

Andrew Marcaccio Senior Counsel

November 23, 2020

VIA ELECTRONIC MAIL

Luly E. Massaro, Commission Clerk Rhode Island Public Utilities Commission 89 Jefferson Boulevard Warwick, RI 02888

RE: Docket 5076 – 2021-2023 Energy Efficiency Program Plan & 2021 Energy Efficiency Plan Responses to PUC Data Requests – Set 1 (with Revised 1-11)

Dear Ms. Massaro:

On behalf of The Narragansett Electric Company d/b/a National Grid ("National Grid" or the "Company"), attached, please find the electronic version of the Company's responses to the Public Utilities Commission's ("PUC") First Set of Data Requests ("Complete Set 1") in the above-referenced docket.¹

Please note that the responses contained within the Complete Set 1 have already been filed with the PUC except for the Company's revised response to PUC 1-11. This revised response to PUC 1-11 starts on Bates page 104 within the Complete Set 1.

The Complete Set 1 contains the Company's redacted response to PUC 1-36 and not the confidential version of the Company's response to PUC 1-36. The confidential version of PUC 1-36 and corresponding Motion for Protective Treatment of Confidential Information was filed by the Company on November 18, 2020.

Thank you for your attention to this filing. If you have any questions or concerns, please do not hesitate to contact me at 401-784-4263.

Sincerely,

Andrew S. Marcaccio

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cc: Docket 5076 Service List John Bell, Division Jon Hagopian, Esq.

1 In addition, the Company will deliver to the Commission six, three-hole punched hard copies of PUC Set 1 with Bates stamp.

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PUC 1-1

Request:

Were there any programs and/or measures that were offered in the 2020 EE Plan that are not being offered in 2021 EE Plan? If yes, please identify and explain.

Response:

Yes. The below measures were discontinued from the programs in 2021. There were no gas measures that were discontinued.

ELECTRIC PROGRAM	MEASURE	RATIONALE
EnergyWise Single Family	Refrigerator Rebate	Bulk of program savings
Electric		from recycling of refrigerator.
		Decided to promote
		refrigerator recycling
		program and reduce
		administrative costs for low
		participation measure.
ENERGY STAR® Lighting	LED Bulb (Reflectors)	Most recent lighting
		evaluations showing LED
		reflectors are transformed.
		Phased out of program
		offerings in 2020.

PUC 1-2

Request:

Referring to the table on Bates 108, please define the following terms:

- a. Non-Participants
- b. Average Customer
- c. Average Participant

Response:

These terms are used in reference to the rate and bill impact analyses included in the filed plans. The terms can be defined as follows.

- a. Non-Participants are customers who do not participate in an energy efficiency program in the year of analysis.
- b. Average Customers are the results averaged between Non-Participants and Average Participants. Average customers are used to estimate the combined bill impacts between EE participants and non-EE participants in order to show the impacts on all customers.
- c. Average Participants include all customers that participated in an energy efficiency program in the year of analysis, by sector in the analysis.

PUC 1-3

Request:

Referring to tables 24-33 on Bates 108-112, please explain how the "Long Term Rate Impacts" and "Long Term Average Change in Bills" are calculated. Please identify any assumptions that are used in each calculation. Please reproduce the bill impacts in tables that show the bill impact for each of the 20 years for each class.

Response:

The rate and bill impacts presented in the plan are calculated using models developed by Synapse Energy Economics.¹ Further detail on the analyses is presented in Attachment 7 of the Annual Plan, beginning on Bates 582. These analyses are designed to assess the impact of the energy efficiency programs in year 1 compared to a counterfactual without energy efficiency.

Long Term Rate Impacts take into account several factors that influence rates. The calculation accounts for factors that exert upward pressure on rates and factors that exert downward pressure on rates over the duration of the savings from energy efficiency. The factors influencing rates are shown in the tables below, with notes about how and when the factor influences rates.

Factors Influencing Electric Rates in the Rate Impact Analysis

Factor Impacting Rates	Description and Influence on Rates	When it applies
Energy efficiency charge	Increases rates in the first year when the rate	First year only
	applies.	
Transmission Lost	Exerts upward pressure on rates as lower sales	Each year of the
Revenues	because of energy efficiency require this	analysis
	component of the rate to increase	
Distribution Lost	Exerts upward pressure on rates as lower sales	Each year of the
Revenues	because of energy efficiency require this	analysis
	component of the rate to increase	

¹ See also, Synapse Energy Economics, Rate and Bill Impact Analysis of Rhode Island Natural Gas Energy Efficiency Programs, October 2, 2020.

http://www.ripuc.ri.gov/eventsactions/docket/5076%20National%20Grid%20EEP%20&%203-Yr%20EEP/1%20Synapse%20RI%20Gas%20RBI%20Report%2010 2 20.pdf

This is the summary report of the revised gas rate and bill impact model that was developed by Synapse Energy Economics. It provides primarily methodological detail for the analysis.

Factor Impacting Rates	Description and Influence on Rates	When it applies
Price Suppression	Exerts downward pressure on rates through	Each year of the
	price suppression effects (DRIPE). Sourced	analysis
	from the AESC 2018 study, as used in RI Test.	
Avoided Transmission	Exerts downward pressure on rates as	Each year of the
	transmission investments are avoided. Sourced	analysis
	from the AESC 2018 study, as used in RI Test.	
Avoided Distribution	Exerts downward pressure on rates as	Each year of the
	distribution investments are avoided. Sourced	analysis
	from the AESC 2018 study, as used in RI Test.	
Avoided Capacity	Exerts downward pressure on rates as capacity	Each year of the
	costs are avoided. Sourced from the AESC	analysis
	2018 study, as used in RI Test.	

Factors Influencing Natural Gas Rates in the Rate Impact Analysis

Factor Impacting Rates	Description and Influence on Rates	When it applies
Energy efficiency charge	Increases rates in the first year when the rate	First year only
	applies	
Lost Revenues	Exerts upward pressure on rates as lower sales	Each year of the
	because of energy efficiency require this	analysis
	component of the rate to increase	
Gas Retail Margin	Exerts downward pressure on rates and	Each year of the
	represents the portion of distribution costs that	analysis
	are avoidable based on reductions in natural	
	gas usage from efficiency measures. These are	
	a component of the AESC 2018 gas avoided	
	costs, and avoided retail margin represents 11	
	percent of the total avoided gas commodity	
	costs for residential customers and 8 percent	
	for commercial customers.	
Price Suppression	Exerts downward pressure on rates through	Each year of the
	price suppression effects (DRIPE). Sourced	analysis
	from the AESC 2018 study, as used in RI Test.	

The models forecast each of these factors for the study period to identify the impact on rates over the long term as the efficiency savings persist into the future. Specifically, the impact of energy efficiency on each component of rates is isolated and analyzed, including both avoided costs and

lost revenue components. The models determine the rate impacts by subtracting the post-efficiency rate from the pre-efficiency rate.

The bill impact factors in the change in rates as detailed above and the change in consumption pre- and post-efficiency due to participants' energy efficiency savings, and compares to the counterfactual where there is no energy efficiency, both in terms of savings and associated surcharge. Pre-energy efficiency consumption is determined based on typical energy consumption of the customers in the sector. Post-energy efficiency consumption reduces consumption by the typical savings for participating customers in the sector, as included in the plan for that year. The participant's new post-energy efficiency annual consumption is multiplied by the post-energy efficiency scenario rates to determine the participant's new annual bill. Lastly, the participant's bill impact is determined by subtracting the new bill from the pre-efficiency bill.

The electric and natural gas models calculate the long term average change in bills in slightly different ways, as detailed below for each.

The electric model calculates the annual change and long term average change in bills by comparing the difference between the base counterfactual where there is no energy efficiency and the modeled scenario where there are rate and bill changes due to the presence of the energy efficiency charge and the subsequent efficiency savings. The long term average is taken over the duration of the energy efficiency savings for that modeled sector.

In contrast, the natural gas model calculates the long term average change by first calculating the levelized average bill pre- and post- efficiency over a 26-year period. Next, the model divides the levelized post-efficiency bill by the levelized pre-efficiency bill to determine the long term average change in the bill. For each of the tables in Attachments 1-3-6 through 1-3-10, the bill change on an annual basis is the post-efficiency annual bill divided by the pre-efficiency annual bill.

For non-participants, because there is no bill savings from energy efficiency their bill impact is the same as the overall rate impact. The average customers category accounts for both participants and non-participants to show the impact to the typical customer in the sector.

The Attachment Tables 1-3-1 through 1-3-10 show the bill impacts for each sector and group (non-participants, average customers, and participants) expanded to show the impact for all modeled years. These tables expand upon Tables 24-33 on Bates 108-112 of the Three-Year Plan filing document.

In preparing this response the Company identified two revisions to the tables as filed in the Three-Year Plan. In Table 29, the average participant change in bills for the Large C&I sector was listed in the table as -1.16%, it should be changed to -2.45%. In Table 31, the non-participants long term average change in bills was listed in the table as 0.29%, it should be changed to 0.49%.

		021 Electric Ra	te and Bill Impact	s - Expanded		
Sector	Long Term Rate Impacts		Change in Bills			
			Non-Participants	Average Customer	Average Participant	
		Long Term Average	0.41%	-0.42%	-0.42%	
		2021	6.04%	4.08%	4.08%	
		2022	-0.41%	-2.24%	-2.25%	
		2023	-0.23%	-2.05%	-2.07%	
		2024	-0.18%	-1.99%	-2.02%	
		2025	-0.38%	-0.38%	-0.38%	
		2026	-0.39%	-0.39%	-0.39%	
		2027	-0.33%	-0.33%	-0.33%	
		2028	-0.28%	-0.28%	-0.28%	
5	0.440/	2029	-0.18%	-0.18%	-0.18%	
Residential	0.41%	2030	0.00%	0.00%	0.00%	
		2031	0.00%	0.00%	0.00%	
		2032	0.00%	0.00%	0.00%	
		2033	0.00%	0.00%	0.00%	
		2034	0.00%	0.00%	0.00%	
		2035	0.00%	0.00%	0.00%	
		2036	0.00%	0.00%	0.00%	
		2037	0.00%	0.00%	0.00%	
		2038	0.00%	0.00%	0.00%	
		2039	0.00%	0.00%	0.00%	
		2040	0.00%	0.00%	0.00%	
		Long Term Average	1.23%	-2.46%	-2.54%	
		2021	6.95%	2.97%	2.97%	
		2022	0.33%	-3.39%	-3.41%	
		2023	0.49%	-3.22%	-3.25%	
		2024	0.51%	-3.18%	-3.23%	
		2025	0.53%	-3.14%	-3.21%	
		2026	0.50%	-3.15%	-3.24%	
		2027	0.53%	-3.10%	-3.21%	
		2028	0.60%	-3.02%	-3.15%	
Incomo Flicible	1 220/	2029	0.68%	-2.92%	-3.07%	
Income Eligible	1.23%	2030	0.00%	0.00%	0.00%	
		2031	0.00%	0.00%	0.00%	

Sector	Long Term Rate Impacts	L Change in Bills			
	·		Non-Participants	Average Customer	Average Participant
		2032	0.00%	0.00%	0.00%
		2033	0.00%	0.00%	0.00%
		2034	0.00%	0.00%	0.00%
		2035	0.00%	0.00%	0.00%
		2036	0.00%	0.00%	0.00%
		2037	0.00%	0.00%	0.00%
		2038	0.00%	0.00%	0.00%
		2039	0.00%	0.00%	0.00%
		2040	0.00%	0.00%	0.00%
		Long Term	0.37%	-0.81%	-8.88%
		Average	0.57 /0	-0.01/0	-0.0070
		2021	6.50%	5.25%	-5.10%
		2022	-0.59%	-1.75%	-11.41%
		2023	-0.39%	-1.54%	-11.24%
		2024	-0.33%	-1.48%	-11.18%
		2025	-0.30%	-1.45%	-11.16%
		2026	-0.31%	-1.45%	-11.17%
		2027	-0.24%	-1.38%	-11.11%
		2028	-0.18%	-1.31%	-11.05%
Small C&I	0.37%	2029	-0.06%	-1.18%	-10.94%
Siliali Cai	0.5770	2030	0.16%	-0.96%	-10.75%
		2031	0.18%	-0.94%	-10.73%
		2032	0.18%	0.18%	0.18%
		2033	0.20%	0.20%	0.20%
		2034	0.00%	0.00%	0.00%
		2035	0.00%	0.00%	0.00%
		2036	0.00%	0.00%	0.00%
		2037	0.00%	0.00%	0.00%
		2038	0.00%	0.00%	0.00%
		2039	0.00%	0.00%	0.00%
		2040	0.00%	0.00%	0.00%
		Long Term	0.03%	-1.66%	-9.02%
		Average			
		2021	8.83%	6.97%	-1.03%
		2022	-1.41%		-10.34%
		2023	-1.10%	-2.76%	-10.05%
		2024	-0.98%	-2.64%	-9.94%
		2025	-0.94%	-2.59%	-9.91%
		2026	-0.95%	-2.59%	-9.91%
		2027	-0.82%		-9.80%
		2028	-0.75%	-2.39%	-9.74%

Sector	Long Term	Change in Bills			
	Rate Impacts				
			Non-Participants	Average	Average
				Customer	Participant
Medium C&I	0.03%	2029	-0.56%	-2.19%	-9.56%
Wicalam Car	0.0370	2030	-0.24%	-1.87%	-9.27%
		2031	-0.23%	-1.85%	-9.26%
		2032	-0.22%	-1.83%	-9.25%
		2033	-0.20%	-1.80%	-9.23%
		2034	0.00%	0.00%	0.00%
		2035	0.00%	0.00%	0.00%
		2036	0.00%	0.00%	0.00%
		2037	0.00%	0.00%	0.00%
		2038	0.00%	0.00%	0.00%
		2039	0.00%	0.00%	0.00%
		2040	0.00%	0.00%	0.00%
		Long Term Average	-0.16%	-2.72%	-4.44%
		2021	9.08%	6.21%	4.41%
		2022	-1.75%	-4.32%	-5.96%
		2023	-1.39%	-3.96%	-5.62%
		2024	-1.26%	-3.82%	-5.49%
		2025	-1.22%	-3.77%	-5.45%
		2026	-1.22%	-3.76%	-5.46%
		2027	-1.09%	-3.61%	-5.33%
		2028	-1.00%	-3.52%	-5.24%
Laura CO I	0.460/	2029	-0.79%	-3.30%	-5.05%
Large C&I	-0.16%	2030	-0.44%	-2.95%	-4.71%
		2031	-0.42%	-2.92%	-4.69%
		2032	-0.41%	-2.89%	-4.68%
		2033	-0.37%	-2.84%	-4.64%
		2034	0.00%	0.00%	0.00%
		2035	0.00%	0.00%	0.00%
		2036	0.00%		0.00%
		2037	0.00%	0.00%	0.00%
		2038	0.00%		
		2039	0.00%		0.00%
		2040	0.00%		

Table 25: 2022 Illustrative Base Case Electric Rate and Bill Impacts - Expanded

Sector	Long Term Rate Impacts	tive Base Case Electric Rate and Bill Impacts - Expanded Change in Bills			
	Nate impacts		Non-Participants	Average Customer	Average Participant
		Long Term Average	0.60%	0.06%	-0.03%
		2022	8.70%	7.10%	6.84%
		2023	-0.30%	-1.75%	-2.00%
		2024	-0.24%	-1.69%	-1.949
		2025	-0.21%	-1.65%	-1.919
		2026	-0.39%	-0.39%	-0.39%
		2027	-0.32%	-0.32%	-0.329
		2028	-0.27%	-0.27%	-0.27%
		2029	-0.17%	-0.17%	-0.17%
		2030	-0.11%	-0.11%	-0.119
Residential	0.60%	2031	-0.06%		-0.069
		2032	-0.03%	-0.03%	-0.039
		2033	0.00%	0.00%	0.009
		2034	0.00%	0.00%	
		2035	0.00%	0.00%	0.009
		2036	0.00%	0.00%	
		2037	0.00%		0.009
		2038	0.00%	0.00%	0.009
		2039	0.00%	0.00%	0.009
		2040	0.00%	0.00%	0.009
		2041	0.00%	0.00%	0.009
		Long Term Average	1.22%	-1.48%	-1.63%
		2022	9.55%	5.91%	5.80%
		2023	0.28%	-3.03%	-3.169
		2024	0.31%		
		2025	0.34%		-3.099
		2026	0.32%	-2.94%	-3.119
		2027	0.37%	-2.89%	-3.079
		2028	0.43%	-2.81%	-3.019
		2029	0.52%	-2.70%	-2.929
		2030	0.60%	-2.61%	-2.849
Income Eligible	1.22%	2031	0.67%	0.67%	0.679
		2032	-0.03%		

Sector	Long Term				
	Rate Impacts	Change in Bills			
			Non-Participants	Average	Average
			·	Customer	Participant
		2033	0.00%	0.00%	0.009
		2034	0.00%		0.009
		2035	0.00%		0.009
		2036	0.00%		0.00
		2037	0.00%		
		2038	0.00%		0.00
		2039	0.00%		0.00
		2040	0.00%		0.00
		2041	0.00%	0.00%	0.00
		Long Term Average	0.65%	-0.70%	-8.81%
		2022	9.51%	8.01%	-3.58
		2023	-0.36%		-12.28
		2024	-0.30%	-1.65%	-12.22
		2025	-0.26%	-1.61%	-12.19
		2026	-0.27%		-12.19
		2027	-0.20%	-1.53%	-12.13
		2028	-0.13%	-1.46%	-12.07
		2029	-0.01%	-1.34%	-11.97
6 11 60 1	0.650/	2030	0.08%		-11.89
Small C&I	0.65%	2031	0.16%		-11.82
		2032	0.20%		-11.78
		2033	0.24%	0.24%	0.24
		2034	0.26%	0.26%	0.26
		2035	0.26%	0.26%	0.26
		2036	0.00%	0.00%	0.00
		2037	0.00%	0.00%	0.00
		2038	0.00%	0.00%	
		2039	0.00%	0.00%	0.00
		2040	0.00%	0.00%	0.00
		2041	0.00%	0.00%	0.00
		Long Term	0.40%	-1.60%	-8.92%
		Average	0.40%	-1.60%	-8.927
		2022	13.13%	10.83%	1.83
		2023	-1.11%	-3.10%	-10.98
		2024	-0.98%	-2.96%	-10.87
		2025	-0.93%	-2.90%	-10.82
		2026	-0.92%	-2.89%	-10.82
		2027	-0.80%	-2.76%	-10.71
		2028	-0.73%	-2.68%	-10.649
		2029	-0.55%		

Sector	Long Term		Chang	ge in Bills	
	Rate Impacts		Non-Participants	Average Customer	Average Participant
		2030	-0.43%	-2.36%	-10.37%
Medium C&I	0.40%	2031	-0.33%	-2.26%	-10.28%
		2032	-0.27%	-2.19%	-10.23%
		2033	-0.20%	-2.11%	-10.17%
		2034	-0.18%	-2.09%	-10.15%
		2035	-0.17%	-0.17%	-0.17%
		2036	0.00%	0.00%	0.00%
		2037	0.00%	0.00%	0.00%
		2038	0.00%	0.00%	0.00%
		2039	0.00%	0.00%	0.00%
		2040	0.00%	0.00%	0.00%
		2041	0.00%	0.00%	0.00%
		Long Term Average	0.31%	-2.58%	-4.23%
		2022	13.76%	10.39%	8.61%
		2023	-1.44%	-4.34%	-5.89%
		2024	-1.28%	-4.17%	-5.75%
		2025	-1.23%	-4.10%	-5.69%
		2026	-1.22%	-4.09%	-5.69%
		2027	-1.08%	-3.93%	-5.55%
		2028	-0.99%	-3.83%	-5.47%
		2029	-0.79%	-3.62%	-5.28%
Large C&I	0.31%	2030	-0.65%	-3.47%	-5.14%
Large Car	0.51%	2031	-0.54%	-3.35%	-5.03%
		2032	-0.47%	-3.27%	-4.97%
		2033	-0.38%	-3.17%	-4.89%
		2034	-0.35%	-3.13%	-4.86%
		2035	0.00%	0.00%	0.00%
		2036	0.00%	0.00%	0.00%
		2037	0.00%	0.00%	0.00%
		2038	0.00%	0.00%	0.00%
		2039	0.00%	0.00%	0.00%
		2040	0.00%	0.00%	0.00%
		2041	0.00%	0.00%	0.00%

Table 26	Table 26: 2022 Illustrative High Scenario Electric Rate and Bill Impacts - Expanded							
Sector	Long Term Rate Impacts		Change in Bills					
	Rate impacts		Average Avera					
			Non-Participants	Customer	Average			
		Long Term		Customer	Participant			
		Average	0.66%	-0.03%	-0.14%			
		2022	9.23%	7.60%	7.35%			
		2023	-0.31%	-1.80%	-2.03%			
		2024	-0.25%	-1.73%	-1.97%			
		2025	-0.22%	-1.69%	-1.94%			
		2026	-0.23%	-1.69%	-1.95%			
		2027	-0.34%	-0.34%	-0.34%			
		2028	-0.28%	-0.28%	-0.28%			
		2029	-0.18%	-0.18%	-0.18%			
		2030	-0.11%	-0.11%	-0.119			
Residential	0.66%	2031	-0.06%	-0.06%	-0.06%			
		2032	-0.03%	-0.03%	-0.039			
		2033	0.00%	0.00%	0.009			
		2034	0.00%	0.00%	0.009			
		2035	0.00%	0.00%	0.00%			
		2036	0.00%	0.00%	0.00%			
		2037	0.00%	0.00%	0.009			
		2038	0.00%	0.00%	0.00%			
		2039	0.00%	0.00%	0.009			
		2040	0.00%	0.00%	0.009			
		2041	0.00%	0.00%	0.00%			
		Long Term Average	1.28%	-1.52%	-1.63%			
		2022	10.12%	6.33%	6.26%			
		2023	0.29%	-3.15%	-3.23%			
		2024	0.32%	-3.10%	-3.19%			
		2025	0.35%	-3.05%	-3.16%			
		2026	0.33%	-3.05%	-3.189			
		2027	0.37%	-2.99%	-3.149			
		2028	0.44%	-2.91%	-3.089			
		2029	0.54%	-2.80%	-2.989			
Incomo Flicible	1 200/	2030	0.62%	-2.70%	-2.909			
Income Eligible	1.28%	2031	0.70%	0.70%	0.709			
		2032	-0.03%	-0.03%	-0.039			

Sector	Long Term Rate Impacts		Chang	ge in Bills	
			Non-Participants	Average Customer	Average Participant
		2033	0.00%	0.00%	0.00%
		2034	0.00%	0.00%	0.00%
		2035	0.00%	0.00%	0.00%
		2036	0.00%	0.00%	0.00%
		2037	0.00%	0.00%	0.00%
		2038	0.00%	0.00%	0.00%
		2039	0.00%	0.00%	0.00%
		2040	0.00%	0.00%	0.00%
		2041	0.00%	0.00%	0.00%
		Long Term	0.69%	-0.72%	-8.73%
		Average	0.0570	-0.72/0	-0.75/0
		2022	10.10%	8.52%	-3.00%
		2023	-0.38%	-1.79%	-12.23%
		2024	-0.31%	-1.72%	-12.17%
		2025	-0.27%	-1.68%	-12.14%
		2026	-0.28%	-1.68%	-12.14%
		2027	-0.20%	-1.60%	-12.08%
		2028	-0.14%	-1.52%	-12.02%
		2029	-0.01%	-1.39%	-11.91%
Small C&I	0.69%	2030	0.08%	-1.29%	-11.82%
Siliali Cai	0.0376	2031	0.16%	-1.21%	-11.75%
		2032	0.20%	-1.16%	-11.72%
		2033	0.25%	0.25%	0.25%
		2034	0.27%	0.27%	0.27%
		2035	0.27%	0.27%	0.27%
		2036	0.00%	0.00%	0.00%
		2037	0.00%	0.00%	0.00%
		2038	0.00%	0.00%	0.00%
		2039	0.00%	0.00%	0.00%
		2040	0.00%	0.00%	0.00%
		2041	0.00%	0.00%	0.00%
		Long Term Average	0.43%	-1.65%	-8.84%
		2022	13.94%	11.54%	2.62%
		2023	-1.15%		-10.98%
		2024	-1.02%		
		2025	-0.97%		
		2026	-0.97%		
		2027	-0.84%	-2.88%	-10.69%
		2028	-0.76%		-10.62%
		2029	-0.57%		

Sector	Long Term Rate Impacts		Chang	ge in Bills	
	Rate IIIpacts		Non-Participants	Average Customer	Average Participant
		2030	-0.45%	-2.47%	-10.34%
Medium C&I	0.43%	2031	-0.35%	-2.36%	-10.25%
		2032	-0.28%	-2.28%	-10.19%
		2033	-0.21%	-2.21%	-10.13%
		2034	-0.19%	-2.18%	-10.11%
		2035	-0.18%	-0.18%	-0.18%
		2036	0.00%	0.00%	0.00%
		2037	0.00%	0.00%	0.00%
		2038	0.00%	0.00%	0.00%
		2039	0.00%	0.00%	0.00%
		2040	0.00%	0.00%	0.00%
		2041	0.00%	0.00%	0.00%
		Long Term Average	0.34%	-2.67%	-4.18%
		2022	14.61%	11.08%	9.45%
		2023	-1.50%	-4.52%	-5.93%
		2024	-1.34%	-4.35%	-5.78%
		2025	-1.28%	-4.28%	-5.72%
		2026	-1.28%	-4.26%	-5.72%
		2027	-1.13%	-4.11%	-5.58%
		2028	-1.04%	-4.00%	-5.49%
		2029	-0.83%	-3.78%	-5.29%
Large C&I	0.34%	2030	-0.68%	-3.63%	-5.15%
Large CQ1	0.3470	2031	-0.57%	-3.50%	-5.04%
		2032	-0.49%	-3.41%	-4.97%
		2033	-0.40%	-3.31%	-4.88%
		2034	-0.37%	-3.27%	-4.86%
		2035	0.00%	0.00%	0.00%
		2036	0.00%	0.00%	0.00%
		2037	0.00%	0.00%	0.00%
		2038	0.00%	0.00%	0.00%
		2039	0.00%	0.00%	0.00%
		2040	0.00%	0.00%	0.00%
	[2041	0.00%	0.00%	0.00%

Table 27: 2023 Illustrative Base Case Electric Rate and Bill Impacts - Expanded

Sector	Long Term		Electric Rate and	<u> </u>		
Jector	Rate Impacts	Change in Bills				
			Non-Participants Average			
			Non-Farticipants	Customer	Participant	
		Long Term	0.74%	0.03%	-0.06%	
		Average	0.7470	0.0370	-0.0070	
		2023	9.82%	8.12%	7.93%	
		2024	-0.30%	-1.84%	-2.02%	
		2025	-0.26%	-1.79%	-1.98%	
		2026	-0.26%	-1.78%	-1.98%	
		2027	-0.19%	-1.70%	-1.90%	
		2028	-0.30%	-0.30%	-0.30%	
		2029	-0.19%	-0.19%	-0.19%	
		2030	-0.12%	-0.12%	-0.12%	
Dasidantial	0.740/	2031	-0.06%	-0.06%	-0.06%	
Residential	0.74%	2032	-0.03%	-0.03%	-0.03%	
		2033	-0.01%	-0.01%	-0.01%	
		2034	0.00%	0.00%	0.00%	
		2035	0.00%	0.00%	0.00%	
		2036	0.00%	0.00%	0.00%	
		2037	0.00%	0.00%	0.00%	
		2038	0.00%	0.00%	0.00%	
		2039	0.00%	0.00%	0.00%	
		2040	0.00%	0.00%	0.00%	
		2041	0.00%	0.00%	0.00%	
		2042	0.00%	0.00%	0.00%	
		Long Term Average	1.42%	-1.37%	-1.48%	
		2023	10.70%	6.92%	6.84%	
		2024	0.27%	-3.15%	-3.23%	
		2025	0.30%			
		2026	0.29%		-3.21%	
		2027	0.34%	-3.02%	-3.16%	
		2028	0.41%		-3.08%	
		2029	0.52%	-2.82%	-2.98%	
		2030	0.61%		-2.90%	
		2031	0.68%		-2.83%	
Income Eligible	1.42%	2032	0.71%		0.71%	
		2033	0.71%			

Sector	Long Term Rate Impacts		Chang	e in Bills	
			Non-Participants	Average Customer	Average Participant
		2034	0.00%	0.00%	0.00%
		2035	0.00%	0.00%	0.00%
		2036	0.00%	0.00%	0.00%
		2037	0.00%	0.00%	0.00%
		2038	0.00%	0.00%	0.00%
		2039	0.00%	0.00%	0.00%
		2040	0.00%	0.00%	0.00%
		2041	0.00%	0.00%	0.00%
		2042	0.00%	0.00%	0.00%
		Long Term	0.81%	-0.68%	-10.69%
		Average 2023	10.909/	9.11%	E 270/
		2023	10.80% -0.32%		
		2024	-0.32%		
		2025	-0.28%		
		2020	-0.28%		
		2027	-0.12%		
		2029	0.01%		
		2030	0.11%		
		2031	0.19%		
Small C&I	0.81%	2032	0.24%		
		2033	0.27%		
		2034	0.30%		
		2035	0.30%		
		2036	0.31%		0.31%
		2037	0.00%	0.00%	0.00%
		2038	0.00%	0.00%	0.00%
		2039	0.00%	0.00%	0.00%
		2040	0.00%	0.00%	0.00%
		2041	0.00%	0.00%	0.00%
		2042	0.00%	0.00%	0.00%
		Long Term	0.56%	-1.67%	-10.95%
		Average			
		2023	14.92%		
		2024	-1.08%		
		2025	-1.01%		
		2026	-1.00%		
		2027	-0.86%		
		2028	-0.78%		
		2029	-0.58%		
		2030	-0.45%	-2.65%	-12.71%

Sector	Long Term	Change in Bills			
	Rate Impacts		Non-Participants	Average	Average
			•	Customer	Participant
Medium C&I	0.56%	2031	-0.34%	-2.53%	-12.62%
		2032	-0.28%		
		2033	-0.22%	-2.39%	-12.51%
		2034	-0.19%		
		2035	-0.17%		-12.47%
		2036	-0.16%		-0.16%
		2037	0.00%	0.00%	0.00%
		2038	0.00%	0.00%	0.00%
		2039	0.00%	0.00%	0.00%
		2040	0.00%	0.00%	0.00%
		2041	0.00%	0.00%	0.00%
		2042	0.00%	0.00%	0.00%
		Long Term			
		Average	0.59%	-2.83%	-4.68%
		2023	15.79%	12.11%	9.64%
		2024	-1.42%	-4.54%	-6.66%
		2025	-1.34%	-4.44%	-6.58%
		2026	-1.32%	-4.42%	-6.57%
		2027	-1.16%	-4.24%	-6.41%
		2028	-1.06%	-4.13%	-6.32%
		2029	-0.84%	-3.90%	-6.11%
		2030	-0.69%	-3.74%	-5.96%
Lawra COL	0.51%	2031	-0.57%	-3.60%	-5.85%
Large C&I	0.51%	2032	-0.49%	-3.51%	-5.77%
		2033	-0.42%	-3.43%	-5.71%
		2034	-0.37%	-3.37%	-5.66%
		2035	-0.34%	-3.32%	-5.63%
		2036	-0.32%	-0.32%	-0.32%
		2037	0.00%		
		2038	0.00%		
		2039	0.00%		
		2040	0.00%		
		2041	0.00%		
		2042	0.00%		

Table 28: 2023 Illustrative High Scenario Electric Rate and Bill Impacts - Expanded

Sector	Long Term Rate Impacts		Change in Bills				
			Non-Participants	Average Customer	Average Participant		
		Long Term Average	0.84%	0.09%	0.02%		
		2023	11.14%	9.33%	9.18%		
		2024	-0.34%	-1.95%	-2.09%		
		2025	-0.29%	-1.90%	-2.059		
		2026	-0.29%	-1.89%	-2.059		
		2027	-0.21%	-1.80%	-1.979		
		2028	-0.33%	-0.33%	-0.339		
		2029	-0.20%	-0.20%	-0.209		
		2030	-0.13%	-0.13%	-0.139		
5	0.040/	2031	-0.07%	-0.07%			
Residential	0.84%	2032	-0.03%	-0.03%	-0.039		
		2033	-0.01%	-0.01%	-0.019		
		2034	0.00%	0.00%			
		2035	0.00%	0.00%			
		2036	0.00%	0.00%			
		2037	0.00%	0.00%	0.00		
		2038	0.00%	0.00%			
		2039	0.00%	0.00%			
		2040	0.00%	0.00%			
		2041	0.00%	0.00%			
		2042	0.00%	0.00%			
		Long Term Average	1.57%	-1.47%	-1.53%		
		2023	12.11%	7.93%	7.93		
		2024	0.28%	-3.44%	-3.46		
		2025	0.32%	-3.38%	-3.42		
		2026	0.30%	-3.38%	-3.43		
		2027	0.36%	-3.30%	-3.38		
		2028	0.44%	-3.21%	-3.30		
		2029	0.56%	-3.08%			
		2030	0.65%	-2.97%			
	4.570/	2031	0.74%	-2.87%	-3.02		
Income Eligible	1.57%	2032	0.77%	0.77%			
		2033	0.79%				

Sector	Long Term Rate Impacts	Change in Bills				
			Non-Participants	Average Customer	Average Participant	
		2034	0.00%	0.00%	0.00%	
		2035	0.00%	0.00%	0.00%	
		2036	0.00%	0.00%	0.00%	
		2037	0.00%	0.00%	0.00%	
		2038	0.00%	0.00%	0.00%	
		2039	0.00%	0.00%	0.00%	
		2040	0.00%	0.00%	0.00%	
		2041	0.00%	0.00%	0.00%	
		2042	0.00%	0.00%	0.00%	
		Long Term	0.019/	-0.72%	-10.44%	
		Average	0.91%	-0.72%	-10.44%	
		2023	12.25%	10.37%	-3.80%	
		2024	-0.36%	-2.01%	-14.60%	
		2025	-0.31%	-1.96%	-14.56%	
		2026	-0.31%	-1.95%	-14.56%	
		2027	-0.22%	-1.85%	-14.48%	
		2028	-0.14%	-1.77%	-14.41%	
		2029	0.00%	-1.62%	-14.29%	
		2030	0.11%	-1.50%	-14.19%	
Small C&I	0.019/	2031	0.20%	-1.40%	-14.12%	
Siliali Cal	0.91%	2032	0.25%	-1.35%	-14.07%	
		2033	0.29%	-1.30%	-14.049	
		2034	0.33%	0.33%	0.33%	
		2035	0.33%	0.33%	0.33%	
		2036	0.34%	0.34%	0.349	
		2037	0.00%	0.00%	0.00%	
		2038	0.00%	0.00%	0.00%	
		2039	0.00%	0.00%	0.00%	
		2040	0.00%	0.00%	0.00%	
		2041	0.00%	0.00%	0.00%	
		2042	0.00%	0.00%	0.00%	
		Long Term	0.649/	1 900/	10 710/	
		Average	0.64%	-1.80%	-10.71%	
		2023	16.95%	14.01%	2.75%	
		2024	-1.19%	-3.66%	-13.19%	
		2025	-1.12%	-3.58%	-13.13%	
		2026	-1.11%	-3.56%	-13.12%	
		2027	-0.96%	-3.39%	-12.98%	
		2028	-0.87%	-3.30%	-12.91%	
		2029	-0.65%	-3.07%	-12.71%	
		2030	-0.51%	-2.92%		

Sector	Long Term		Chang	ge in Bills	
	Rate Impacts		Non-Participants	Average Customer	Average Participant
		2021	0.200/		•
Medium C&I	0.64%	2031	-0.39%	-2.79%	-12.49%
		2032 2033	-0.32% -0.25%	-2.71% -2.64%	-12.42% -12.37%
		2033	-0.21%	-2.59%	-12.33%
		2034	-0.21%	-2.55%	-12.31%
		2036	-0.19%	-0.18%	-0.18%
		2030	0.00%	0.00%	0.00%
		2037	0.00%	0.00%	
		2039	0.00%	0.00%	0.00%
		2040	0.00%	0.00%	0.00%
		2041	0.00%	0.00%	0.00%
		2042	0.00%	0.00%	0.00%
		Long Term Average	0.59%	-2.83%	-4.68%
		2023	17.93%	13.82%	11.76%
		2024	-1.58%	-5.00%	-6.73%
		2025	-1.49%	-4.89%	-6.65%
		2026	-1.48%	-4.87%	-6.64%
		2027	-1.30%	-4.68%	-6.47%
		2028	-1.19%	-4.56%	-6.37%
		2029	-0.95%	-4.30%	-6.13%
		2030	-0.78%	-4.12%	-5.97%
Laura C01	0.500/	2031	-0.64%	-3.98%	-5.85%
Large C&I	0.59%	2032	-0.56%	-3.88%	-5.76%
		2033	-0.48%	-3.78%	-5.69%
		2034	-0.42%	-3.71%	-5.64%
		2035	-0.39%	-3.66%	-5.61%
		2036	-0.37%	-0.37%	-0.37%
		2037	0.00%	0.00%	0.00%
		2038	0.00%	0.00%	0.00%
		2039	0.00%	0.00%	0.00%
		2040	0.00%	0.00%	0.00%
		2041	0.00%	0.00%	0.00%
		2042	0.00%	0.00%	0.00%

Table 29: 2021 Natural Gas Rate and Bill Impacts - Expanded

		I Ivaturai Gas	Rate and Bill Impa Chang	ge in Bills	
Sector	Long Term		Non-	Average	Average
	Rate Impacts		Participants	Customer	Participant
		Long Term	·		·
		Average	0.02%	0.00%	-0.01%
		2021	0.38%	-0.07%	-0.24%
		2022	0.00%		
		2023	0.00%		
		2024	0.00%		
		2025	0.00%	0.00%	0.00%
		2026	0.00%		
		2027	0.00%		
		2028	0.00%		
		2029	0.00%	0.00%	0.00%
		2030	0.00%	0.00%	0.00%
		2031	0.00%	0.00%	0.00%
Residential		2032	0.00%	0.00%	0.00%
(Model 1: HERs	0.0%	2033	0.00%	0.00%	0.00%
only)		2034	0.00%	0.00%	0.00%
		2035	0.00%	0.00%	0.00%
		2036	0.00%	0.00%	0.00%
		2037	0.00%	0.00%	0.00%
		2038	0.00%	0.00%	0.00%
		2039	0.00%	0.00%	0.00%
		2040	0.00%	0.00%	0.00%
		2041	0.00%	0.00%	0.00%
		2042	0.00%	0.00%	0.00%
		2043	0.00%	0.00%	0.00%
		2044	0.00%	0.00%	0.00%
		2045	0.00%	0.00%	0.00%
		2046	0.00%	0.00%	0.00%
		2047	0.00%	0.00%	0.00%
		Long Term	0.41%	0.15%	-5.29%
		Average	0.41%	0.15%	-3.29/0
		2021	7.42%	7.04%	-0.28%
		2022	0.14%	-0.22%	-6.96%
		2023	0.13%	-0.22%	-6.96%
		2024	0.13%	-0.21%	-6.96%
		2025	0.13%	-0.21%	-6.97%

	.		Chang	ge in Bills	
Sector	Long Term		Non-	Average	Average
	Rate Impacts		Participants	Customer	Participant
		2026	0.12%	-0.21%	-6.97%
		2027	0.12%	-0.21%	-6.97%
		2028	0.12%	-0.21%	-6.97%
		2029	0.12%	-0.20%	-6.97%
		2030	0.12%	-0.20%	-6.97%
Docidontial		2031	0.11%	-0.20%	-6.98%
Residential		2032	0.11%	-0.20%	-6.98%
(Model 2: All	0.4%	2033	0.11%	-0.20%	-6.98%
Programs Except		2034	0.11%	-0.20%	-6.98%
HERs)		2035	0.10%	-0.20%	-6.99%
		2036	0.10%	-0.19%	-6.99%
		2037	0.10%	-0.19%	-6.99%
		2038	0.04%	-0.07%	-2.63%
		2039	0.04%	-0.07%	-2.63%
		2040	0.03%	-0.06%	-2.22%
		2041	0.03%	-0.06%	-2.22%
		2042	0.03%	-0.06%	-2.22%
		2043	0.03%	-0.06%	-2.22%
		2044	0.00%	0.00%	0.00%
		2045	0.00%	0.00%	0.00%
		2046	0.00%	0.00%	0.00%
		2047	0.00%	0.00%	0.00%
		Long Term	0.439/	0.159/	0.039/
		Average	0.43%	0.15%	0.03%
		2021	7.80%	6.93%	6.67%
		2022	0.14%	-0.22%	-0.33%
		2023	0.13%	-0.22%	-0.33%
		2024	0.13%	-0.21%	-0.33%
		2025	0.13%	-0.21%	-0.34%
		2026	0.12%	-0.21%	-0.34%
		2027	0.12%	-0.21%	-0.34%
		2028	0.12%	-0.21%	-0.34%
		2029	0.12%	-0.20%	-0.34%
		2030	0.12%	-0.20%	-0.35%
		2031	0.11%	-0.20%	-0.35%
Residential		2032	0.11%	-0.20%	-0.35%
(Model 3: All	0.4%	2033	0.11%	-0.20%	-0.35%
Programs)		2034	0.11%	-0.20%	-0.36%
		2035	0.10%	-0.20%	-0.36%
		2036	0.10%	-0.19%	-0.36%
		2037	0.10%	-0.19%	-0.36%
		2038	0.04%	-0.07%	-0.14%

			Chang	ge in Bills	
Sector	Long Term		Non- Average		Average
	Rate Impacts		Participants	Customer	Participant
		2039	0.04%	-0.07%	-0.14%
		2040	0.03%	-0.06%	-0.12%
		2041	0.03%	-0.06%	-0.12%
		2042	0.03%	-0.06%	-0.12%
		2043	0.03%	-0.06%	-0.12%
		2044	0.00%	0.00%	0.00%
		2045	0.00%	0.00%	0.00%
		2046	0.00%	0.00%	0.00%
		2047	0.00%	0.00%	0.00%
		Long Term	0.75%	0.169/	A A00/
		Average	0.75%	-0.16%	-4.48%
		2021	8.16%	6.75%	1.76%
		2022	0.57%	-0.69%	-5.31%
		2023	0.55%	-0.68%	-5.33%
		2024	0.53%	-0.66%	-5.34%
		2025	0.53%	-0.64%	-5.35%
		2026	0.52%	-0.62%	-5.36%
		2027	0.51%	-0.60%	-5.36%
		2028	0.50%	-0.58%	-5.37%
		2029	0.49%	-0.56%	-5.38%
		2030	0.49%	-0.54%	-5.39%
		2031	0.47%	-0.53%	-5.40%
	0.7%	2032	0.46%	-0.52%	-5.41%
Income Eligible		2033	0.45%	-0.50%	-5.42%
		2034	0.44%	-0.49%	-5.43%
		2035	0.43%	-0.48%	-5.44%
		2036	0.42%	-0.47%	-5.45%
		2037	0.40%	-0.46%	-5.46%
		2038	0.39%	-0.44%	-5.47%
		2039	0.38%	-0.43%	-5.48%
		2040	0.37%		-5.49%
		2041	0.21%	-0.24%	-3.20%
		2042	0.21%	-0.23%	-3.21%
		2043	0.00%	0.00%	0.00%
		2044	0.00%	0.00%	0.00%
		2045	0.00%	0.00%	0.00%
		2046	0.00%	0.00%	0.00%
		2047	0.00%	0.00%	0.00%
		Long Term Average	0.25%	0.19%	-7.12%
		2021	5.42%	5.25%	-12.80%
		2022	0.05%	-0.11%	-17.04%

	Laura Tanna		Chang	ge in Bills	
Sector	Long Term		Non-	Average	Average
	Rate Impacts		Participants	Customer	Participant
		2023	0.05%	-0.11%	-17.04%
		2024	0.05%	-0.11%	-17.04%
		2025	0.05%	-0.11%	-17.04%
		2026	0.05%	-0.11%	-17.04%
		2027	0.05%	-0.11%	-17.04%
		2028	0.04%	-0.11%	-17.05%
		2029	0.04%	-0.11%	-17.05%
		2030	0.04%	-0.11%	-17.05%
		2031	0.00%	0.00%	0.00%
		2032	0.00%	0.00%	0.00%
Small C&I	0.3%	2033	0.00%	0.00%	0.00%
		2034	0.00%	0.00%	0.00%
		2035	0.00%	0.00%	0.00%
		2036	0.00%	0.00%	0.00%
		2037	0.00%	0.00%	0.00%
		2038	0.00%	0.00%	0.00%
		2039	0.00%	0.00%	0.00%
		2040	0.00%	0.00%	0.00%
		2041	0.00%	0.00%	0.00%
		2042	0.00%	0.00%	0.00%
		2043	0.00%	0.00%	0.00%
		2044	0.00%	0.00%	0.00%
		2045	0.00%	0.00%	0.00%
		2046	0.00%	0.00%	0.00%
		2047	0.00%	0.00%	0.00%
		Long Term	0.419/	0.00%	2.459/
		Average	0.41%	0.00%	-2.45%
		2021	8.16%	6.99%	0.34%
		2022	0.15%	-0.89%	-6.95%
		2023	0.15%	-0.89%	-6.96%
		2024	0.14%	-0.88%	-6.96%
		2025	0.14%	-0.87%	-6.96%
		2026	0.14%	-0.87%	-6.96%
		2027	0.14%	-0.86%	-6.97%
		2028	0.14%	-0.85%	-6.97%
		2029	0.03%	-0.13%	-1.14%
		2030	0.03%	-0.13%	-1.14%
		2031	0.03%	-0.13%	-1.14%
		2032	0.03%	-0.13%	-1.15%
Large C&I	0.4%	2033	0.03%	-0.13%	-1.15%
		2034	0.03%	-0.13%	-1.15%
		2035	0.03%	-0.13%	-1.15%

Sector	Long Term		Chang	ge in Bills	
			Non-	Average	Average
	Rate Impacts		Participants	Customer	Participant
		2036	0.02%	-0.10%	-0.86%
		2037	0.00%	0.00%	0.00%
		2038	0.00%	0.00%	0.00%
		2039	0.00%	0.00%	0.00%
		2040	0.00%	0.00%	0.00%
		2041	0.00%	0.00%	0.00%
		2042	0.00%	0.00%	0.00%
		2043	0.00%	0.00%	0.00%
		2044	0.00%	0.00%	0.00%
		2045	0.00%	0.00%	0.00%
		2046	0.00%	0.00%	0.00%
		2047	0.00%	0.00%	0.00%

Table 30: 2022 Illustrative Base Case Natural Gas Rate and Bill Impacts - Expanded

Tuble 30		Te Buse Guse II	atural Gas Rate ar Chang	ge in Bills	хранаса
Sector	Long Term		Non-	Average	Average
	Rate Impacts		Participants	Customer	Participant
		Long Term Average	0.02%	0.00%	-0.01%
		2022	0.40%	-0.04%	-0.22%
		2023	0.00%	0.00%	0.00%
		2024	0.00%	0.00%	0.00%
		2025	0.00%	0.00%	0.00%
		2026	0.00%	0.00%	0.00%
		2027	0.00%	0.00%	0.00%
		2028	0.00%	0.00%	0.00%
		2029	0.00%	0.00%	0.00%
		2030	0.00%	0.00%	0.00%
		2031	0.00%	0.00%	0.00%
Dasidantial	0.0%	2032	0.00%	0.00%	0.00%
Residential		2033	0.00%	0.00%	0.00%
(Model 1: HERs		2034	0.00%	0.00%	0.00%
only)		2035	0.00%	0.00%	0.00%
		2036	0.00%	0.00%	0.00%
		2037	0.00%	0.00%	0.00%
		2038	0.00%	0.00%	0.00%
		2039	0.00%	0.00%	0.00%
		2040	0.00%	0.00%	0.00%
		2041	0.00%	0.00%	0.00%
		2042	0.00%	0.00%	0.00%
		2043	0.00%	0.00%	0.00%
		2044	0.00%	0.00%	0.00%
		2045	0.00%	0.00%	0.00%
		2046	0.00%	0.00%	0.00%
		2047	0.00%	0.00%	0.00%
		Long Term	0.49%	0.20%	E 269/
		Average	0.49%	0.20%	-5.36%
		2022	9.06%	8.61%	0.93%
		2023	0.15%	-0.25%	-7.20%
		2024	0.15%	-0.25%	-7.21%
		2025	0.15%	-0.24%	-7.21%
		2026	0.14%	-0.24%	-7.21%

	Long Torm		Chang	ge in Bills	
Sector	Long Term		Non-	Average	Average
	Rate Impacts		Participants	Customer	Participant
		2027	0.14%	-0.24%	-7.21%
		2028	0.14%	-0.24%	-7.21%
		2029	0.14%	-0.23%	-7.21%
		2030	0.13%	-0.23%	-7.22%
		2031	0.13%	-0.23%	-7.22%
Residential		2032	0.13%	-0.23%	-7.22%
(Model 2: All	0.5%	2033	0.12%	-0.23%	-7.23%
Programs Except	0.5%	2034	0.12%	-0.23%	-7.23%
HERs)		2035	0.12%	-0.22%	-7.23%
		2036	0.12%	-0.22%	-7.23%
		2037	0.11%	-0.22%	-7.24%
		2038	0.11%	-0.22%	-7.24%
		2039	0.04%	-0.07%	-2.41%
		2040	0.04%	-0.07%	-2.41%
		2041	0.03%	-0.06%	-2.06%
		2042	0.03%	-0.06%	-2.06%
		2043	0.03%	-0.06%	-2.06%
		2044	0.03%	-0.06%	-2.06%
		2045	0.00%	0.00%	0.00%
		2046	0.00%	0.00%	0.00%
		2047	0.00%	0.00%	0.00%
		Long Term	0.540/	0.200/	0.05%
		Average	0.51%	0.20%	0.06%
		2022	9.46%	8.53%	8.24%
		2023	0.15%	-0.25%	-0.38%
		2024	0.15%	-0.25%	-0.38%
		2025	0.15%	-0.24%	-0.38%
		2026	0.14%	-0.24%	-0.39%
		2027	0.14%	-0.24%	-0.39%
		2028	0.14%	-0.24%	-0.39%
		2029	0.14%	-0.23%	-0.39%
		2030	0.13%	-0.23%	-0.39%
		2031	0.13%	-0.23%	-0.40%
B. M. L. M. L.		2032	0.13%	-0.23%	-0.40%
Residential	0.50/	2033	0.12%	-0.23%	-0.40%
(Model 3: All	0.5%	2034	0.12%	-0.23%	-0.41%
Programs)		2035	0.12%	-0.22%	-0.41%
		2036	0.12%	-0.22%	-0.41%
		2037	0.11%	-0.22%	-0.42%
		2038	0.11%	-0.22%	-0.42%
		2039	0.04%	-0.07%	-0.14%

	Lana Tama		Chang	ge in Bills	
Sector	Long Term		Non-	Average	Average
	Rate Impacts		Participants	Customer	Participant
		2040	0.04%	-0.07%	-0.14%
		2041	0.03%	-0.06%	-0.12%
		2042	0.03%	-0.06%	-0.12%
		2043	0.03%	-0.06%	-0.12%
		2044	0.03%	-0.06%	-0.12%
		2045	0.00%	0.00%	0.00%
		2046	0.00%	0.00%	0.00%
		2047	0.00%	0.00%	0.00%
		Long Term	0.83%	0.00%	-4.48%
		Average	0.85%	-0.09%	-4.40%
		2022	9.83%	8.38%	3.20%
		2023	0.57%	-0.71%	-5.40%
		2024	0.55%	-0.69%	-5.42%
		2025	0.55%	-0.67%	-5.42%
		2026	0.54%	-0.64%	-5.43%
		2027	0.53%	-0.62%	-5.44%
		2028	0.52%	-0.61%	-5.45%
		2029	0.51%	-0.58%	-5.46%
		2030	0.51%	-0.56%	-5.46%
		2031	0.49%		
		2032	0.48%	-0.54%	-5.49%
Income Eligible	0.8%	2033	0.47%	-0.52%	-5.50%
meome Englore	0.070	2034	0.46%	-0.51%	-5.51%
		2035	0.44%	-0.50%	-5.52%
		2036	0.43%		-5.53%
		2037	0.42%	-0.47%	-5.54%
		2038	0.41%	-0.46%	-5.55%
		2039	0.40%		
		2040	0.39%		
		2041	0.38%		-5.58%
		2042	0.21%		
		2043	0.20%		
		2044	0.00%		
		2045	0.00%		
		2046	0.00%		0.00%
		2047	0.00%	0.00%	0.00%
		Long Term	0.32%	0.21%	-7.07%
		Average			
		2022	6.62%		-11.85%
		2023	0.07%		-17.02%
		2024	0.07%	-0.17%	-17.03%

	Lang Tarm		Chang	ge in Bills	
Sector	Long Term		Non-	Average	Average
	Rate Impacts		Participants	Customer	Participant
		2025	0.07%	-0.17%	-17.03%
		2026	0.07%	-0.17%	-17.03%
		2027	0.07%	-0.17%	-17.03%
		2028	0.07%	-0.17%	-17.03%
		2029	0.07%	-0.17%	-17.03%
		2030	0.07%	-0.17%	-17.03%
		2031	0.06%	-0.17%	-17.03%
		2032	0.00%	0.00%	0.00%
Con all CO I	0.20/	2033	0.00%	0.00%	0.00%
Small C&I	0.3%	2034	0.00%	0.00%	0.00%
		2035	0.00%	0.00%	0.00%
		2036	0.00%	0.00%	0.00%
		2037	0.00%	0.00%	0.00%
		2038	0.00%	0.00%	0.00%
		2039	0.00%	0.00%	0.00%
		2040	0.00%	0.00%	0.00%
		2041	0.00%	0.00%	0.00%
		2042	0.00%	0.00%	0.00%
		2043	0.00%	0.00%	0.00%
		2044	0.00%	0.00%	0.00%
		2045	0.00%	0.00%	0.00%
		2046	0.00%	0.00%	0.00%
		2047	0.00%	0.00%	0.00%
		Long Term	0.49%	0.06%	-2.48%
	•	Average 2022	9.91%	8.69%	1.76%
		2022	0.15%		-7.12%
	•	2023	0.15%		
		2024	0.15%		-7.12%
		2025	0.13%		-7.12%
		2027	0.14%		-7.12%
		2027	0.14%		-7.13%
	•	2028	0.14%		-7.13%
		2030	0.03%		-1.29%
		2030	0.03%		-1.29%
		2031	0.03%		-1.29%
		2032	0.03%	-0.15%	-1.29%
Large C&I	0.5%	2033	0.03%		-1.29%
		2034	0.03%		-1.29%
		2035	0.03%		-1.30%
	•	ZU.1U		· -U.13/0	-1.50/0

Sector	Long Term		Change in Bills				
			Non-	Average	Average		
	Rate Impacts		Participants	Customer	Participant		
		2038	0.00%	0.00%	0.00%		
		2039	0.00%	0.00%	0.00%		
		2040	0.00%	0.00%	0.00%		
		2041	0.00%	0.00%	0.00%		
		2042	0.00%	0.00%	0.00%		
		2043	0.00%	0.00%	0.00%		
		2044	0.00%	0.00%	0.00%		
		2045	0.00%	0.00%	0.00%		
		2046	0.00%	0.00%	0.00%		
		2047	0.00%	0.00%	0.00%		

Table 31: 2022 Illustrative High Scenario Natural Gas Rate and Bill Impacts - Expanded

		Change in Bills				
Sector	Long Term		Non-	Average	Average	
	Rate Impacts		Participants	Customer	Participant	
		Long Term Average	0.02%	0.00%	-0.01%	
		2022	0.37%	-0.07%	-0.25%	
		2023	0.00%	0.00%	0.00%	
		2024	0.00%	0.00%	0.00%	
		2025	0.00%	0.00%	0.00%	
		2026	0.00%	0.00%	0.00%	
		2027	0.00%	0.00%	0.00%	
		2028	0.00%	0.00%	0.00%	
		2029	0.00%	0.00%	0.00%	
		2030	0.00%	0.00%	0.00%	
		2031	0.00%	0.00%	0.00%	
Residential		2032	0.00%	0.00%	0.00%	
	0.00/	2033	0.00%	0.00%	0.00%	
(Model 1: HERs	0.0%	2034	0.00%	0.00%	0.00%	
only)		2035	0.00%	0.00%	0.00%	
		2036	0.00%	0.00%	0.00%	
		2037	0.00%	0.00%	0.00%	
		2038	0.00%	0.00%	0.00%	
		2039	0.00%	0.00%	0.00%	
		2040	0.00%	0.00%	0.00%	
		2041	0.00%	0.00%	0.00%	
		2042	0.00%	0.00%	0.00%	
		2043	0.00%	0.00%	0.00%	
		2044	0.00%	0.00%	0.00%	
		2045	0.00%	0.00%	0.00%	
		2046	0.00%	0.00%	0.00%	
		2047	0.00%	0.00%	0.00%	
		Long Term	0.540/	0.400/	F 340/	
		Average	0.51%	0.18%	-5.34%	
		2022	9.11%	8.60%	0.98%	
		2023	0.17%		-7.18%	
		2024	0.17%	-0.28%	-7.18%	
		2025	0.17%			
		2026	0.17%			

	Long Torm		Chang	ge in Bills	
Sector	Long Term		Non-	Average	Average
	Rate Impacts		Participants	Customer	Participant
		2027	0.16%	-0.27%	-7.19%
		2028	0.16%	-0.27%	-7.19%
		2029	0.16%	-0.27%	-7.20%
		2030	0.16%	-0.27%	-7.20%
		2031	0.15%	-0.26%	-7.20%
Residential		2032	0.15%	-0.26%	-7.20%
(Model 2: All	0.5%	2033	0.14%	-0.26%	-7.21%
Programs Except	0.5%	2034	0.14%	-0.26%	-7.21%
HERs)		2035	0.14%	-0.26%	-7.21%
		2036	0.13%	-0.26%	-7.22%
		2037	0.13%	-0.26%	-7.22%
		2038	0.13%	-0.25%	-7.22%
		2039	0.04%	-0.08%	-2.41%
		2040	0.04%	-0.08%	-2.41%
		2041	0.03%	-0.07%	-2.05%
		2042	0.03%	-0.07%	-2.05%
		2043	0.03%	-0.07%	-2.06%
		2044	0.03%	-0.07%	-2.06%
		2045	0.00%	0.00%	0.00%
		2046	0.00%	0.00%	0.00%
		2047	0.00%	0.00%	0.00%
		Long Term	0.52%	0.17%	0.02%
		Average	0.52/6	0.17%	0.02%
		2022	9.48%	8.48%	8.19%
		2023	0.17%	-0.29%	-0.43%
		2024	0.17%	-0.28%	-0.43%
		2025	0.17%	-0.28%	-0.43%
		2026	0.17%	-0.28%	-0.44%
		2027	0.16%	-0.27%	-0.44%
		2028	0.16%	-0.27%	-0.44%
		2029	0.16%	-0.27%	-0.44%
		2030	0.16%	-0.27%	-0.45%
		2031	0.15%	-0.26%	-0.45%
Posidontial		2032	0.15%	-0.26%	-0.45%
Residential (Model 3: All Programs)	0.5%	2033	0.14%	-0.26%	-0.46%
	0.5/0	2034	0.14%	-0.26%	-0.46%
riugiailis)		2035	0.14%	-0.26%	-0.46%
		2036	0.13%	-0.26%	-0.47%
		2037	0.13%	-0.26%	-0.47%
		2038	0.13%	-0.25%	-0.47%
		2039	0.04%	-0.08%	-0.16%

	Laura Taura		Chang	ge in Bills	
Sector	Long Term		Non- Average Average		
	Rate Impacts		Participants	Customer	Participant
		2040	0.04%	-0.08%	-0.16%
		2041	0.03%	-0.07%	-0.14%
		2042	0.03%	-0.07%	-0.14%
		2043	0.03%	-0.07%	-0.14%
		2044	0.03%	-0.07%	-0.14%
		2045	0.00%	0.00%	0.00%
		2046	0.00%	0.00%	0.00%
		2047	0.00%	0.00%	0.00%
		Long Term	0.89%	-0.17%	-4.42%
		Average	0.89%	-0.17/0	-4.42/0
		2022	9.92%	8.25%	3.29%
		2023	0.66%	-0.81%	-5.32%
		2024	0.64%	-0.79%	-5.34%
		2025	0.63%	-0.77%	-5.35%
		2026	0.62%	-0.74%	-5.36%
		2027	0.61%	-0.72%	-5.36%
		2028	0.60%	-0.70%	-5.38%
		2029	0.59%	-0.67%	-5.38%
		2030	0.58%	-0.65%	-5.39%
		2031	0.57%	-0.63%	-5.41%
		2032	0.55%	-0.62%	-5.42%
Income Eligible	0.9%	2033	0.54%	-0.60%	-5.43%
Income Engine	0.570	2034	0.52%	-0.59%	-5.45%
		2035	0.51%	-0.57%	-5.46%
		2036	0.50%	-0.56%	-5.47%
		2037	0.49%	-0.55%	-5.48%
		2038	0.47%		
		2039	0.46%	-0.52%	-5.51%
		2040	0.45%	-0.51%	-5.52%
		2041	0.44%		
		2042	0.24%		
		2043	0.23%	-0.26%	-3.10%
		2044	0.00%		
		2045	0.00%		
		2046	0.00%		
		2047	0.00%	0.00%	0.00%
		Long Term	0.32%	0.20%	-7.06%
		Average			
		2022	6.63%		
		2023	0.08%		
		2024	0.08%	-0.20%	-17.02%

	Long Torm		Chang	ge in Bills	
Sector	Long Term		Non-	Average	Average
	Rate Impacts		Participants	Customer	Participant
		2025	0.08%	-0.20%	-17.02%
		2026	0.08%	-0.19%	-17.02%
		2027	0.08%	-0.19%	-17.02%
		2028	0.08%	-0.19%	-17.02%
		2029	0.08%	-0.19%	-17.02%
		2030	0.08%	-0.19%	-17.02%
		2031	0.07%	-0.19%	-17.02%
		2032	0.00%	0.00%	0.00%
Small C&I	0.3%	2033	0.00%	0.00%	0.00%
Siliali Cal	0.5%	2034	0.00%	0.00%	0.00%
		2035	0.00%	0.00%	0.00%
		2036	0.00%	0.00%	0.00%
		2037	0.00%	0.00%	0.00%
		2038	0.00%	0.00%	0.00%
		2039	0.00%	0.00%	0.00%
		2040	0.00%	0.00%	0.00%
		2041	0.00%	0.00%	0.00%
		2042	0.00%	0.00%	0.00%
		2043	0.00%	0.00%	0.00%
		2044	0.00%	0.00%	0.00%
		2045	0.00%	0.00%	0.00%
		2046	0.00%	0.00%	0.00%
		2047	0.00%	0.00%	0.00%
		Long Term	0.49%	0.00%	-2.48%
		Average			
		2022	9.94%	8.53%	1.77%
		2023	0.17%	-1.07%	-7.10%
		2024	0.17%		
		2025	0.17%	-1.05%	-7.11%
		2026	0.17%	-1.04%	-7.11%
		2027	0.16%	-1.03%	-7.11%
		2028	0.16%	-1.02%	-7.11%
		2029	0.16%	-1.01%	-7.11%
		2030	0.04%	-0.17%	-1.29%
		2031	0.04%	-0.17%	-1.29%
		2032	0.04%	-0.17%	-1.29%
Large C&I	0.5%	2033	0.03%	-0.17%	-1.29%
		2034	0.03%	-0.17%	-1.29%
		2035	0.03%	-0.17%	-1.29%
		2036	0.03%	-0.17%	
		2037	0.02%	-0.13%	-1.01%

	Long Torm		Change in Bills				
Sector	Long Term Rate Impacts		Non-	Average	Average		
	Nate impacts		Participants	Customer	Participant		
		2038	0.00%	0.00%	0.00%		
		2039	0.00%	0.00%	0.00%		
		2040	0.00%	0.00%	0.00%		
		2041	0.00%	0.00%	0.00%		
		2042	0.00%	0.00%	0.00%		
		2043	0.00%	0.00%	0.00%		
		2044	0.00%	0.00%	0.00%		
		2045	0.00%	0.00%	0.00%		
		2046	0.00%	0.00%	0.00%		
		2047	0.00%	0.00%	0.00%		

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5076 Attachment PUC 1-3-9

Table 32: 2023 Illustrative Base Case Natural Gas Rate and Bill Impacts - Expanded

Table 32	: 2023 Illustrativ	e Base Case Natural Gas Rate and Bill Impacts - Expanded					
	Long Term			e in Bills			
Sector	Rate Impacts		Non-	Average	Average		
	Nate impacts		Participants	Customer	Participant		
		Long Term	0.02%	0.00%	-0.01%		
		Average	0.02/0	0.0070	-0.01/0		
		2023	0.37%	-0.06%	-0.25%		
		2024	0.00%	0.00%	0.00%		
		2025	0.00%	0.00%	0.00%		
		2026	0.00%	0.00%	0.00%		
		2027	0.00%	0.00%	0.00%		
		2028	0.00%	0.00%	0.00%		
		2029	0.00%	0.00%	0.00%		
		2030	0.00%	0.00%	0.00%		
		2031	0.00%	0.00%	0.00%		
		2032	0.00%	0.00%	0.00%		
Residential		2033	0.00%	0.00%	0.00%		
(Model 1: HERs	0.0%	2034	0.00%	0.00%	0.00%		
only)		2035	0.00%	0.00%	0.00%		
		2036	0.00%	0.00%	0.00%		
		2037	0.00%	0.00%	0.00%		
		2038	0.00%	0.00%	0.00%		
		2039	0.00%	0.00%	0.00%		
		2040	0.00%	0.00%	0.00%		
		2041	0.00%	0.00%	0.00%		
		2042	0.00%	0.00%	0.00%		
		2043	0.00%	0.00%	0.00%		
		2044	0.00%	0.00%	0.00%		
		2045	0.00%	0.00%	0.00%		
		2046	0.00%	0.00%	0.00%		
		2047	0.00%	0.00%	0.00%		
		Long Term	0.500/	0.000/	E 600/		
		Average	0.56%	0.22%	-5.60%		
		2023	10.36%	9.82%	1.73%		
		2024	0.18%	-0.30%	-7.53%		
		2025	0.17%	-0.29%	-7.53%		
		2026	0.17%	-0.29%	-7.53%		
		2027	0.17%	-0.29%	-7.53%		
		2028	0.17%		-7.54%		

	Lana Tarra		Chang	ge in Bills	
Sector	Long Term		Non-	Average	Average
	Rate Impacts		Participants	Customer	Participant
		2029	0.16%	-0.28%	-7.54%
		2030	0.16%	-0.28%	-7.54%
		2031	0.16%	-0.27%	-7.54%
Residential		2032	0.15%	-0.27%	-7.55%
(Model 2: All		2033	0.15%	-0.27%	-7.55%
	0.6%	2034	0.15%	-0.27%	-7.56%
Programs Except HERs)		2035	0.14%	-0.27%	-7.56%
neks)		2036	0.14%	-0.27%	-7.56%
		2037	0.13%	-0.27%	-7.57%
		2038	0.13%	-0.26%	-7.57%
		2039	0.13%	-0.26%	-7.57%
		2040	0.04%	-0.09%	-2.60%
		2041	0.04%	-0.09%	-2.60%
		2042	0.04%	-0.08%	-2.30%
		2043	0.04%	-0.08%	-2.31%
		2044	0.03%	-0.08%	-2.31%
		2045	0.03%	-0.08%	-2.31%
		2046	0.00%	0.00%	0.00%
		2047	0.00%	0.00%	0.00%
		Long Term	0.58%	0.22%	0.05%
		Average	0.56%	0.22/6	0.05%
		2023	10.73%	9.71%	9.39%
		2024	0.18%	-0.30%	-0.45%
		2025	0.17%	-0.29%	-0.45%
		2026	0.17%	-0.29%	-0.45%
		2027	0.17%	-0.29%	-0.46%
		2028	0.17%	-0.28%	-0.46%
		2029	0.16%	-0.28%	-0.46%
		2030	0.16%	-0.28%	-0.47%
		2031	0.16%	-0.27%	-0.47%
		2032	0.15%	-0.27%	-0.47%
Residential		2033	0.15%	-0.27%	-0.48%
(Model 3: All	0.6%	2034	0.15%	-0.27%	-0.48%
Programs)		2035	0.14%	-0.27%	-0.48%
		2036	0.14%	-0.27%	-0.49%
		2037	0.13%	-0.27%	-0.49%
		2038	0.13%	-0.26%	-0.49%
		2039	0.13%	-0.26%	-0.50%
		2040	0.04%	-0.09%	-0.17%
		2041	0.04%	-0.09%	-0.17%
		2042	0.04%	-0.08%	-0.15%

	Lana Tana		Chang	ge in Bills	
Sector	Long Term	Non- Average Average			
	Rate Impacts		Participants	Customer	Participant
		2043	0.04%	-0.08%	-0.15%
		2044	0.03%	-0.08%	-0.16%
		2045	0.03%	-0.08%	-0.16%
		2046	0.00%	0.00%	0.00%
		2047	0.00%	0.00%	0.00%
		Long Term	0.89%	-0.05%	-4.50%
		Average	0.8370	-0.0370	-4.50%
		2023	11.10%	9.60%	4.27%
		2024	0.58%	-0.72%	-5.50%
		2025	0.57%	-0.70%	-5.50%
		2026	0.56%	-0.67%	-5.51%
		2027	0.55%	-0.65%	-5.52%
		2028	0.54%	-0.63%	-5.53%
		2029	0.54%	-0.61%	-5.53%
		2030	0.53%	-0.59%	-5.54%
		2031	0.51%	-0.58%	-5.56%
		2032	0.50%	-0.56%	-5.57%
		2033	0.49%	-0.55%	-5.58%
Income Eligible	0.9%	2034	0.48%	-0.53%	-5.59%
		2035	0.46%	-0.52%	-5.60%
		2036	0.45%	-0.51%	-5.61%
		2037	0.44%	-0.50%	-5.63%
		2038	0.43%	-0.48%	-5.64%
		2039	0.42%	-0.47%	-5.65%
		2040	0.41%	-0.46%	-5.66%
		2041	0.40%	-0.45%	-5.67%
		2042	0.39%	-0.44%	-5.68%
		2043	0.20%	-0.23%	-3.04%
		2044	0.20%	-0.22%	-3.05%
		2045	0.00%	0.00%	0.00%
		2046	0.00%	0.00%	0.00%
		2047	0.00%	0.00%	0.00%
		Long Term	0.37%	0.22%	-7.03%
		Average			
		2023	7.55%		-11.12%
		2024	0.10%		-17.00%
		2025	0.10%		
		2026	0.10%		-17.00%
		2027	0.10%		-17.00%
		2028	0.10%		-17.00%
		2029	0.10%	-0.24%	-17.00%

	Long Torm		Chang	ge in Bills	
Sector	Long Term		Non-	Average	Average
	Rate Impacts		Participants	Customer	Participant
		2030	0.10%	-0.24%	-17.01%
		2031	0.09%	-0.24%	-17.01%
		2032	0.09%	-0.24%	-17.01%
		2033	0.00%	0.00%	0.00%
Small C&I	0.4%	2034	0.00%	0.00%	0.00%
		2035	0.00%	0.00%	0.00%
		2036	0.00%	0.00%	0.00%
		2037	0.00%	0.00%	0.00%
		2038	0.00%	0.00%	0.00%
		2039	0.00%	0.00%	0.00%
		2040	0.00%	0.00%	0.00%
		2041	0.00%	0.00%	0.00%
		2042	0.00%	0.00%	0.00%
		2043	0.00%	0.00%	0.00%
		2044	0.00%	0.00%	0.00%
		2045	0.00%	0.00%	0.00%
		2046	0.00%	0.00%	0.00%
		2047	0.00%	0.00%	0.00%
		Long Term	0.56%	0.00%	-3.22%
		Average			
		2023	11.28%	9.77%	1.45%
		2024	0.19%		-8.45%
		2025	0.19%		-8.45%
		2026	0.19%		-8.45%
		2027	0.19%	-1.10%	-8.45%
		2028	0.18%	-1.09%	-8.45%
		2029	0.18%		-8.45%
		2030	0.18%	-1.07%	-8.46%
		2031	0.17%	-1.06%	-8.46%
		2032	0.03%	-0.17%	-1.37%
		2033	0.03%	-0.16%	-1.37%
Large C&I	0.6%	2034	0.03%	-0.16%	-1.37%
		2035	0.03%	-0.16%	-1.37%
		2036	0.03%		-1.37%
		2037	0.03%	-0.16%	-1.37%
		2038	0.02%	-0.13%	-1.10%
		2039	0.00%	0.00%	0.00%
		2040	0.00%	0.00%	0.00%
		2041	0.00%	0.00%	0.00%
		2042	0.00%	0.00%	0.00%
		2043	0.00%	0.00%	0.00%

Sector	Long Torm	Change in Bills				
	Long Term Rate Impacts		Non-	Average	Average	
			Participants	Customer	Participant	
		2044	0.00%	0.00%	0.00%	
		2045	0.00%	0.00%	0.00%	
		2046	0.00%	0.00%	0.00%	
		2047	0.00%	0.00%	0.00%	

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Table 33: 2023 Illustrative High Scenario Natural Gas Rate and Bill Impacts - Expanded

14516 551 2		Tilgii Scenario	Natural Gas Rate Chang	ge in Bills	Expanded
Sector	Long Term		Non-	Average	Average
	Rate Impacts		Participants	Customer	Participant
		Long Term Average	0.01%	0.00%	-0.01%
		2023	0.33%	-0.10%	-0.29%
		2024	0.00%	0.00%	0.00%
		2025	0.00%	0.00%	0.00%
		2026	0.00%	0.00%	0.00%
		2027	0.00%	0.00%	0.00%
		2028	0.00%	0.00%	0.00%
		2029	0.00%	0.00%	0.00%
		2030	0.00%	0.00%	0.00%
		2031	0.00%	0.00%	0.00%
		2032	0.00%	0.00%	0.00%
Residential		2033	0.00%	0.00%	0.00%
(Model 1: HERs	0.0%	2034	0.00%	0.00%	0.00%
only)		2035	0.00%	0.00%	0.00%
		2036	0.00%	0.00%	0.00%
		2037	0.00%	0.00%	0.00%
		2038	0.00%	0.00%	0.00%
		2039	0.00%	0.00%	0.00%
		2040	0.00%	0.00%	0.00%
		2041	0.00%	0.00%	0.00%
		2042	0.00%	0.00%	0.00%
		2043	0.00%	0.00%	0.00%
		2044	0.00%	0.00%	0.00%
		2045	0.00%	0.00%	0.00%
		2046	0.00%	0.00%	0.00%
		2047	0.00%	0.00%	0.00%
		Long Term Average	0.60%	0.17%	-5.57%
		2023	10.44%	9.77%	1.81%
		2024	0.22%	-0.37%	-7.49%
		2025	0.22%	-0.37%	-7.49%
		2026	0.22%	-0.36%	-7.49%
		2027	0.21%	-0.36%	-7.49%
		2028	0.21%	-0.35%	-7.50%

	Lana Tarra		Chang	ge in Bills	
Sector	Long Term		Non-	Average	Average
	Rate Impacts		Participants	Customer	Participant
		2029	0.21%	-0.35%	-7.50%
		2030	0.20%	-0.35%	-7.50%
		2031	0.20%	-0.34%	-7.51%
Dasidantial		2032	0.19%	-0.34%	-7.51%
Residential		2033	0.19%	-0.34%	-7.52%
(Model 2: All	0.6%	2034	0.18%	-0.34%	-7.52%
Programs Except		2035	0.18%	-0.34%	-7.53%
HERs)		2036	0.17%	-0.34%	-7.53%
		2037	0.17%	-0.33%	-7.53%
		2038	0.17%	-0.33%	-7.54%
		2039	0.16%	-0.33%	-7.54%
		2040	0.05%	-0.11%	-2.59%
		2041	0.05%	-0.11%	-2.59%
		2042	0.05%	-0.10%	-2.30%
		2043	0.04%	-0.10%	-2.30%
		2044	0.04%	-0.10%	-2.30%
		2045	0.04%	-0.10%	-2.30%
		2046	0.00%	0.00%	0.00%
		2047	0.00%	0.00%	0.00%
		Long Term	0.61%	0.16%	-0.03%
		Average	0.01%	0.10%	-0.03/6
		2023	10.77%	9.62%	9.29%
		2024	0.22%	-0.37%	-0.55%
		2025	0.22%	-0.37%	-0.55%
		2026	0.22%	-0.36%	-0.55%
		2027	0.21%	-0.36%	-0.56%
		2028	0.21%	-0.35%	-0.56%
		2029	0.21%	-0.35%	-0.56%
		2030	0.20%	-0.35%	-0.57%
		2031	0.20%	-0.34%	-0.57%
		2032	0.19%	-0.34%	-0.58%
Residential		2033	0.19%	-0.34%	-0.58%
(Model 3: All	0.6%	2034	0.18%	-0.34%	-0.59%
Programs)		2035	0.18%	-0.34%	-0.59%
		2036	0.17%	-0.34%	-0.60%
		2037	0.17%	-0.33%	-0.60%
		2038	0.17%	-0.33%	-0.60%
		2039	0.16%	-0.33%	-0.61%
		2040	0.05%	-0.11%	-0.21%
		2041	0.05%		-0.21%
		2042	0.05%		-0.19%

	Lawa Tawa		Chang	ge in Bills	
Sector	Long Term	Non- Average Average			
	Rate Impacts		Participants	Customer	Participant
		2043	0.04%	-0.10%	-0.19%
		2044	0.04%	-0.10%	-0.19%
		2045	0.04%	-0.10%	-0.19%
		2046	0.00%	0.00%	0.00%
		2047	0.00%	0.00%	0.00%
		Long Term	1.00%	-0.17%	-4.40%
	_	Average	1.00%	-0.17/0	-4.40/0
		2023	11.25%	9.37%	4.41%
		2024	0.73%	-0.91%	-5.36%
		2025	0.72%	-0.87%	-5.36%
	_	2026	0.71%	-0.84%	-5.37%
		2027	0.70%	-0.82%	-5.38%
		2028	0.68%	-0.79%	-5.40%
	_	2029	0.68%	-0.76%	-5.41%
	_	2030	0.66%	-0.74%	-5.42%
	_	2031	0.65%	-0.72%	-5.43%
	_	2032	0.63%	-0.70%	-5.45%
	_	2033	0.61%	-0.69%	-5.46%
Income Eligible	1.0%	2034	0.60%	-0.67%	-5.48%
		2035	0.58%	-0.65%	-5.49%
	_	2036	0.57%	-0.64%	-5.51%
	_	2037	0.55%	-0.62%	-5.52%
	_	2038	0.54%	-0.61%	-5.53%
		2039	0.52%	-0.59%	-5.55%
		2040	0.51%	-0.58%	-5.56%
		2041	0.50%	-0.56%	-5.57%
	_	2042	0.48%	-0.55%	-5.58%
	_	2043	0.25%	-0.29%	-2.99%
	_	2044	0.25%	-0.28%	-3.00%
	_	2045	0.00%	0.00%	0.00%
	_	2046	0.00%	0.00%	0.00%
		2047	0.00%	0.00%	0.00%
		Long Term Average	0.38%	0.19%	-7.02%
		2023	7.57%	7.09%	-11.10%
		2023	0.13%	-0.31%	-16.98%
		2025	0.13%	-0.31%	-16.98%
		2025	0.13%	-0.31%	-16.98%
	ŀ	2027	0.13%	-0.31%	-16.98%
	-	2027	0.13%	-0.31%	-16.98%

	Long Torm		Chang	ge in Bills	
Sector	Long Term		Non-	Average	Average
	Rate Impacts		Participants	Customer	Participant
		2030	0.12%	-0.31%	-16.99%
		2031	0.12%	-0.31%	-16.99%
		2032	0.11%	-0.31%	-16.99%
		2033	0.00%	0.00%	0.00%
Small C&I	0.4%	2034	0.00%	0.00%	0.00%
		2035	0.00%	0.00%	0.00%
		2036	0.00%	0.00%	0.00%
		2037	0.00%	0.00%	0.00%
		2038	0.00%	0.00%	0.00%
		2039	0.00%	0.00%	0.00%
		2040	0.00%	0.00%	0.00%
		2041	0.00%	0.00%	0.00%
		2042	0.00%	0.00%	0.00%
		2043	0.00%	0.00%	0.00%
		2044	0.00%	0.00%	0.00%
		2045	0.00%	0.00%	0.00%
		2046	0.00%	0.00%	0.00%
		2047	0.00%	0.00%	0.00%
		Long Term	0.58%	-0.12%	-3.20%
		Average			
		2023	11.33%		1.49%
		2024	0.24%		-8.40%
		2025	0.24%		
		2026	0.23%		-8.40%
		2027	0.23%		-8.41%
		2028	0.23%		-8.41%
		2029	0.23%		-8.41%
		2030	0.22%		
		2031	0.22%		-8.42%
		2032	0.04%		-1.36%
Large C&I	0.6%	2033	0.04% 0.04%		-1.36%
Large Cor	0.0%	2034	0.04%		-1.36%
		2033	0.04%		-1.36% -1.36%
		2037	0.04%		-1.36%
		2037	0.04%		-1.09%
		2039	0.00%	0.00%	0.00%
		2039	0.00%		0.00%
		2040	0.00%		0.00%
		2041	0.00%		
		2042	0.00%		0.00%

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	Long Torm		Chang	ge in Bills	
Sector	Long Term Rate Impacts		Non-	Average	Average
	Nate Impacts		Participants	Customer	Participant
		2044	0.00%	0.00%	0.00%
		2045	0.00%	0.00%	0.00%
		2046	0.00%	0.00%	0.00%
		2047	0.00%	0.00%	0.00%

PUC 1-4

Request:

Referring to Bates 132, the company states that during 2020 the weatherization incentive was increased to 100%.

- a. Please identify the filing wherein the company sought Commission approval of this change. If the company did not seek Commission approval, explain why it did not.
- b. Please quantify the change in the BC ratio caused by this change at:
 - i. The program level
 - ii. The portfolio level

Response:

a. The Company did not seek Commission approval for the weatherization incentive change implemented in 2020. Historically, the Company has viewed adjustments to incentives as program implementation activities. Accordingly, the Company has not sought Commission approval for these types of changes when the anticipated spending impact would not increase total anticipated spend beyond the specified threshold of 15%, relative to approved budget, per the terms of the approved 2020 Annual Plan in Docket No. 4979. Had the Company believed that these incentive changes would have had this impact on actual full year total budgets relative to approved budgets, the Company would have sought approval from the Commission.

In the specific case of this incentive change, the 100% weatherization incentive change was discussed with and implemented with the support of the OER and the Consultant team to the EERMC. Additionally, the specifics of the change, and the logic behind it, were communicated to the Energy Efficiency Technical Working Group (EE TWG) on April 10, 2020 and to the EERMC at the April 30, 2020 meeting.

The changes were reported in the Company's quarterly report for the first and second quarters of 2020 in Docket No. 4979.

The filings may be accessed http://www.ripuc.ri.gov/eventsactions/docket/4979-NGrid-Quarterly%20Report%20(Q1)(8-4-2020).pdf (See reference to EnergyWise Single Family, page 4); and

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http://www.ripuc.ri.gov/eventsactions/docket/4979-NGrid-Quarterly%20Report%20(Q2)(PUC%208-28-2020).pdf . (See reference to Small Business Direct Install, page 13)

- b. Below the company addresses the quantification of the BC Ratio as requested in question part b above.
 - i. The 100% incentive should not change the BC ratio at the program level since both incentives and participant costs are included within the BC ratio calculation. The incentive change results in a decrease to participant costs and an increase to incentive costs but does not drive a BC ratio change.
 - ii. Portfolio level BC ratio should also not change due to an increase in incentive level.

PUC 1-5

Request:

Referring to Bates 60, the company makes the following statement: "The Company will increase its efforts and emphasis on identifying and encouraging customers eligible for the discount rate to move to that rate."

- a. Please identify the actions the company will take to achieve this objective.
- b. What dollar amounts are included in the 2021 budget to support this objective?
- c. Please itemize by program the amounts identified in (b.) above

Response:

On Bates page 60, the sentence in question refers to work that is currently underway pursuant to the Rhode Island Rate Case, Docket 4770.

a. Please identify the actions the company will take to achieve this objective.

Please refer to Docket 4770 Pre-Filed Direct Testimony of John Isberg for a full description of the Company's Customer Affordability Program, which includes multiple customer-focused programs and services designed to increase energy affordability for Rhode Island customers. The Customer Affordability Program includes increased outreach and education and enhanced customer support to increase enrollments in expanded electric and gas discount rates.

b. What dollar amounts are included in the 2021 budget to support this objective?

Please refer to the Company's Customer Affordability Plan under Docket 4770 for the budgets associated with increasing enrollments in expanded electric and gas discount rates. There are no dollar amounts included in the 2021 Rhode Island Energy Efficiency Plan budgets dedicated to identifying and encouraging customers eligible for the discount rate to move to that rate.

c. Please itemize by program the amounts identified in (b.) above.

Please refer to PUC 1-5 (b). There are no dollar amounts included for these activities in the 2021 Rhode Island Energy Efficiency budgets.

PUC 1-6

Request:

Referring to Bates 193, the company states it will create a "welcome packet" for customers new to the low income rate. Please explain with more specificity what the packet will be and please quantify the expected cost to be funded through EE or any other sources.

Response:

Newly enrolled discount rate customers will be sent an Energy Efficiency "welcome package" that will include a personalized letter and an Income Eligible Energy Services Program brochure that introduces customers to the Income Eligible Services Program. As this "welcome package" will be focused on driving customer awareness of and participation in income-eligible energy efficiency program services, it will be entirely funded though Energy Efficiency income eligible program marketing budgets.

As the Company has yet to determine whether the welcome package will be a direct mail piece, an email, or both, the Company does not yet have firm pricing or cost estimates for this initiative. Ultimately, the costs for this initiative will be balanced against other income eligible energy efficiency marketing priorities and managed within the overall requested budget for all income eligible energy efficiency marketing efforts in 2021.

PUC 1-7

Request:

Referring to Bates 147, Attachment 1 table 1 provides kWh delivery forecasts for 2020 through 2023.

- a. Please describe and explain the decrease in kWh deliveries from 7.1 billion kWh in 2020 to 6.6 billion kWh in 2021.
- b. Please explain the subsequent increase in kWh deliveries from 2021 to 2022 from 6.8 billion kWh to 6.96 billion kWh in 2023.
- c. Please provide an alternative schedule that recalculates the proposed electric energy efficiency factor shown on page 1 of Attachment 5, using the same forecast that was used in Docket 5054 which established the Electric Pension/PBOP adjustment factor which went into effect on October 1, 2020 (i.e., 6,951,182,262 kWhs).

Response:

a. The forecasts were developed from econometric models relating monthly deliveries to regional economic and/or demographic variables, weather, and other explanatory variables. All these energy models were specified after reconstituting the historical deliveries for Distributed Energy Resource (DERs). That is, after adding back or subtracting the impacts of the DERs from the historical input dataset. The DERs include energy efficiency (EE), solar-PV (PV), and electric vehicles (EV) for all years. And electric heat pumps were newly added into consideration in the 2020 forecasting process, thus are impacting the forecasts for 2021 and beyond. The model-predicted pre-DER deliveries were then adjusted to reflect projected cumulative DERs' impacts. The final forecasts were composed of two parts: (1) the pre-DER delivery forecasts from the econometric models and (2) the projected cumulative DER impacts. Table 1 below presents the pre-DER values, the impacts of the DERs, and the final forecasts. All numbers in Table 1 are in GWh.

PUC 1-7, page 2

Table 1: Pre-DER Deliveries, DER Impacts, and Final Forecasts (GWh)

NECO TO	TAL Deliveries (weathe	r-normalize, 50/5	60) (GWh) (be	fore & after D	ERs)		
	- DELIVERIES (50/50)		DER	IMPACTS		-	Final Forecast
Calendar	Reconstituted						
Year	(before DER impacts)	EE Reduction	PV Reduction	EV Increase	EH Increase	Total Impacts	(after all impacts)
2020	9,808	(2,335)	(367)	7	0	(2,695)	7,113
2021	9,236	(2,478)	(166)	11	5	(2,629)	6,607
2022	9,577	(2,621)	(203)	13	8	(2,803)	6,775
2023	9,923	(2,753)	(239)	16	13	(2,963)	6,961

The 2021 pre-DER delivery, 9,238 GWh, drops from the 2020 value, 9,808 GWh for two main reasons: (1) starting in 2021, only net behind-the-meter PV (BTM PV), which is only a portion of the installed PV, are considered in the reconstituted value. However, when the 2020 number was prepared in 2019, all the PV were considered. This makes the 2020 reconstituted value look higher than if only the net BTM PV were considered. (2) the lower economic outlook for 2021 (driven by the COVID-19 recession) based on Moody's economic forecasts also drives the pre-DER forecasts lower for 2021.

The DERs are expected to lower the pre-DER forecast by 2,629 GWh in 2021, and they were expected to lower the 2020 pre-DER forecasts by 2,695 GWh. The differences in the DERs impacts come from the following: (1) the higher EE reduction in 2021 due to incremental EE that are expected to be added; (2) as mentioned above, although additional PV installations are expected in 2021, only net Behind-the-Meter PV but not all PV installations are considered from 2021 and beyond. Thus, the energy reduction from PV is lower in 2021 than that in 2020; (3) more EVs are expected to add load to the system; and (4) electric heat pumps are considered starting 2021, and they add load to the system. Overall, the total DERs impact in 2021 is slightly lower than what was expected for 2020.

In sum, the decrease in kWh deliveries from 7.1 billion kWh in 2020 to 6.6 billion kWh in 2021 is mainly driven by the lower economic outlook driven by the COVID-19 recession based on Moody's economic forecasts and adjustments made to the DERs.

b. As explained in part a, the delivery forecasts are composed of two parts: (1) the pre-DER delivery forecasts from the econometric models and (2) the projected cumulative DER impacts. Table 1 in part a also lists the pre-DER delivery forecasts, DER impacts, and the final forecasts for 2022 and 2023. The pre-DER delivery forecasts of 2022 and 2023 will grow from its expected 2021 level mainly driven by the expected recovery of the economy based on Moody's economic forecasts. More specifically, the pre-DER

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deliveries are expected to grow to 9,577 GWh in 2022 and 9,923 GWh in 2023 from the expected 9,236 GWh in 2021. The projected energy reduction from DER impacts will continue to grow, but at a slower pace because of the electrification in transportation and heating (i.e., the beneficial electrification). As a result, the kWh deliveries are expected to grow to 6.8 billion kWh in 2022 and 6.96 billion kWh in 2023.

c. The kwh forecast used in the 2021 Annual Plan filing is based on a calendar year 2021 forecast (January 1, 2021 – December 31, 2021). The 6,951,182,262 kWh forecast provided in Docket 5054 is for October 1, 2020 – September 30, 2021 and would therefore not align with a energy efficiency rate based on a calendar year forecast. In addition, the forecast used in Docket 5054 was based on a forecast made in 2019 and would therefore not include the impacts of COVID-19.

PUC 1-7-Revised

Request:

Referring to Bates 147, Attachment 1 table 1 provides kWh delivery forecasts for 2020 through 2023.

- a. Please describe and explain the decrease in kWh deliveries from 7.1 billion kWh in 2020 to 6.6 billion kWh in 2021.
- b. Please explain the subsequent increase in kWh deliveries from 2021 to 2022 from 6.8 billion kWh to 6.96 billion kWh in 2023.
- c. Please provide an alternative schedule that recalculates the proposed electric energy efficiency factor shown on page 1 of Attachment 5, using the same forecast that was used in Docket 5054 which established the Electric Pension/PBOP adjustment factor which went into effect on October 1, 2020 (i.e., 6,951,182,262 kWhs).

Original Response:

a. The forecasts were developed from econometric models relating monthly deliveries to regional economic and/or demographic variables, weather, and other explanatory variables. All these energy models were specified after reconstituting the historical deliveries for Distributed Energy Resource (DERs). That is, after adding back or subtracting the impacts of the DERs from the historical input dataset. The DERs include energy efficiency (EE), solar-PV (PV), and electric vehicles (EV) for all years. And electric heat pumps were newly added into consideration in the 2020 forecasting process, thus are impacting the forecasts for 2021 and beyond. The model-predicted pre-DER deliveries were then adjusted to reflect projected cumulative DERs' impacts. The final forecasts were composed of two parts: (1) the pre-DER delivery forecasts from the econometric models and (2) the projected cumulative DER impacts. Table 1 below presents the pre-DER values, the impacts of the DERs, and the final forecasts. All numbers in Table 1 are in GWh.

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Table 1: Pre-DER Deliveries, DER Impacts, and Final Forecasts (GWh)

NECO TO	ΓAL Deliveries (weather	r-normalize, 50/5	60) (GWh) (be	fore & after D	ERs)		
	- DELIVERIES (50/50)		DER	IMPACTS		_	Final Forecast
Calendar	Reconstituted						
Year	(before DER impacts)	EE Reduction	PV Reduction	EV Increase	EH Increase	Total Impacts	(after all impacts)
2020	9,808	(2,335)	(367)	7	0	(2,695)	7,113
2021	9,236	(2,478)	(166)	11	5	(2,629)	6,607
2022	9,577	(2,621)	(203)	13	8	(2,803)	6,775
2023	9,923	(2,753)	(239)	16	13	(2,963)	6,961

The 2021 pre-DER delivery, 9,238 GWh, drops from the 2020 value, 9,808 GWh for two main reasons: (1) starting in 2021, only net behind-the-meter PV (BTM PV), which is only a portion of the installed PV, are considered in the reconstituted value. However, when the 2020 number was prepared in 2019, all the PV were considered. This makes the 2020 reconstituted value look higher than if only the net BTM PV were considered. (2) the lower economic outlook for 2021 (driven by the COVID-19 recession) based on Moody's economic forecasts also drives the pre-DER forecasts lower for 2021.

The DERs are expected to lower the pre-DER forecast by 2,629 GWh in 2021, and they were expected to lower the 2020 pre-DER forecasts by 2,695 GWh. The differences in the DERs impacts come from the following: (1) the higher EE reduction in 2021 due to incremental EE that are expected to be added; (2) as mentioned above, although additional PV installations are expected in 2021, only net Behind-the-Meter PV but not all PV installations are considered from 2021 and beyond. Thus, the energy reduction from PV is lower in 2021 than that in 2020; (3) more EVs are expected to add load to the system; and (4) electric heat pumps are considered starting 2021, and they add load to the system. Overall, the total DERs impact in 2021 is slightly lower than what was expected for 2020.

In sum, the decrease in kWh deliveries from 7.1 billion kWh in 2020 to 6.6 billion kWh in 2021 is mainly driven by the lower economic outlook driven by the COVID-19 recession based on Moody's economic forecasts and adjustments made to the DERs.

b. As explained in part a, the delivery forecasts are composed of two parts: (1) the pre-DER delivery forecasts from the econometric models and (2) the projected cumulative DER impacts. Table 1 in part a also lists the pre-DER delivery forecasts, DER impacts, and the final forecasts for 2022 and 2023. The pre-DER delivery forecasts of 2022 and 2023 will grow from its expected 2021 level mainly driven by the expected recovery of the economy based on Moody's economic forecasts. More specifically, the pre-DER

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deliveries are expected to grow to 9,577 GWh in 2022 and 9,923 GWh in 2023 from the expected 9,236 GWh in 2021. The projected energy reduction from DER impacts will continue to grow, but at a slower pace because of the electrification in transportation and heating (i.e., the beneficial electrification). As a result, the kWh deliveries are expected to grow to 6.8 billion kWh in 2022 and 6.96 billion kWh in 2023.

c. The kwh forecast used in the 2021 Annual Plan filing is based on a calendar year 2021 forecast (January 1, 2021 – December 31, 2021). The 6,951,182,262 kWh forecast provided in Docket 5054 is for October 1, 2020 – September 30, 2021 and would therefore not align with a energy efficiency rate based on a calendar year forecast. In addition, the forecast used in Docket 5054 was based on a forecast made in 2019 and would therefore not include the impacts of COVID-19.

Revised Response:

c. Attachment 1-7-1 contains numbers that are based on the same forecast as in Docket 5054 and the same October 1, 2020 – September 30, 2021 timeframe that was used in Docket 5054.

The Company notes that the kWh forecast used in the 2021 Annual Plan filing is based on a calendar year 2021 forecast (January 1, 2021 – December 31, 2021). The 6,951,182,262 kWh forecast provided in Docket 5054 is for October 1, 2020 – September 30, 2021 and would, therefore, not align with an energy efficiency rate based on a calendar year forecast.

In addition, the forecast used in Docket 5054 was based on a forecast made in 2019 and would, therefore, not include the impacts of COVID-19.

PUC 1-7 (Second Revised)

Request:

Referring to Bates 147, Attachment 1 table 1 provides kWh delivery forecasts for 2020 through 2023.

- a. Please describe and explain the decrease in kWh deliveries from 7.1 billion kWh in 2020 to 6.6 billion kWh in 2021.
- b. Please explain the subsequent increase in kWh deliveries from 2021 to 2022 from 6.8 billion kWh to 6.96 billion kWh in 2023.
- c. Please provide an alternative schedule that recalculates the proposed electric energy efficiency factor shown on page 1 of Attachment 5, using the same forecast that was used in Docket 5054 which established the Electric Pension/PBOP adjustment factor which went into effect on October 1, 2020 (i.e., 6,951,182,262 kWhs).

Response:

This response represents a second revised version of the Company's original response to PUC 1-7 that was submitted on November 10, 2020 and revised response to PUC 1-7 that was submitted on November 12, 2020.

The Company's response to (a) and (b) remain the same as originally filed and are as follows:

a. The forecasts were developed from econometric models relating monthly deliveries to regional economic and/or demographic variables, weather, and other explanatory variables. All these energy models were specified after reconstituting the historical deliveries for Distributed Energy Resource (DERs). That is, after adding back or subtracting the impacts of the DERs from the historical input dataset. The DERs include energy efficiency (EE), solar-PV (PV), and electric vehicles (EV) for all years. And electric heat pumps were newly added into consideration in the 2020 forecasting process, thus are impacting the forecasts for 2021 and beyond. The model-predicted pre-DER deliveries were then adjusted to reflect projected cumulative DERs' impacts. The final forecasts were composed of two parts: (1) the pre-DER delivery forecasts from the econometric models and (2) the projected cumulative DER impacts. Table 1 below presents the pre-DER values, the impacts of the DERs, and the final forecasts. All numbers in Table 1 are in GWh.

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Table 1: Pre-DER Deliveries, DER Impacts, and Final Forecasts (GWh)

NECO TO	ΓAL Deliveries (weather	r-normalize, 50/5	60) (GWh) (be	fore & after D	ERs)		
	- DELIVERIES (50/50)		DER	IMPACTS		_	Final Forecast
Calendar	Reconstituted						
Year	(before DER impacts)	EE Reduction	PV Reduction	EV Increase	EH Increase	Total Impacts	(after all impacts)
2020	9,808	(2,335)	(367)	7	0	(2,695)	7,113
2021	9,236	(2,478)	(166)	11	5	(2,629)	6,607
2022	9,577	(2,621)	(203)	13	8	(2,803)	6,775
2023	9,923	(2,753)	(239)	16	13	(2,963)	6,961

The 2021 pre-DER delivery, 9,238 GWh, drops from the 2020 value, 9,808 GWh for two main reasons: (1) starting in 2021, only net behind-the-meter PV (BTM PV), which is only a portion of the installed PV, are considered in the reconstituted value. However, when the 2020 number was prepared in 2019, all the PV were considered. This makes the 2020 reconstituted value look higher than if only the net BTM PV were considered. (2) the lower economic outlook for 2021 (driven by the COVID-19 recession) based on Moody's economic forecasts also drives the pre-DER forecasts lower for 2021.

The DERs are expected to lower the pre-DER forecast by 2,629 GWh in 2021, and they were expected to lower the 2020 pre-DER forecasts by 2,695 GWh. The differences in the DERs impacts come from the following: (1) the higher EE reduction in 2021 due to incremental EE that are expected to be added; (2) as mentioned above, although additional PV installations are expected in 2021, only net Behind-the-Meter PV but not all PV installations are considered from 2021 and beyond. Thus, the energy reduction from PV is lower in 2021 than that in 2020; (3) more EVs are expected to add load to the system; and (4) electric heat pumps are considered starting 2021, and they add load to the system. Overall, the total DERs impact in 2021 is slightly lower than what was expected for 2020.

In sum, the decrease in kWh deliveries from 7.1 billion kWh in 2020 to 6.6 billion kWh in 2021 is mainly driven by the lower economic outlook driven by the COVID-19 recession based on Moody's economic forecasts and adjustments made to the DERs.

b. As explained in part a, the delivery forecasts are composed of two parts: (1) the pre-DER delivery forecasts from the econometric models and (2) the projected cumulative DER impacts. Table 1 in part a also lists the pre-DER delivery forecasts, DER impacts, and the final forecasts for 2022 and 2023. The pre-DER delivery forecasts of 2022 and 2023 will grow from its expected 2021 level mainly driven by the expected recovery of the economy based on Moody's economic forecasts. More specifically, the pre-DER

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deliveries are expected to grow to 9,577 GWh in 2022 and 9,923 GWh in 2023 from the expected 9,236 GWh in 2021. The projected energy reduction from DER impacts will continue to grow, but at a slower pace because of the electrification in transportation and heating (i.e., the beneficial electrification). As a result, the kWh deliveries are expected to grow to 6.8 billion kWh in 2022 and 6.96 billion kWh in 2023.

For (c), the Company has revised its response, which is as follows:

c. Please see Attachment PUC 1-7-1 (Revised) which contains numbers that are based on the same forecast as used in Docket No. 5054. The impact of applying the 6,951,182,262 kWh forecast to the 2021 Electric Energy Efficiency program year (January 1, 2021 – December 31, 2021) results in a lowering of the proposed 2021 Energy Efficiency surcharge from \$0.01323/kWh to \$0.01257/kWh.

Please note that the 2021 projected kWh Sales (6,606,545,391 kWh) on Bates 147 stems from a more recent forecast/analysis than the projected kWh Sales (6,951,182,262 kWh) used in Attachment PUC 1-7-1 (Revised).

Table E-1 National Grid Electric DSM Funding Sources in 2021 by Sector \$(000)

(1)	Projected Budget (from E-2):	Income Eligible Residential \$19,804.31	Projections by Sector Non-Income Eligible Residential \$41,191.70	Commercial & Industrial \$61,310.01	Total \$122,306.03
	Sources of Other Funding:				
(2)	Projected DSM Commitments at Year-End 2020:	\$0.00	\$0.00	\$0.00	\$0.00
(3)	Projected Year-End 2020 Fund Balance and Interest:	\$0.00	\$352.71	\$19,608.97	\$19,961.68
(4)	Projected FCM Payments from ISO-NE:	\$472.60	\$6,189.90	\$9,355.40	\$16,018.00
(5)	Total Other Funding:	\$472.60	\$6,542.61	\$28,964.37	\$35,979.68
(6)	Customer Funding Required:	\$19,331.71	\$34,649.09	\$32,345.64	\$86,326.35
(7)	Forecasted kWh Sales:	205,099,654	2,686,191,575	4,059,891,033	6,951,182,262
(8)	Energy Efficiency Program charge per kWh, excluding uncollectible recovery:				\$0.01241
(9)	Proposed SRP Opex Factor per kWh, excluding uncollectible recovery:				\$0.00000
(10)	Total Proposed Energy Efficiency Charge per kWh, excluding uncollectible recovery:				\$0.01241
(11)	Currently Effective Uncollectible Rate				1.30%
(12)	$\label{lem:proposed} \textbf{Proposed Energy Efficiency Program Charge per kWh, including Uncollectible} \\ \textbf{Recovery:}$				\$0.01257
(13)	Currently Effective Energy Efficiency Program Charge per kwh				\$ <u>0.01323</u>
(14)	Proposed Adjustment to Reflect Fully Reconciling Funding Mechanism				(\$0.00066)

- (1) Projected Budget from E-2 includes OER and EERMC costs allocated to each sector based on forecasted sales.
- (2) DSM Commitments are projects that are under construction with anticipated completion in 2021.

 (3) Fund balance projections include projected revenue and spend through year end with Income Eligible sector set to \$0 through projected subsidization from other sectors, minus commitments which are illustrated separately on line (2). The Company proposes to refile this table with updated Fund Balance projections on December 1, 2020 as proposed in Section 12.1 of the Plan's Main Text.
- (3a) The Fund balance projection includes a credit and interest in the amount of \$469,641.16 pursuant to the PUC Open Meeting on September 1, 2020 in relation to Docket No. 4755 and the Navy CHP Settlement Agreement.
- (4) The total projection of FCM revenue is allocated by kWh sales to each sector.
- (5) Line (2) + Line (3) + Line (4)
- (6) Line (1) Line (5)

(7) Forecast matches the forecast provided in Docket 5054.

- (8) Line (6) ÷ Line (7), truncated to 5 decimal places (9) Truncated to 5 decimal places
- (11) Proposed SRP Opex Factor is \$0.00000.
- (10) Line (8) + Line (9)
- $(11)\ Uncollectible\ rate\ approved\ in\ Docket\ No\ 4770.$
- (12) Line (10) ÷ (1-Line (11), truncated to 5 decimal places
- $(13) \ Currently \ Effective \ EE \ Charge \ includes \ System \ Reliability \ Factor \ and \ uncollectible \ recovery. \\ (14) \ Line \ (13) \ \ Line \ (12)$

PUC 1-8

Request:

Referring to Bates 151, Attachment 1 Table 3 provides Dth delivery forecasts for 2020 through 2023.

- a. Please explain and itemize the decrease in Dth deliveries from 42.1 million Dth in 2020 to 38.6 million Dth in 2021.
- b. Please explain the subsequent increase in Dth deliveries in 2022 to 39.98 million Dth and to 41.2 million Dth in 2023.
- c. Please provide an alternative schedule that recalculates the proposed gas energy efficiency factor shown on page 1 of Attachment 6, using the same forecast that was used in Docket 5040 which established the Distribution Adjustment Factor which went into effect on November 1, 2020 (i.e., 39,648,231 dths).

Response:

a. The projected volume of 42.1 million Dth in 2020 is based on the Company's 2019 Q2 forecasts whereas, the 38.6 million Dth projected for 2021 is from the Company's 2020 Q2 forecasts. The 2020 Q2 projections consider an additional year of historical data (the actual billing data until the end of February 2020 was taken into consideration) compared to 2019 Q2 forecasts, which considers actual data up to February 2019 only.

The primary reason for a decline in the Company's 2020 Q2 forecast relative to its 2019 Q2 forecast is the impact of COVID-19 pandemic on the Rhode Island economy as projected by Moody's analytics. In its 2019 Q2 forecast, the Company forecasted a total of 42,171,352 Dth for the calendar year 2020. The impact of the COVID-19 pandemic on the economy of Rhode Island can be seen in the corresponding time period in the 2020 Q2 forecast with a forecasted load of 36,829,633 Dth, a 12.7 percent reduction.¹

Similarly, there was an 8.9 percent decline in the projected volume for 2021 from 2019 Q2 forecast versus 2020 Q2 forecast (from 42,382,476 Dth based on 2019 Q2 projections to 3,860,800 Dth based on 2020 Q2 projections).

For both 2019 Q2 and 2020 Q2 forecasts, the Company developed econometric models to separately forecast the meter count and the use-per-customer for Residential Heating, Residential Non-heating, Commercial, and Industrial customer groups. The meter count

¹ Assuming the same DG customer volume (of 1,470,931 Dth) for 2020 as used in 2019 Q2 forecasts.

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and use-per-customer are multiplied to obtain a forecast of retail volumes for each customer class. Next, the incremental savings from the impact of the energy efficiency programs (that are not embedded in the historical data used to derive the statistical models because such savings are exogenous to the modeling effort) are subtracted from the projected volumes. These volumes are then broken down at the rate code level based on the historical share (most recent three years) of the rate codes within their respective customer group.

The meter counts and the use-per-customer in the region are considerably driven by the underlying macro-economic scenario. The Company uses the following macro-economic variables obtained from Moody's forecasts in developing its meter count and use-per-customer forecasts:

- a. Personal Income
- b. Non-manufacturing Employment
- c. Manufacturing Employment
- d. Total Employment
- e. Retail Sales
- f. Gas-to-Oil Price Ratio for the Industrial Sector in the state of Rhode Island.

Attachments PUC 1-8-1 through PUC 1-8-4, provide the full set of monthly economic and price variables considered in the development of the Company's 2020 Q2 retail gas forecast. The corresponding data used in 2019 Q2 projections are in Attachments PUC 1-8-3 and 1-8-4.

b. In the Company's 2021 Annual Energy Efficiency Program Plan, on Bates 151, Attachment 1, Table 3, the Company presented its deliveries forecasts from CY 2020 to CY 2023 (reproduced in Table 1). The growth in total volumes from 2021 to 2022 is 1,373,518 Dth (39,981,521 Dth minus 38,608,003 Dth), and from 2022 to 2023 is 1,219,848 Dth (41,201,369 Dth minus 39,981,521 Dth).

Table 1

	2020	2021	2022	2023
Projected Volume (in Dth)	42,171,352	38,608,003	39,981,521	41,201,369

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As mentioned in the response to 1-8a, the economic outlook for Rhode Island was downgraded by Moody's due to the impact of COVID-19 was responsible for a reduction of volumes in 2021 in the 2020 Q2 forecast. The growth in volumes in the following years is driven by the improved macro-economic forecasts from Moody's, under the assumption of economic recovery and restoration of the economy, post-COVID.

c. The gas forecast used in the DAC filing is the same as used in the current filing. The only difference is that the volumes in the DAC filing are reported by planning year (spanning November through October) and volumes in the EE filing are reported by calendar year.

	.08	.14	4.2	.24	.27	.29	.31	.33	.35	.38	464.4	.43	.47	.51	.55	464.6	464.65	4.7	.75	464.8	.85	.89	.94	.98	.02	90'	465.1	.13	.17	5.2	.23	.27	5.3	.34	.38	.42	.46	465.5	.54	.58	.62	465.66
TOTHSTOCK_RI	464.08	464.14	464.	464.24	464.27	464.29	464.31	464.33	464.35	464.38	46	464.43	464.47	464.51	464.55	46	464	. 464.	464.75	46	464.85	464.89	464.94	464.98	465.02	465.06	46	465.13	465.1	465.	465.23	465.27	465.	465.34	465.38	465.42	465.46	46	465.54	465.58	465.62	465
	61.68	61.83	61.94	62.03	62.09	62.11	62.11	62.09	62.1	62.14	62.22	62.33	62.43	62.52	62.58	62.6	62.59	62.61	62.67	62.75	62.81	62.81	62.77	65.69	62.59	62.48	62.36	62.26	62.19	62.21	62.31	62.47	62.58	62.62	62.62	62.66	62.79	62.97	63.16	63.31	63.43	63.55
KE I SALES_KI																																										
וכף א־		19931.37	19922.97	19905.65	19880.21	19848.61	19811.69		19756.5	19758.81		19828.35	19883.42	19941.56	19994.13	20036.06	20074.25	20116.48	20168.9			20276.53	20263.53	20227.42	20175.58		20039.96	19965.71		19860.54			19846.06	19818.26	19785.2	19771.38		19834.82	19884.02		19965.44	20006.62
INCOME_RI	210.02	210.07	209.97	209.77	209.48	209.14	208.73	208.36	208.14	208.16	208.43	208.9	209.5	210.13	210.71	211.17	211.6	212.07	212.65	213.24	213.68	213.85	213.73	213.36	212.82	212.15	211.4	210.61	209.92	209.51	209.39	209.42	209.36	209.08	208.74	208.61	208.84	209.32	209.86	210.33	210.76	211.22
POP_RI		1053.96	1053.89		1053.73		1053.59	1053.54	1053.51		1053.51	1053.56	1053.64	1053.73	1053.84	1053.97	1054.1	1054.23			1054.59		1054.75		1054.84		1054.88	1054.88		1054.88	1		1054.92	1054.96	1055.02	1055.1	1055.19	1055.29		1055.51		
Y H	414.85	415.05	415.25	415.47	415.71	415.95	416.2	416.48	416.76	417.06	417.36	417.68	418.01	418.34	418.67	419.01	419.36	419.7	420.03	420.37	420.71	421.04	421.37	421.69	422.01	422.32	422.63	422.93	423.24	423.53	423.83	424.13	424.44	424.75	425.06	425.38	425.7	426.01	426.32	426.61	426.89	427.14
	51663.65	51643.65	51606.59	51556.37	51496.14	51434.05	51371.03	51308.79	51253.59	51209.39	51180.18	51167.16	51169.48	51185.35	51213.08	51251.26	51299.08	51352.49	51411.51	51475.66	51542.5	51610.46	51678.02	51745.07	51808.58	51868.81	51925	51976.26	52022.54	52060.38	52091.25	52115.28	52130.34	52135.72	52130.62	52115.64	52093.76	52067.42	52039.31	52012.06	51987.97	51970.89
NONMFG_RI	418.54	418.73	418.89	419.02	419.15	419.27	419.4	419.56	419.75	419.98	420.26	420.61	421	421.43	421.91	422.41	422.94	423.47	424.01	424.56	425.1	425.64	426.15	426.66	427.14	427.6	428.06	428.5	428.95	429.37	429.8	430.24	430.69	431.15	431.63	432.12	432.62	433.13	433.65	434.18	434.73	435.25
	15.88	15.84	15.8	15.76	15.73	15.7	15.68	15.66	15.65	15.65	15.66	15.68	15.71	15.75	15.79	15.83	15.88	15.93	15.97	16.01	16.05	16.08	16.1	16.11	16.12	16.12	16.11	16.11	16.1	16.09	16.08	16.08	16.08	16.08	16.09	16.12	16.14	16.18	16.21	16.26	16.3	16.34
MFG_RI		40.46	40.45		40.4	40.37		40.28	40.23	40.18	40.12	40.06	40	39.94	39.88	39.82	39.77	39.72		39.64	39.61		39.58		39.58	39.59	39.62			39.73				39.96	40.03	40.1	40.18	40.26		7	40.5	40.57
BDD_N EMPL_RI MFG_RI CONST_RI		459.19	459.34	459.45	459.55	459.64		459.84	459.98	460.15	460.38	460.67	461	461.37	461.79	462.23	462.71	463.19	463.69	464.2	464.71	465.23	465.73	466.23	466.72		467.67	468.15	468.64	469.1	469.58		470.59	471.11	471.65	472.22	472.8	473.39	473.99	474.6	475.22	475.82
BDD_N		156	437	260	. 1011	1125	, 835	673	262		19	0	, 13	156	437	200	1011	1125	872	673	262	131	19	9.0	, 13		437	. 760	1011	1125	835			131	, 19	3 0.4		156	437	. 760	1011	1125
TIME		2010.75	2010.83	_	2011	2011.08		2011.25	2011.33	2011.42	2011.5	2011.58	2011.67	2011.75		2011.92	2012	2012.08	2012.17		2012.33	2012.42	2012.5		2012.67		2012.83	2012.92	2013	2013.08				2013.42	2013.5	2013.58		2013.75		2013.92	2014	2014.08
DATE	10-Sep	10-Oct	10-Nov	10-Dec	11-Jan	11-Feb	11-Mar	11-Apr	11-May	11-Jun	11-Jul	11-Aug	11-Sep	11-0ct	11-Nov	11-Dec	12-Jan	12-Feb	12-Mar	12-Apr	12-May	12-Jun	12-Jul	12-Aug	12-Sep	12-0ct	12-Nov	12-Dec	13-Jan	13-Feb	13-Mar	13-Apr	13-May	13-Jun	13-Jul	13-Aug	13-Sep	13-0ct	13-Nov	13-Dec	14-Jan	14-Feb

	2	6	3	9	6	3	7	9	3	7	1	3	7	7	4	∞	3	7	7	7	7	7	7	7	3	∞	4	6	2	/	9	7	∞	4	3	9	7	6	9	3	_	8	I 9
RI	465.75	465.79	465.83	465.86	465.9	465.93	465.97	466	466.03	466.07	466.1	466.13	466.17	466.2	466.24	466.28	466.33	466.37	466.42	466.47	466.52	466.57	466.62	466.67	466.73	466.78	466.84	466.89	466.95	467	467.06	467.12	467.18	467.24	467.3	467.36	467.42	467.49	467.56	467.63	467.7	467.78	467.86
TOTHSTOCK_RI																																											
	63.85	64.03	64.22	64.41	64.61	64.82	65.05	65.36	65.75	66.14	66.37	66.4	66.3	66.18	66.13	66.15	66.19	66.22	66.27	66.33	66.44	66.53	99.99	66.49	66.37	66.28	66.28	66.35	66.44	66.53	9.99	66.65	69.99	66.75	68.99	67.12	67.42	69.79	62.89	68.03	68.14	68.24	68.35
RETSALES_RI																																											
ICP_RI	20120.15	20190.88	20267.55	20348.16	20432.45	20518.98	20617.75	20739.54	20885.97	21029.75	21124.08	21151.79	21134.52	21108.29	21101.25	21110.03	21121.86	21128.3	21133.19	21143.77	21162.39	21176.15	21167.12	21126.63	21070.43	21023.98	21004.71	21008.51	21022.99	21036.68	21046.32			21066.38		21172.58	21262.06	21346.51	21408.75	21452.12	21488.02	21523.32	21557.66
INCOME_RI	212.45	213.21	214.03	214.89	215.78	216.69	217.73	219.01	220.54	222.05	223.04	223.33	223.14	222.87	222.8	222.91	223.06	223.15	223.23	223.38	223.61	223.78	223.71	223.3	222.72	222.24	222.03	222.06	222.18	222.3	222.36	222.36	222.34	222.43	222.78	223.48	224.4	225.27	225.92	226.39	226.8	227.21	227.63
POP_RI	1055.91	1055.98	1056.03	1056.06	1056.06	1056.05	1056.02	1055.98	1055.94	1055.89	1055.86	1055.84	1055.83	1055.85	1055.89	1055.96	1056.06	1056.18	1056.32		1056.62	1056.76			1057.04	1057.07	1057.06	1056.99	1056.87	1056.7	1056.51	1056.3		1055.87	1055.68	1055.52	1055.39	1055.31	1055.29	1055.34	1055.47	1055.65	1055.9
HH_RI	427.58	427.76	427.9	428.01	428.08	428.12	428.13	428.12	428.09	428.04	427.99	427.94	427.88	427.82	427.78	427.75	427.73	427.73	427.73	427.74	427.75	427.76	427.76	427.75	427.73	427.69	427.63	427.54	427.43	427.31	427.16	427		426.65	426.47	426.3	426.12	425.95	425.78	425.63	425.5	425.38	425.29
GDP_RI	51964.16	51980.22	52012.81	52064.55	52136.4	52222.95	52321.95	52429.93	52543.61	52661.48	52772.68	52879.74	52982.98	53075.2	53153.18	53213.58	53256.25	53281.57	53292.23	53290.36	53277.82	53256.28	53228.93	53197.03	53161.95	53126.15	53091.61	53060.25	53032.6	53009.51	52990.4	52975.09	52963.48	52955.32	52950.8	52949.4	52951.03	52955.69	52963.23	52973.57	52987.34	53005.02	53027.82
NONMFG_RI	436.33	436.88	437.43	437.98	438.53	439.08	439.62	440.16	440.69	441.22	441.73	442.23	442.74	443.24	443.73	444.21	444.69	445.16	445.62	446.07	446.51	446.96	447.39	447.81	448.23	448.66	449.08	449.49	449.91	450.32	450.72	451.1	451.46	451.81	452.12	452.39	452.65	452.87	453.04	453.17	453.27	453.34	453.39
	16.42	16.46	16.49	16.52	16.54	16.56	16.58	16.6	16.61	16.64	16.67	16.7	16.74	16.8	16.86	16.95	17.04	17.15	17.26	17.38	17.5	17.62	17.74	17.85	17.95	18.05	18.12	18.19	18.23	18.26	18.28	18.29	18.3	18.29	18.29	18.29	18.28	18.29	18.3	18.32	18.36	18.4	18.46
MFG_RI	40.73	40.8	40.87	40.94	41	41.06	41.11	41.15	41.19	41.22	41.24	41.24	41.24	41.23	41.21	41.17	41.12	41.06	41	40.92	40.85	40.77	40.7	40.63	40.56	40.5	40.45	40.41	40.38	40.36	40.35	40.35	40.36	40.37	40.39	40.41	40.43	40.45	40.47	40.48	40.5	40.5	40.51
EMPL_RI MFG_RI CONST_RI	477.05	477.68	478.3	478.92	479.54	480.14	480.73	481.31	481.88	482.44		483.47	483.98	484.47	484.94	485.38	485.82	486.22	486.61	486.99	487.36	487.73	488.08	488.43	488.79	489.15	489.52	489.9	490.29	490.68	491.07	491.45		492.18	492.5	492.8	493.07	493.31	493.51	493.66	493.76	493.84	493.9
BDD_N	673	262	131	19	0.4	13	156	437	760	1011	1125	835	673	262	131	19	0.4	13	156	437	760	1011	1125	872	673	262	131	19	0.4	13	156	437	760	1011	1125	835	673	262	131	19	0.4	13	156
TIME	2014.25	2014.33	2014.42	2014.5	2014.58	2014.67	2014.75	2014.83	2014.92	2015	2015.08		2015.25	2015.33	2015.42	2015.5	2015.58	2015.67	2015.75	2015.83	2015.92	2016	2016.08	2016.17	2016.25	2016.33	2016.42	2016.5	2016.58		2016.75		20	2017	2017.08	2017.17	2017.25	2017.33	2017.42	2017.5	2017.58	2017.67	2017.75
DATE	14-Apr	14-May	14-Jun	14-Jul	14-Aug	14-Sep	14-0ct	14-Nov	14-Dec	15-Jan	15-Feb	15-Mar	15-Apr	15-May	15-Jun	15-Jul	15-Aug	15-Sep	15-0ct	15-Nov	15-Dec	16-Jan	16-Feb	16-Mar	16-Apr	16-May	16-Jun	16-Jul	16-Aug	16-Sep	16-0ct	16-Nov	16-Dec	17-Jan	17-Feb	17-Mar	17-Apr	17-May	17-Jun	17-Jul	17-Aug	17-Sep	17-Oct

	467.93	468.01	468.09	468.17	468.25	468.32	468.4	468.47	468.55	468.62	468.68	468.75	468.82	468.89	468.95	469.02	469.09	469.16	469.23	469.31	469.39	469.48	469.57	469.66	469.75	469.85	469.94	470.03	470.13	470.22	470.31	470.4	470.48	470.57	470.64	470.72	470.8	470.88	470.96	471.04	471.12	471.2	471.3
TOTHSTOCK_RI	46	46	46	46	46	46	4	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	47	47	47	47	4	47	47	47	47	4	47	47	47	47	4	4
	68.43	68.51	68.58	29.89	68.79	68.95	69.11	69.26	69.41	69.57	69.74	69.92	70.12	70.34	70.51	9.02	70.56	70.44	70.29	70.16	70.02	69.83	69.57	69.24	88.89	68.5	68.21	68.11	68.24	68.48	68.65	68.62	68.5	68.45	85.89	68.82	80.69	69.26	69.41	69.59	69.85	70.17	70.5
	68	89	89	89	89	89	69	69	69	69	69	69	70	70	70	7	70	70	70	20	70	69	69	69	89	9	89	89	89	89	89	89	9	89	89	89	69	69	69	69	69	70	7
KE I SALES_KI																																											
	21587.33	21610.62	21632.78	21658.88	21693.96	21735.5	21775.84	21810.18	21839.6	21867.97	21897.93	21933.26	21977.01	22028.58	22076.33	22102.41	22100.97	22085.13	22075.84	22087.51	22113.96	22142.02	22160.04	22167.04	22164.81	22160.83	22180.85	22253.06	22390.53	22551.59	22667.86	22695.47	22663.56	22627.23	22624.98	22639.98	22639.3	22601.83	22542.81	22492.94	22467.09	22458.44	22453.81
INCOME_RI	228	228.31	228.62	228.97	229.41	229.92	230.41	230.84	231.2	231.54	231.88	232.28	232.76	233.31	233.82	234.1	234.08	233.91	233.81	233.93	234.21	234.51	234.71	234.79	234.78	234.75	234.98	235.76	237.23	238.95	240.2	240.51	240.18	239.81	239.8	239.97	239.98	239.6	238.99	238.48	238.22	238.15	238.13
POP_RI	1056.18	1056.49	1056.83	1057.16	1057.49	1057.82	1058.12			1058.79	1058.93		1059.09	1059.12	_	1059.14	1059.13		1059.1			1059.12		1059.19	1059.24	1059.3	1059.36	1059.43		1059.57	1059.64		1059.77		1059.89	1059.95	1060.01	1060.08	1060.15	1060.23	1060.32	1060.42	1060.53
HH_RI	425.21	425.16	425.14	425.14	425.17	425.23	425.32	425.45	425.61	425.81	426.04	426.3	426.58	426.88	427.21	427.52	427.85	428.19	428.53	428.86	429.19	429.51	429.82	430.11	430.38	430.63	430.86	431.07	431.25	431.4	431.53	431.63	431.69	431.72	431.73	431.71	431.68	431.64	431.6	431.56	431.52	431.5	431.5
_	53056.67	53092.6	53137.32	53188.44	53249.03	53322.3	53407.52	53505.52	53617.23	53743.03	53874.59	54009.37	54142.86	54270.5	54389.65	54488.97	54569.97	54630.67	54663.1	54663.07	54626.1	54551.83	54448.85	54322.78	54180.52	54028.64	53871.41	53723.01	53584.93	53461.47	53362	53292.92	53260.92	53268.06	53311.34	53387.68	53493.53	53626.05	53784.55	53954.59	54140.83	54346.91	54563 83
NONMFG_RI	453.45	453.52	453.63	453.77	453.97	454.24	454.6	455.06	455.63	456.32	457.08	457.89	458.72	459.56	460.38	461.1	461.75	462.31	462.73	462.99	463.06	462.93	462.64	462.21	461.67	461.04	460.36	459.66	458.97	458.29	457.67	457.13	456.71	456.4	456.21	456.14	456.17	456.3	456.52	456.82	457.19	457.65	458 18
	18.52	18.59	18.67	18.75	18.84	18.93	19.03	19.13	19.23	19.34	19.44	19.54	19.63	19.71	19.78	19.83	19.86	19.87	19.85	19.81	19.74	19.63	19.51	19.37	19.21	19.05	18.88	18.72	18.57	18.43	18.31	18.22	18.16	18.13	18.12	18.15	18.2	18.26	18.35	18.44	18.55	18.66	18 78
MFG_RI (40.51	40.51	40.5	40.49	40.48	40.46	40.43	40.4	40.36	40.32	40.27	40.22	40.16	40.09	40.01	39.92	39.82	39.72	39.6	39.47	39.32	39.16	39	38.83	38.66	38.48	38.3	38.13	37.97	37.81	37.66	37.53	37.41	37.3	37.21	37.14	37.07	37.02	36.98	36.96	36.93	36.92	36.91
BDD_N EMPL_RI MFG_RI CONST_RI	493.96	494.03	494.13	494.26	494.45	494.7	495.03	495.46	496	496.64	497.35	498.11	498.88	499.65	500.38	501.02	501.57	502.03	502.33	502.46	502.38	502.1	501.64	501.04	500.32	499.52	498.66	497.79	496.94	496.1	495.33	494.66	494.11	493.7	493.43	493.28	493.24	493.32	493.51	493.77	494.13	494.57	495.09
BDD_N	437	260	1011	1125	835	673	262	131	19	0.4	13	156	437	260	1011	1125	835		262	131	19	0.4	13	156	437	209	1011	1125	872	673	262		19	0.4	13	156	437	260	1011	1125	835	673	262
	2017.83	2017.92	2018	2018.08	2018.17	2018.25	2018.33	2018.42	2018.5	2018.58	2018.67	2018.75	2018.83	2018.92	2019	2019.08	2019.17	2019.25	2019.33	2019.42	2019.5	2019.58	2019.67	2019.75	2019.83	2019.92	2020	2020.08	2020.17	2020.25	2020.33	2020.42	2020.5	2020.58	2020.67	2020.75	2020.83	2020.92	2021	2021.08	2021.17	2021.25	2021 33
	17-Nov	17-Dec	18-Jan	18-Feb	18-Mar	18-Apr				18-Aug			18-Nov	18-Dec	19-Jan	19-Feb	19-Mar	19-Apr	19-Мау	19-Jun	19-Jul	19-Aug		19-0ct	19-Nov	19-Dec	20-Jan	20-Feb	20-Mar		20-May		20-Jul	20-Aug	20-Sep	20-0ct	20-Nov	20-Dec	21-Jan	21-Feb	21-Mar	21-Apr	21-May

	6	2	1	3	2	∞	7	9	1	9	7	6	9	4	3	3	7	3	3	4	2	2	_	6	2	7	4	9	∞	6	1	3	4	2	9	7	∞	6	2	1	1	7	7
RI	471.39	471.5	471.61	471.73	471.85	471.98	472.12	472.26	472.41	472.56	472.72	472.89	473.06	473.24	473.43	473.63	473.82	474.03	474.23	474.44	474.65	474.85	475.07	475.29	475.5	475.72	475.94	476.16	476.38	476.59	476.81	477.03	477.24	477.45	477.66	477.87	478.08	478.29	478.5	478.7	478.91	479.12	479.32
TOTHSTOCK_RI																																											
	70.78	71.02	71.26	71.51	71.76	72.01	72.23	72.45	72.65	72.86	73.08	73.29	73.5	73.7	73.91	74.12	74.33	74.54	74.74	74.94	75.12	75.3	75.48	75.64	75.79	75.92	76.04	76.15	76.24	76.33	76.41	76.48	76.54	76.6	76.67	76.75	76.82	76.91	77	77.1	77.2	77.31	77.42
RETSALES_RI																																											
ICP_RI	22443.48	22432.9	22431.79	22445.85	22471.42	22501.9		22564.58	22597.88	22635.14	22675.35	22713.78	22747.82	7.777.7	22805.6	22832.12	22857.21	22879.69	22898.91		22932.27		22965.61	22980.89	22993.86	2	23017.4	23030.08		23055.04			23084.08	23093.84	23104.43	23115.49	23126.86	23138.64		23164.14	23177.6		23205.18
INCOME_RI	238.05	237.97	238	238.19	238.51	238.88	239.25	239.64	240.05	240.49	240.97	241.43	241.84	242.21	242.55	242.88	243.19	243.46	243.71	243.93	244.14	244.35	244.57	244.77	244.94	245.1	245.27	245.44	245.62	245.79	245.94	246.08	246.22	246.36	246.52	246.68	246.84	247.01	247.19	247.37	247.56	247.75	247.94
POP_RI	1060.67	1060.82	1060.99	1061.18	1061.38	1061.58	1061.8	1062.03	1062.25	1062.47	1062.7	1062.93	1063.14	1063.35	1063.56	1063.75	1063.93	1064.11	1064.28	1064.45	1064.61		1064.93		1065.25		1065.59	1065.75		1066.1	1066.27		1066.62	1066.8	1066.98	1067.16	1067.35	1067.53	1067.72	1067.91	1068.1		1068.48
HH_RI	431.52	431.56	431.64	431.75	431.88	432.03	432.2	432.39	432.58	432.77	432.98	433.2	433.41	433.62	433.82	434.02	434.22	434.41	434.6	434.79	434.97	435.15	435.34	435.52	435.7	435.89	436.08	436.27	436.46	436.65	436.83	437.02	437.21	437.39	437.58	437.76	437.94	438.12	438.3	438.47	438.64	438.81	438.98
GDP_RI	54788.31	55017.33	55252.61	55485.69	55719.55	55953.43	56186.53	56421.89	56643.65	56862.49	57085.01	57302.91	57515.45	57721.84	57925.02	58118.54	58305.85	58487.17	58662.6	58835.07	58993.92	59147.65	59301.49	59450.24	59594.09	59733.16	59869.94	60000.4	60127.15	60250.61	60371.16	60491.13	60605.16	60717.51	60830.44	60942.42	61053.88	61165.18	61278.36	61389.79	61501.29	61612.86	61724.51
NONMFG_RI	458.77	459.41	460.12	460.86	461.64	462.45	463.28	464.15	464.98	465.82	466.68	467.54	468.39	469.21	470.02	470.8	471.54	472.25	472.93	473.59	474.17	474.73	475.26	475.74	476.18	476.58	476.94	477.24	477.51	477.75	477.97	478.16	478.33	478.48	478.63	478.78	478.92	479.08	479.24	479.4	479.57	479.75	479.93
	18.9	19.02	19.14	19.25	19.36	19.47	19.57	19.67	19.76	19.84	19.93	20.01	20.09	20.16	20.23	20.29	20.35	20.41	20.46	20.5	20.54	20.58	20.61	20.64	20.67	20.69	20.71	20.72	20.73	20.74	20.74	20.75	20.75	20.75	20.75	20.75	20.76	20.76	20.76	20.76	20.77	20.77	20.77
MFG_RI (36.91	36.91	36.92	36.92	36.93	36.92	36.98	36.97	36.99	37	37.01	37.03	37.04	37.04	37.05	37.05	37.05	37.05	37.04		37.02	37	36.98	36.92	36.92	36.89	36.85	36.8	36.75	36.7	(1)		36.54	36.49	36.43	36.37	36.32	36.26		(1)	36.1	36.05	38
EMPL_RI MFG_RI CONST_RI	495.68	496.32	497.04	497.78			500.24	501.12	501.97	502.82	503.7	504.57	505.42	506.25	507.07	507.85	508.59	509.3	509.97	510.62	511.19	511.73	512.23	512.69	513.11		513.78	514.04	514.27	514.46			514.87	514.97	515.06	515.15	515.24	515.34		515.55	515.67		515.93
BDD_N	131	19	0.4	13	156	437	260	1011	1125	835	673	262	131	19	0.4	13	156	437	760	1011	1125	835	673	262	131	19	0.4	13	156	437	760	1011	1125	872	673	262	131	19	0.4	13	156	437	760
TIME	2021.42	2021.5	2021.58	2021.67	2021.75		2021.92	2022	2022.08	2022.17	2022.25		2022.42	2022.5	2022.58	2022.67	2022.75	2022.83	2022.92	2023	2023.08		2023.25		2023.42		2023.58			2023.83	20		2024.08	2024.17	2024.25	2024.33	, ,	2024.5			2024.75		2024.92
DATE	21-Jun	21-Jul	21-Aug	21-Sep	21-0ct	21-Nov	21-Dec	22-Jan	22-Feb	22-Mar	22-Apr	22-May	22-Jun	22-Jul	22-Aug	22-Sep	22-0ct	22-Nov	22-Dec	23-Jan	23-Feb	23-Mar	23-Apr	23-May	23-Jun	23-Jul	23-Aug	23-Sep	23-Oct	23-Nov	23-Dec	24-Jan	24-Feb	24-Mar	24-Apr	24-May	24-Jun	24-Jul	24-Aug	24-Sep	24-Oct	24-Nov	24-Dec

	3	3	7	3	3	3	4	4	4	2	2	2	9	2	2	2	2	2	4	2	4	4	3	7	7	2	8	7	9	4	7	1	6	7	4	7	6	9	3	7	_	3	I 2
II	479.5	479.73	479.92	480.13	480.33	480.53	480.74	480.94	481.14	481.35	481.55	481.75	481.96	482.15	482.35	482.55	482.75	482.95	483.14	483.35	483.54	483.74	483.93	484.12	484.32	484.5	484.68	484.87	485.06	485.24	485.42	485.61	485.79	485.97	486.14	486.32	486.49	486.66	486.83	487	487.17	487.33	487.5
TOTHSTOCK_RI																																											
_	77.54	77.65	77.76	77.87	77.98	78.09	78.2	78.3	78.4	78.5	78.59	78.69	78.78	78.86	78.94	79.02	79.1	79.19	79.27	79.36	79.45	79.54	79.63	79.72	79.82	79.91	80	80.1	80.2	80.3	80.41	80.53	80.65	80.77	80.89	81.02	81.14	81.27	81.39	81.51	81.63	81.75	81.87
RETSALES_RI																																											
ICP_RI	23219.37	23233.04	23246.93	23261.67	23276.94	23292.85	23309.4	23326.81	23344.44	23362.44		23398.92	23417.54	23435.29	23453.11	23471.78	23490.94	23510.75	23531.26		23574.66	23597.04	23619.77	23642.73	23666.28	23688.89	23711.79	23735.95	23760.89	23786.82	23813.77			23899.91		23959.19	23989.43		24047.48	24076.68	24105.78	24134.85	24163.9
INCOME_RI	248.14	248.33	248.52	248.72	248.93	249.14	249.37	249.6	249.83	250.07	250.31	250.55	250.79	251.03	251.26	251.5	251.75	252	252.27	252.54	252.81	253.09	253.37	253.66	253.95	254.23	254.51	254.8	255.1	255.41	255.74	256.07	256.41	256.75	257.1	257.44	257.79	258.13	258.47	258.8	259.14	259.48	259.81
POP_RI	1068.67	1068.86	1069.04	1069.23	1069.43	1069.62	1069.81	1070.01	1070.2	1070.39	1070.58	1070.77	1070.97	1071.15	1071.33	1071.51	1071.69	1071.87	1072.05	1072.22	1072.39	1072.56	1072.72	1072.88	1073.04	1073.19	1073.34	1073.48	1073.63	1073.76	1073.9			1074.27	1074.39	1074.5	1074.62	1074.72	1074.82	1074.92	1075.01	1075.11	1075.19
HH_RI	439.15	439.31	439.46	439.63	439.79	439.95	440.12	440.28	440.45	440.61	440.77	440.93	441.09	441.24	441.39	441.55	441.7	441.85	441.99	442.14	442.28	442.41	442.55	442.68	442.81	442.94	443.06	443.19	443.31	443.43	443.56	443.68	443.8	443.92	444.04	444.16	444.28	444.4	444.51	444.62	444.73	444.84	444.95
GDP_RI	61838.06	61946.2	62054.42	62166.39	62278.44	62390.58	62502.81	62617	62729.53	62842.3	62955.37	63068.8	63184.52	63295.1	63406.19	63521.64	63637.75	63754.57	63872.18	63992.53	64111.75	64231.74	64352.5	64474.01	64598.27	64717.2	64836.8	64961.14	65086.16	65211.84	65338.17	65467.19	65594.63	65722.47	65850.63	62629	66109.59	66236	66362.32	66490.59	66618.59	66746.22	66873.4
NONMFG_RI	480.12	480.3	480.48	480.67	480.86	481.05	481.25	481.44	481.63	481.81	482	482.19	482.38	482.55	482.73	482.91	483.1	483.28	483.46	483.64	483.82	484	484.18	484.37	484.55	484.73	484.9	485.09	485.27	485.46	485.65	485.85	486.04	486.23	486.43	486.63	486.83	487.03	487.22	487.43	487.63	487.84	488.04
	20.78	20.78	20.78	20.78	20.78	20.78	20.78	20.77	20.76	20.76	20.75	20.74	20.73	20.71	20.7	20.69	20.68	20.67	20.66	20.65	20.64	20.63	20.62	20.61	20.6	20.6	20.59	20.58	20.57	20.57	20.56	20.55	20.54	20.54	20.53	20.52	20.51	20.51	20.5	20.49	20.49	20.48	20.48
MFG_RI (35.95	35.9	35.86	35.81	35.76	35.71	35.67	35.62	35.57	35.52	35.47	35.43	35.38	35.33	35.29	35.24	35.2	35.15	35.11	35.06	35.02	34.98	34.93	34.89	34.85	34.81	34.77	34.73	34.69	34.65	34.61	34.57	34.53	34.49	34.46	34.42	34.38	34.35	34.31	34.27	34.24	34.2	34.17
EMPL_RI MFG_RI CONST_RI	516.07	516.2	516.34	516.48	516.62	516.77	516.91	517.06	517.2	517.34	517.48	517.61	517.76	517.89	518.02	518.16	518.29	518.43	518.57	518.71	518.84	518.98	519.12	519.26	519.4	519.53	519.67	519.82	519.96	520.11					520.89	521.05	521.21	521.37	521.54	521.7	521.87	522.04	522.21
BDD_N	1011	1125	835	673	262	131	19	0.4	13	156	437	260	1011	1125	835	673	262	131	19	0.4	13	156	437	260	1011	1125	832	673	262	131	19	0.4	13	156	437	260	1011	1125	872	673	262	131	19
TIME	2025	2025.08	2025.17	2025.25	2025.33	2025.42	2025.5	2025.58	2025.67	2025.75	2025.83	2025.92	2026	2026.08	2026.17	2026.25	2026.33	2026.42	2026.5	2026.58	2026.67	2026.75	2026.83	2026.92	2027	2027.08	2027.17	2027.25	2027.33	2027.42	2027.5	2027.58	2027.67	2027.75	2027.83	2027.92	2028	2028.08	2028.17	2028.25	2028.33	2028.42	2028.5
DATE	25-Jan	25-Feb	25-Mar	25-Apr	25-May	25-Jun	25-Jul	25-Aug	25-Sep	25-Oct		25-Dec	26-Jan	26-Feb	26-Mar	26-Apr	26-May	26-Jun	26-Jul	26-Aug	26-Sep	26-Oct	26-Nov	26-Dec	27-Jan	27-Feb	27-Mar	27-Apr	27-May	27-Jun	27-Jul	27-Aug	27-Sep	27-0ct	27-Nov	27-Dec	28-Jan	28-Feb	28-Mar	28-Apr	28-May	28-Jun	28-Jul

_	487.66	487.82	487.98	488.14	488.3	488.46	488.61	488.75	488.91	489.06	489.21	489.36	489.51	489.66	489.81	489.96	490.1	490.25	490.39	490.53	490.68	490.82	490.96	491.1	491.25	491.39	491.53	491 67	10.1.C.	491.81	491.81
TOTHSTOCK R	l																														
И	81.99	82.11	82.23	82.35	82.46	82.58	85.68	82.79	82.89	83	83.11	83.22	83.33	83.45	83.56	83.67	83.78	83.89	84	84.11	84.22	84.33	84.45	84.57	84.69	84.81	84.93	85.05		85.18	85.18 85.3
RETSALES RI	I																														
ICP RI	24193.41	24222.48	24251.44	24280.11	24308.34	24336.61	24363.18	24389.53	24416.72	24444.09	24471.83	24500.01	24529.09	24558.04	24587.16	24616.2	24645	24673.94	24701.14	24728.01	24755.65	24783.39	24811.39	24839.63	24868.47	24896.89	24925.27	24953.46		24981.36	
INCOME RI	260.15	260.48	260.81	261.14	261.46	261.78	262.08	262.38	262.69	263	263.31	263.63	263.96	264.28	264.61	264.93	265.26	265.58	265.88	266.18	266.49	266.8	267.11	267.42	267.74	268.05	268.36	268.67	00 000	268.98	268.98 269.29
POP RI	1075.28	1075.37	1075.45	1075.52	1075.6	1075.67	1075.74	1075.8	1075.87	1075.93	1075.99	1076.05	1076.1	1076.16	1076.21	1076.26	1076.31	1076.35	1076.39	1076.43	1076.47	1076.51	1076.55	1076.58	1076.61	1076.64	1076.67	1076.7		10/b./3	
H R	445.06	445.16	445.27	445.37	445.47	445.57	445.67	445.77	445.87	445.97	446.07	446.17	446.28	446.38	446.49	446.59	446.7	446.8	446.91	447.01	447.11	447.21	447.31	447.41	447.51	447.6	447.7	447.79	00 711	447.00	447.97
GDP RI	67002.19	67128.5	67254.48	67380.21	67505.75	67633.24	67754.53	67875.85	68001.39	68127.11	68253.08	68379.37	68508.1	68635.08	68762.39	06889	69017.89	69148.15	69272.34	69396.75	69525.58	69654.6	69783.79	69913.14	70044.76	70174.41	70304.22	70434.2	70.67.75	/ 0504.35	70696.81
NONMFG RI	488.25	488.46	488.67	488.88	489.09	489.3	489.51	489.72	489.94	490.15	490.37	490.6	490.82	491.05	491.28	491.5	491.73	491.97	492.19	492.41	492.64	492.87	493.1	493.33	493.56	493.79	494.01	494.24	30 000	494.40	494.40
BDD N EMPL RI MFG RI CONST RI	7	20.47	20.46	20.46	20.46	20.46	20.45	20.45	20.45	20.45	20.45	20.45	20.45	20.45	20.46	20.46	20.46	20.46	20.47	20.47	20.47	20.48	20.48	20.48	20.49	20.49	20.49	20.49	1	20.5	20.5
MFG RI	34.13	34.09	34.06	34.02	33.99	33.95	33.92	33.88	33.85	33.82	33.78	33.75	33.71	33.68	33.64	33.61	33.58	33.54	33.51	33.48	33.45	33.41	33.38	33.35	33.32	33.28	33.25	33.22	0,000	33.19	33.19
EMPL RI	522.38	522.55	522.73	522.9	523.08	523.26	523.43	523.6	523.79	523.97	524.16	524.34	524.54	524.73	524.92	525.11	525.31	525.51	525.7	525.89	526.09	526.28	526.48	526.68	526.88	527.07	527.26	527.46	13 CC	327.03	527.84
BDD N	0.4	13	156	437	260	1011	1125	835	673	797	131	19	0.4	13	156	437	092	1011	1125	835	673	797	131	19	0.4	13	156	437	032	700	1011
TIME	2028.58	2028.67	2028.75	2028.83	2028.92	2029	2029.08	2029.17	2029.25	2029.33	2029.42	2029.5	2029.58	2029.67	2029.75	2029.83	2029.92	2030	2030.08	2030.17	2030.25	2030.33	2030.42	2030.5	2030.58	2030.67	2030.75	2030.83	20000		
	28-Aug	28-Sep	28-Oct	28-Nov	28-Dec	29-Jan	29-Feb	29-Mar	29-Apr	29-May	29-Jun	29-Jul	29-Aug	29-Sep	29-Oct	29-Nov	29-Dec	30-Jan	Feb-30	30-Mar	30-Apr	30-Мау	30-Jun	30-Jul	30-Aug	30-Sep	30-Oct	30-Nov	20 00	ט-טבר	31-Jan

DATE	NGPRCR_RI	NGPRCC_RI	NGPRCI_RI	OILPRCR_RI	OILPRCC_RI	OILPRCI_RI	GORR_RI	GORC_RI	GORI_RI
Sep-10	24.89	19.97	15.29	23.71	21.36	21.43	1.05		0.714
Oct-10	21.28	18.37	15.11	25.34	22.3	22.51	0.84	0.824	0.671
Nov-10	17.92	15.93	14.21	26.14	23.05	23.1	0.685	0.691	0.615
Dec-10	16.06	14.7	13.64	27.36	24.35	24.34	0.587	0.604	0.56
Jan-11	16.24	14.62	13.25	28.73	25.64	25.33	0.565	0.57	0.523
Feb-11	16.93	14.94	13.22	30.05	26.89	26.64	0.563	0.556	0.496
Mar-11	17.34	14.75	12.66	32.54	29.11	28.85	0.533	0.507	0.439
Apr-11	19.79	15.77	11.81	32.25	28.86	28.59	0.614	0.547	0.413
May-11	21.58	17.82	11.12	31.98	28.61	28.35	0.675		0.392
Jun-11	22.73	19.19	11.27	31.74	28.4	28.14	0.716		0.401
Jul-11	23.89	19.78	14.04	31.52	28.2	27.94	0.758		0.502
Aug-11	23.2 20.98	20.38 19.32	13.71 12.6	31.31 31.12	28.02 27.85	27.76 27.59	0.741 0.674	0.727 0.694	0.494 0.457
Sep-11 Oct-11	18.76		12.0	30.93	27.67	27.59	0.674	0.694	0.437
Nov-11	16.70	14.46	11.88	31.97	28.6	28.34	0.531	0.506	0.419
Dec-11	15.16	13.54	11.88	31.25		27.71	0.485	0.484	0.419
Jan-12	14.76		11.57	32.28		28.62	0.457	0.471	0.404
Feb-12	15.7	13.58	10.52	33.33	29.82	29.55	0.471	0.455	0.356
Mar-12	15.92	13.75	9.85	33.86		30.02	0.47	0.454	0.328
Apr-12	18.05	15.21	10.54	33.69	30.15	29.87	0.536	0.505	0.353
May-12	20.27	15.58	10.86	33.52	29.99	29.72	0.605	0.519	0.365
Jun-12	20.06	18.61	11.61	33.32	29.82	29.54	0.602	0.624	0.393
Jul-12	21.18	18.56	12.21	33.11	29.63	29.36	0.64	0.626	0.416
Aug-12	21.64	18.51	12.06	32.89	29.43	29.16	0.658	0.629	0.414
Sep-12	21.84	15.66	11.94	32.66		28.96	0.669	0.536	0.412
Oct-12	16.52	14.14	12.21	32.43		28.75	0.509	0.487	0.425
Nov-12	13.69	12.38	11.13	32.35	28.95	28.68	0.423	0.428	0.388
Dec-12	13.31	11	8.33	32.17	28.79	28.52	0.414	0.382	0.292
Jan-13	14	12.4	9	32.41	29	28.73	0.432	0.428	0.313
Feb-13	15.4 16.24	13.07	8.93 9.58	33.51 32.7	29.99 29.26	29.71	0.46 0.497	ł	0.301
Mar-13 Apr-13	19.45	13.74 14.65	9.58	32.7	29.26	28.99 28.83	0.497	0.47 0.504	0.33 0.347
May-13							0.538		
Jun-13			10.6			28.4	0.67		0.373
Jul-13						28.13	0.731		
Aug-13						27.87	0.736		
Sep-13			11.03	31.17		27.64	0.667	0.585	
Oct-13	16.51	13.88	11	30.93	27.67	27.42	0.534	0.501	0.401
Nov-13	13.84	12.61	9.67	31.17	27.89	27.64	0.444	0.452	0.35
Dec-13	14.59	12.45	9.55	32.26		28.6	0.452	0.431	0.334
Jan-14	14.47	12.51	9.57	32.97		29.23	0.439		0.327
Feb-14	14.58		9.67	33.96		30.11	0.429		
Mar-14						29.59	0.438		0.334
Apr-14			10.23			28.8	0.499		
May-14			12.36			28.01	0.62		0.441
Jun-14	22.55	20.4	11.61	30.72	27.49	27.24	0.734	0.742	0.426

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Jul-14	24.75	22.23	13.73	29.85	26.71	26.46	0.829	0.832	0.519
Aug-14	25.36	21.44	12.48	28.98	25.93	25.7	0.875	0.827	0.486
Sep-14	25.02	20.43	12.34	28.12	25.17	24.93	0.89	0.812	0.495
Oct-14	23.51	19.72	12.92	27.29	24.42	24.19	0.862	0.808	0.534
Nov-14	18.4	15.91	11.66	27.11	24.26	24.04	0.679	0.656	0.485
Dec-14 Jan-15	14.9 14.43	12.19 12.25	10.09 9.95	25.02 22.34	22.39 19.99	22.19 19.81	0.596 0.646	0.544	0.455 0.502
Feb-15	14.43	12.23	9.95	24.52	21.94	21.74	0.576	0.613 0.553	0.302
Mar-15	14.12	12.13	9.82	23.62	21.13	20.94	0.604	0.575	0.453
Apr-15	15.1	12.76	10.01	21.49	19.22	19.05	0.703	0.664	0.525
May-15	17.12	14.12	10.57	21.34	19.1	18.92	0.802	0.739	0.559
Jun-15	19.32	16.68	10.15	21.38	19.13	18.95	0.904	0.872	0.536
Jul-15	21.35	17.99	10.39	21.36	19.11	18.94	0.999	0.941	0.549
Aug-15	22.63	18.4	10.91	21.35	19.1	18.93	1.06		0.576
Sep-15	22.68	18.5	10.58	16.58	14.83	14.7	1.368	1.247	0.72
Oct-15	20.56	17.02	10.71	19.97	17.87	17.7	1.03	0.953	0.605
Nov-15	16.71	13.92	10.24	19.54	17.49	17.32	0.855	0.796	0.591
Dec-15	14.57	11.85	8.88	18.06	16.16	16.01	0.807	0.733	0.555
Jan-16	13.75	11.2	9.3	16.97	15.19	15.05	0.81	0.738	0.618
Feb-16	13.34	10.91	9.12	16.64	14.89	14.75	0.802	0.733	0.618
Mar-16	13.63	11.13	9.06	17.07	15.28	15.14	0.798	0.728	0.598
Apr-16	14.43	11.61	9.43	15.08	13.5	13.37	0.957	0.86	0.705
May-16	15.55	12.35	9.56	16.31	14.59	14.46	0.953	0.846	0.661
Jun-16	18.1	14.55	9.39	16.91	15.14	15	1.07	0.961	0.626
Jul-16	20.55	16.51	9.54	16.97	15.19	15.05	1.211	1.087	0.634
Aug-16	21.77	16.87	9.85	18.76	16.78	16.63	1.161	1.005	0.593
Sep-16	21.61	17.44	9.77	16.53	14.79	14.65	1.308	1.179	0.667
Oct-16	19.07	15.46	9.59	19.06	17.06	16.9	1	0.907	0.567
Nov-16	15.14	12.18	9.37	19.17	17.15	16.99	0.79	0.71	0.551
Dec-16	13.77	10.86	8.46	20.57	18.4	18.23	0.67	0.59	0.464
Jan-17	13.25	10.56	8.49	21.06	18.85	18.67	0.629	0.56	0.455
Feb-17 Mar-17	13.38 13.45	10.99 10.96	8.77 8.83	20.92 20.8	18.72 18.61	18.55 18.44	0.639 0.647	0.587 0.589	0.473 0.479
Apr-17			9.13	18.5	16.55	16.44	0.647		0.479
May-17	15.88	12.67	9.13	18.01	16.12	15.97	0.73	0.876	0.564
Jun-17	17.25		8.88	17.15	15.34	15.2	1.006		0.584
Jul-17	20.13		9.19	16.95	15.17	15.03	1.188		0.611
Aug-17	21.16		9.16	17.7	15.84	15.69	1.195	1.041	0.584
Sep-17	20.82	16.14	8.98	18.53	16.58	16.43	1.124	0.974	0.546
Oct-17	20.1	15.66	8.76	19	17	16.84	1.058		0.52
Nov-17	15.93		8.77	19.9	17.81	17.64	0.8		0.497
Dec-17	14.51	11.76	8.93	20.56	18.4	18.23	0.706		0.49
Jan-18	13.63		8.91	22.95	20.53	20.35	0.594	0.548	0.438
Feb-18	13.94		9.03	21.87	19.57	19.39	0.637	0.588	0.465
Mar-18	15.33		10.44	21.32	19.08	18.9	0.719	0.677	0.552
Apr-18		14.02	11.6	21.79	19.5	19.32	0.774	0.719	0.601
May-18		14.8	11.71	22.31	19.97	19.78	0.822	0.741	0.592

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Jun-18	21.28	17.16	11.73	22.29	19.95	19.76	0.954	0.86	0.594
Jul-18	24.48	18.84	11.88	22.16	19.83	19.65	1.105		0.605
Aug-18	26.15	19.35	11.19	21.98	19.66	19.48	1.19	0.984	0.574
Sep-18	25.18	19.57	11.32	22.53	20.16	19.98	1.117	0.971	0.567
Oct-18	20.78	18.12	11.55	23.46	20.99	20.8	0.886	0.863	0.555
Nov-18	16.55	14.27	10.72	23.13	20.7	20.51	0.715	0.689	0.522
Dec-18	15.12	12.57	9.83	21.67	19.39	19.21	0.698	0.648	0.512
Jan-19	14.84	12.42	9.79	21.09	18.87	18.69	0.704	0.658	0.524
Feb-19	14.59	12.22	9.66	21.58	19.31	19.14	0.676		0.505
Mar-19	14.65	12.28	9.67	21.81	19.52	19.34	0.671	0.629	0.5
Apr-19	15.19	12.48	10.05	21.82	19.52	19.35	0.696		0.52
May-19	16.16	13.47	10.18	21.77	19.48	19.3	0.743	0.692	0.527
Jun-19	18.09	15.54	10.11	20.64	18.47	18.3	0.877	0.841	0.553
Jul-19	20.84	18.58	10.4	20.36	18.22	18.05	1.023	1.02	0.576
Aug-19	21.79	19.07	10.22	20.2	18.07	17.91	1.079	1.055	0.571
Sep-19	21.31	18.24	9.62	20.26	18.13	17.96	1.052	1.006	0.536
Oct-19	19.41	16.97	9.63	19.15	17.13	16.98	1.014	0.991	0.567
Nov-19	15.43	12.95	9.22	19.56	17.51	17.34	0.789	0.74	0.532
Dec-19	13.36	10.64	8.05	19.99	17.89	17.73	0.668	0.594	0.454
Jan-20	13.62	10.7	7.96	20.33	18.19	18.03	0.67	0.588	0.442
Feb-20	13.33	10.22	7.55	18.18	16.27	16.12	0.733	0.628	0.468
Mar-20	12.96	9.69	7.41	17.26	15.45	15.31	0.751	0.628	0.484
Apr-20	12.99	9.59	7.92	16.18	14.47	14.34	0.803	0.662	0.552
May-20	14.24	10.15	8.24	15.88	14.21	14.08	0.896	0.714	0.585
Jun-20	15.5	11.49	8.5	15.65	14	13.87	0.991	0.82	0.613
Jul-20	17.44	13.52	9.57	15.26	13.66	13.53	1.142	0.99	0.707
Aug-20	17.97	13.22	8.84	15.07	13.48	13.36	1.193	0.98	0.661
Sep-20	17.91	13.81	9.49	15.22	13.62	13.49	1.177	1.014	0.703
Oct-20	15.83	13.54	9.98	15.94	14.26	14.13	0.993	0.95	0.706
Nov-20	13.98	10.69	9.72	16.32	14.6	14.47	0.857	0.732	0.672
Dec-20	11.75	8.98	8.18 8.57	16.68	14.93	14.79	0.704	0.602	0.553
Jan-21 Feb-21	11.96 12.12	9.45 9.21	8.25	20.73 18.54	17.82 15.94	17.7 15.83	0.577 0.654	0.53 0.578	0.484 0.521
Mar-21	12.12	9.21	8.03	17.6	15.14	15.03	0.634		
Apr-21	12.14	9.12	8.5	16.5	14.18	14.09	0.889		0.534
May-21	13.75	10.26	8.79	16.2	13.93	13.83	0.732	0.737	0.636
Jun-21	15.12	11.77	8.94	15.96	13.72	13.63	0.947	0.757	0.656
Jul-21	17.09	13.94	9.92	15.57	13.39	13.3	1.098	1.041	0.030
Aug-21	17.65	13.63	9.03	15.38	13.22	13.13	1.148		0.740
Sep-21	17.6	14.22	9.54	15.53	13.36	13.15	1.133		0.719
Oct-21	15.58	13.96	9.92	16.27	13.99	13.89	0.958		0.713
Nov-21	13.76	11.02	9.56	16.66	14.33	14.23	0.826		0.672
Dec-21	11.55	9.24	7.98	17.04	14.65	14.55	0.678		0.548
Jan-22	12.31	9.97	8.2	21.41	17.68	17.61	0.575		0.465
Feb-22	12.47	9.73	7.9	19.15	15.82	15.75	0.651	0.615	0.501
Mar-22	12.49	9.63	7.68	18.19	15.02	14.96	0.686		0.513
Apr-22	12.76	9.98	8.13	17.05	14.08	14.02	0.749		0.58
741-77	12.70	5.56	0.13	17.03	14.00	14.02	0.743	0.703	0.50

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May-22	14.15	10.84	8.42	16.74	13.82	13.77	0.845	0.784	0.611
Jun-22	15.55	12.43	8.56	16.49	13.62	13.57	0.943	0.912	0.631
Jul-22	17.59	14.72	9.5	16.09	13.29	13.24	1.093	1.108	0.717
Aug-22	18.16	14.39	8.64	15.89	13.12	13.07	1.143	1.097	0.661
Sep-22	18.11	15.02	9.13	16.05	13.25	13.2	1.128	1.133	0.692
Oct-22	16.03	14.74	9.49	16.81	13.88	13.83	0.954	1.062	0.687
Nov-22	14.15	11.64	9.15	17.21	14.21	14.16	0.822	0.819	0.646
Dec-22	11.88	9.75	7.64	17.6	14.53	14.48	0.675	0.671	0.527
Jan-23	12.37	10.19	7.75	21.9	17.39	17.37	0.565	0.586	0.446
Feb-23	12.53	9.94	7.47	19.59	15.56	15.53	0.64	0.639	0.481
Mar-23	12.55	9.84	7.26	18.6	14.77	14.75	0.675	0.666	0.492
Apr-23	12.82	10.2	7.69	17.43	13.84	13.82	0.736		0.556
May-23	14.21	11.07	7.96	17.12	13.59	13.57	0.831	0.814	0.586
Jun-23	15.63	12.69	8.09	16.86	13.4	13.38	0.927	0.948	0.605
Jul-23	17.67	15.04	8.98	16.45	13.07	13.05	1.074	1.151	0.688
Aug-23	18.25	14.7	8.17	16.24	12.9	12.88	1.123	1.139	0.634
Sep-23	18.19	15.34	8.63	16.41	13.03	13.01	1.109	1.177	0.663
Oct-23	16.1	15.06	8.97	17.18	13.65	13.63	0.937	1.103	0.658
Nov-23	14.22	11.89	8.65	17.6	13.98	13.96	0.808	0.85	0.62
Dec-23	11.93	9.96	7.22	17.99	14.29	14.27	0.663	0.697	0.506
Jan-24	12.77	10.77	7.66	22.61	17.29	17.31	0.565	0.623	0.442
Feb-24	12.94	10.51	7.38	20.22	15.46	15.49	0.64	0.68	0.476
Mar-24	12.95	10.4	7.18	19.2	14.68	14.71	0.675	0.708	0.488
Apr-24	13.24	10.78	7.6	17.99	13.76	13.78	0.736		0.551
May-24	14.67	11.7	7.86	17.67	13.51	13.53	0.831	0.866	0.581
Jun-24	16.13	13.42	8	17.41	13.31	13.33	0.927	1.008	0.6
Jul-24	18.24	15.9	8.87	16.99	12.99	13.01	1.074	1.224	0.682
Aug-24	18.84	15.54	8.07	16.77	12.82	12.84	1.123	1.212	0.628
Sep-24	18.78	16.22	8.53	16.94	12.95	12.97	1.109	1.252	0.657
Oct-24	16.62	15.92	8.87	17.74	13.57	13.59	0.937	1.173	0.652
Nov-24	14.68	12.57	8.54	18.17	13.89	13.91	0.808	0.904	0.614
Dec-24	12.32	10.53	7.13	18.58	14.2	14.23	0.663	0.742	0.501
Jan-25	13.19	11.37	7.78	23.09	17	17.07	0.571	0.669	0.456
Feb-25	13.36		7.5	20.65	15.21	15.27	0.647		
Mar-25	13.38	10.98	7.29	19.61	14.44	14.5	0.682		0.503
Apr-25	13.67	11.38	7.72	18.38	13.54	13.59	0.744		0.568
May-25	15.16	12.36	7.99	18.05	13.29	13.34	0.84	0.93	0.599
Jun-25	16.66	14.17	8.13	17.78	13.1	13.15	0.937	1.082	0.618
Jul-25	18.84	16.79	9.02	17.35	12.78	12.83	1.086		0.703
Aug-25	19.46	16.41	8.2	17.13	12.62	12.67	1.136		0.648
Sep-25	19.4	17.13	8.67	17.3	12.74	12.8	1.121	1.344	0.677
Oct-25	17.17	16.81	9.01	18.12	13.35	13.4	0.947	1.26	0.673
Nov-25	15.16	13.27	8.69	18.56	13.67	13.72	0.817	0.971	0.633
Dec-25	12.73	11.12	7.25	18.98	13.98	14.03	0.671	0.796	0.517
Jan-26	13.24	11.41	7.84	23.47	17.32	17.4	0.564	0.659	0.451
Feb-26	13.41	11.13	7.56	20.99	15.49	15.56	0.639		0.486
Mar-26	13.43	11.01	7.35	19.94	14.71	14.78	0.674	0.748	0.497

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Apr-26	13.73	11.41	7.78	18.68	13.79	13.85	0.735	0.828	0.562
May-26	15.22	12.39	8.05	18.34	13.54	13.6	0.829	0.916	0.592
Jun-26	16.73	14.21	8.19	18.08	13.34	13.4	0.925	1.065	0.611
Jul-26	18.91	16.84	9.08	17.63	13.01	13.07	1.072	1.294	0.695
Aug-26	19.53	16.45	8.26	17.41	12.85	12.91	1.122	1.281	0.64
Sep-26	19.47	17.17	8.73	17.59	12.98	13.04	1.107	1.323	0.67
Oct-26	17.24	16.86	9.08	18.42	13.59	13.65	0.936	1.24	0.665
Nov-26	15.22	13.31	8.75	18.86	13.92	13.98	0.807	0.956	0.626
Dec-26	12.77	11.15	7.3	19.29	14.23	14.3	0.662	0.784	0.511
Jan-27	13.34	11.49	7.95	23.54	17.37	17.45	0.567	0.662	0.456
Feb-27	13.52	11.21	7.66	21.06	15.53	15.61	0.642	0.722	0.491
Mar-27	13.53	11.09	7.45	20	14.75	14.82	0.677	0.752	0.503
Apr-27	13.83	11.5	7.89	18.74	13.82	13.89	0.738	0.832	0.568
May-27	15.33	12.49	8.17	18.4	13.57	13.64	0.833	0.92	0.599
Jun-27	16.85	14.32	8.3	18.13	13.37	13.44	0.93	1.07	0.618
Jul-27	19.06	16.96	9.21	17.69	13.05	13.11	1.077	1.3	0.703
Aug-27	19.68	16.57	8.38	17.46	12.88	12.94	1.127	1.287	0.647
Sep-27	19.62	17.3	8.85	17.64	13.01	13.07	1.112	1.329	0.677
Oct-27	17.36	16.98	9.21	18.47	13.63	13.69	0.94	1.246	0.672
Nov-27	15.33	13.4	8.87	18.92	13.95	14.02	0.811	0.961	0.633
Dec-27	12.87	11.23	7.4	19.34	14.27	14.33	0.665	0.788	0.517
Jan-28	13.39	11.52	7.9	23.89	17.66	17.75	0.561	0.652	0.445
Feb-28	13.57	11.24	7.61	21.36	15.8	15.88	0.635	0.711	0.479
Mar-28	13.59	11.12	7.41	20.29	15	15.08	0.67	0.741	0.491
Apr-28	13.89	11.53	7.84	19.01	14.06	14.13	0.73	0.82	0.555
May-28	15.39	12.52	8.11	18.67	13.8	13.87	0.824	0.907	0.585
Jun-28	16.92	14.35	8.25	18.39	13.6	13.67	0.92	1.055	0.603
Jul-28	19.13	17	9.15	17.94	13.27	13.33	1.066		0.686
Aug-28	19.75	16.61	8.32	17.71	13.1	13.17	1.115	1.268	0.632
Sep-28	19.69	17.34	8.8	17.89	13.23	13.3	1.101	1.311	0.661
Oct-28	17.43	17.02	9.15	18.74	13.86	13.93	0.93	1.228	0.657
Nov-28	15.39	13.43	8.81	19.19	14.19	14.26	0.802	0.947	0.618
Dec-28	12.92	11.26	7.36	19.62	14.51	14.58	0.658	0.776	0.504
Jan-29	13.32		7.82	24.11	17.84	17.93			
Feb-29	13.5	11.13	7.53	21.56	15.95	16.04	0.626		0.469
Mar-29	13.51	11.01	7.33	20.48	15.15	15.23	0.66		0.481
Apr-29	13.81	11.42	7.75	19.19	14.2	14.27	0.72		0.543
May-29	15.31	12.4	8.03	18.84	13.94	14.02	0.812	0.889	0.573
Jun-29	16.83	14.21	8.16	18.56	13.74	13.81	0.906		0.591
Jul-29	19.03	16.84	9.05	18.11	13.4	13.47	1.051	1.256	0.672
Aug-29	19.65	16.45	8.23	17.88	13.23	13.3	1.099	1.244	0.619
Sep-29	19.59	17.17	8.7	18.06	13.36	13.44	1.085	1.285	0.648
Oct-29	17.34	16.86	9.05	18.92	14	14.07	0.917	1.204	0.643
Nov-29	15.31	13.31	8.72	19.37	14.33	14.41	0.79	0.928	0.605
Dec-29	12.85	11.15	7.28	19.81	14.65	14.74	0.649	0.761	0.494
Jan-30	13.24	11.28	7.64	24.23	17.93	18.04	0.546		0.424
Feb-30	13.41	11	7.36	21.68	16.04	16.13	0.619	0.686	0.456

Mar-30	13.43	10.89	7.16	20.59	15.23	15.32	0.652	0.715	0.468
Apr-30	13.72	11.29	7.58	19.29	14.28	14.36	0.711	0.791	0.528
May-30	15.21	12.26	7.85	18.94	14.02	14.1	0.803	0.874	0.557
Jun-30	16.72	14.05	7.98	18.66	13.81	13.89	0.896	1.017	0.574
Jul-30	18.91	16.65	8.85	18.21	13.48	13.55	1.038	1.235	0.653
Aug-30	19.53	16.27	8.05	17.98	13.31	13.38	1.086	1.223	0.602
Sep-30	19.47	16.98	8.51	18.16	13.44	13.52	1.072	1.264	0.63
Oct-30	17.23	16.67	8.85	19.02	14.08	14.16	0.906	1.184	0.625
Nov-30	15.22	13.16	8.53	19.48	14.42	14.5	0.781	0.913	0.588
Dec-30	12.77	11.03	7.12	19.92	14.74	14.83	0.641	0.748	0.48
Jan-31	13.3	11.33	7.64	24.5	18.16	18.27	0.543	0.624	0.418
Feb-31	13.48	11.05	7.36	21.91	16.24	16.34	0.615	0.68	0.45
Mar-31	13.5	10.93	7.16	20.81	15.43	15.52	0.649	0.709	0.461

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464.08	764 17	404.14	404.4	45.404	1404	404.29	464.31	464.33	464.35	464.38	464.4	464.43	464.47	464.51	464.55	464.6	464.65	464.7	464.75	464.8	464.85	464.89	464.94	464.98	465.02	465.06	465.1	465.13	465.17	465.2	465.23	465.27	465.3	465.34	465.38	465.42	465.46	465.5	465.54	465.58	465.62	465.67
NO INCLUDIO																																										
61.69	61.83	61.07	60.54	62.03	62.09	62.11	62.11	62.09	62.09	62.14	62.22	62.32	62.42	62.52	62.57	62.59	62.59	62.61	62.67	62.74	62.8	62.81	62.76	65.69	62.59	62.48	62.37	62.27	62.21	62.22	62.33	62.49	62.6	62.64	62.64	62.68	62.8	65.99	63.17	63.32	63.44	63.55
19890 51	19896 2	10000 12	76 17001	100167	10040.7	19815.98	19/80.03	19746.23	19726.93	19730.22	19756.34	19801.48	19857.36	19916.38	19969.97	20013.14	20052.84	20096.85	20151.41	20207.92	20250.74	20268.56	20259.95	20228.89	20182.46	20124.38	20058.31	19989.82	19930.08	19895.41	19889.01	19895.84	19893.31	19867.98	19836.26	19822.67	19841.99	19884.12	19931.51	19971.78	20008.76	20048.04
209 45	202.43	209.40	71,000	203.17	200.00	208.53	208.13	207.75	207.53	207.56	207.83	208.31	208.91	209.55	210.13	210.61	211.05	211.53	212.13	212.74	213.21	213.41	213.32	212.99	212.5	211.87	211.17	210.43	209.79	209.41	209.34	209.41	209.38	209.12	208.8	208.68	208.91	209.39	209.93	210.4	210.83	211.29
1053.02	1052.02	1052.05	1052.6	1052.0	1052.40	1052.33	1052.21	1052.11	1052.03	1051.99	1051.98	1052	1052.05	1052.13	1052.23	1052.34	1052.45	1052.56	1052.67	1052.76	1052.84	1052.89	1052.91	1052.9	1052.87	1052.82	1052.76	1052.7	1052.63	1052.58	1052.53	1052.51	1052.52	1052.55	1052.63	1052.74	1052.89	1053.07	1053.27	1053.48	1053.71	1053.94
414 54	717.77	414.74 /1/ 0E	414.33	413.10	413.43	415.08	415.95	416.24	416.54	416.86	417.19	417.54	417.88	418.24	418.6	418.96	419.33	419.69	420.04	420.39	420.73	421.06	421.38	421.69	421.99	422.27	422.55	422.83	423.11	423.38	423.65	423.94	424.23	424.54	424.85	425.19	425.52	425.86	426.19	426.52	426.84	427.13
48974 2	48936.09	46930.09	46679.70	10.60094	46/29.00	48047.9	48566.6	48486.74	48415.72	48357.98	48318	48296.72	48292.86	48303.72	48326.85	48360.06	48401.68	48447.25	48495.84	48546.05	48594.76	48639.7	48678.62	48711.19	48736.96	48757.16	48772.58	48783.88	48791.92	48797.03	48800.27	48802.4	48803.98	48805.71	48808.34	48812.71	48819.51	48829.65	48843.92	48863.19	48888.72	48919.33
418.6	416.0	410.70	410.92	410.04	419.13	419.20	419.38	419.53	419.7	419.93	420.21	420.56	420.95	421.39	421.87	422.38	422.92	423.46	424.01	424.57	425.12	425.66	426.18	426.69	427.17	427.63	428.09	428.53	428.98	429.4	429.82	430.27	430.72	431.18	431.65	432.15	432.66	433.18	433.71	434.24	434.8	435.33
15.88	15.87	15.04	15.0	12.70	12.73	15.7	15.68	15.66	15.65	15.65	15.66	15.68	15.71	15.75	15.79	15.84	15.88	15.93	15.97	16.02	16.05	16.08	16.1	16.11	16.12	16.12	16.11	16.1	16.09	16.08	16.07	16.07	16.07	16.08	16.09	16.12	16.15	16.18	16.22	16.27	16.31	16.36
40 42	40.42	40.42	40.42	40.41	40.39	40.35	40.33	40.29	40.24	40.19	40.14	40.08	40.02	39.95	39.89	39.83	39.77	39.72	39.67	39.63	39.6	39.57	39.56	39.56	39.57	39.59	39.62	39.62	39.69	39.74	39.8	39.85	39.92	39.98	40.05	40.12	40.19	40.27	40.34	40.41	40.49	40.56
459.01	10:01	459.2	4539.34	710 TA	429.34	459.62	459./I	459.82	459.95	460.12	460.35	49.094	460.97	461.35	461.76	462.21	462.69	463.18	463.68	464.19	464.72	465.23	465.74	466.25	466.74	467.22	467.7	468.18	468.67	469.14	469.62	470.12	470.63	471.16	471.71	472.28	472.85	473.44	474.05	474.66	475.29	475.89
13 13	156	0CT	767	1,00	1011	1125	835	673	262	131	19	0	13	156	437	260	1011	1125	872	673	262	131	19	0.4	13	156	437	092	1011	1125	835	673	262	131	19	0.4	13	156	437	092	1011	1125
2010 67	2010.07	2010.73	2010.03	20.10.32	2011	2011.08	71.117	2011.25	2011.33	2011.42	2011.5	2011.58	2011.67	2011.75	2011.83	2011.92	2012	2012.08	2012.17	2012.25	2012.33	2012.42	2012.5	2012.58	2012.67	2012.75	2012.83	2012.92	2013	2013.08	2013.17	2013.25	2013.33	2013.42	2013.5	2013.58	2013.67	2013.75	2013.83	2013.92	2014	2014.08
Sen-10	Oct-10	Nov. 10	NOV-TO	Dec-10	Jail-11	rep-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14

	.71	.75	.79	.83	98.	5.9	.93	.97	466	.03	.07	6.1	.13	.17	6.2	.24	.28	.33	.37	.42	.47	.52	.57	.62	.67	.73	.78	.84	68.	.95	.01	90:	.12	.18	.24	7.3	.36						Puc 1-8-3 Page 2 of 6
	465.7	465.75	465.79	465.83	465.86	465.9	465.93	465.97	4	466.03	466.07	466.1	466.13	466.17	466.2	466.24	466.28	466.33	466.37	466.42	466.47	466.52	466.57	466.62	466.67	466.73	466.78	466.84	466.89	466.95	467.01	467.06	467.12	467.18	467.24	467.3	467.36	467.43	467.49	467.56	467.64	467.71	
TOTHSTOCK_RI																																											
RETSALES_	63.69	63.85	64.03	64.21	64.4	64.59	64.79	65.02	65.32	65.71	60.99	66.33	96.36	66.27	66.15	66.11	66.12	66.16	66.19	66.23	66.3	66.4	66.49	66.53	66.47	66.37	66.3	66.31	66.38	66.47	99.99	66.62	66.65	66.67	66.72	66.85	67.08	67.38	67.65	67.83	67.92	67.98	
			20228.45		20385.05	20469.21	20555.51	20654.51	20777.79	20927.51	21075.98	21175.24	21207.63	21194.6	21171.85	21167.34	21177.29	21188.56	21192.84	21194.81	21202.78	21220.1		21228.55		21145.57	21108.43	21099.25	21113.86	٠,	21164.4	21184.15		21207.54	21227.95	21273.37	21352.91	21451.99	21540.71	21598.68	21629.49	21646.48	
INCOME_RI	211.86	212.55	213.33	214.17	215.06	215.98	216.91	217.98	219.3	220.9	222.48	223.54	223.89	223.76	223.53	223.5	223.61	223.75	223.81	223.84	223.95	224.15	224.33	224.3	223.96	223.49	223.14	223.09	223.29	223.63	223.95	224.22	224.42	224.58	224.86	225.39	226.27	227.35	228.32	228.94	229.26	229.43	
	1054.16	1054.39	1054.6	1054.8	1054.98	1055.13	1055.26	1055.37	1055.46	1055.54	1055.6	1055.66	1055.71	1055.76	1055.81	1055.86	1055.91	1055.97	1056.04	1056.12	1056.21	1056.32				1056.91	1057.11	1057.33	1057.57	1057.85		1058.42		1058.98	1059.25	1059.47	1059.66	1059.82	1059.93	1059.98	1059.96		
HH_RI	427.4	427.65	427.88	428.07	428.22	428.34	428.42	428.46	428.48	428.47	428.44	428.4	428.34	428.27	428.2	428.12	428.04	427.96	427.88	427.81	427.75	427.68				427.46	427.42	427.38	427.35	427.32	427.29	427.25		427.14	427.06	426.95	426.81	426.64	426.42	426.17	425.86	425.5	
	48957.03	49004.05	49060.21	49126.22	49202.94	49291.12	49385.83	49486.2	49589.94	49694.84	49800.31	49897.51	49989.43	50076.92	50154.38	50219.69	50270.62	50307.63	50331.51	50345.07	50350.6	50350.23	50346.08	50340.6	50335.79	50333.7	50336.66	50346.8	50366.28	50396.42	50435.77	50484.19	50540.97	50605.58	50678.58	50754.31	50835.7	50925.07	51019.22	51117.49	51219.34	51326.29	
	435.87	436.43	436.99	437.54	438.1	438.66	439.21	439.76	440.3	440.84	441.38	441.88	442.38	442.9	443.4	443.9	444.39	444.88	445.35	445.81	446.27	446.71	447.15	447.57	447.98	448.38	448.78	449.16	449.53	449.9	450.25	450.6	450.95	451.3	451.66	452.01	452.37	452.75	453.15	453.57	454.01	454.48	
CONST_RI N	16.4	16.44	16.48	16.51	16.54	16.56	16.58	16.59	16.6	16.62	16.63	16.66	16.69	16.72	16.77	16.84	16.91	17.01	17.11	17.22	17.34	17.47	17.59	17.71	17.82	17.93	18.03	18.11	18.18	18.23	18.27	18.29	18.31	18.32	18.32	18.33	18.33	18.33	18.34	18.36	18.39	18.43	
MFG_RI	40.63	40.7	40.77	40.84	40.9	40.97	41.03	41.08	41.13	41.17	41.21	41.23	41.25	41.25	41.25	41.23	41.2	41.15	41.09	41.03	40.95	40.87	40.79	40.71	40.63	40.56	40.49	40.42	40.37	40.33	40.3	40.28	40.27	40.27	40.28	40.3	40.32	40.36	40.41	40.46	40.52	40.59	
	476.5	477.13	477.76	478.38	479.01	479.63	480.24	480.84	481.43	482.01	482.58	483.12	483.63	484.15	484.65	485.13	485.58	486.03	486.44	486.84	487.22	487.58	487.94	488.28	488.61	488.94	489.26	489.58	489.9	490.22	490.55	490.88	491.21	491.56	491.93	492.3	492.69	493.11	493.55	494.03	494.53	495.07	
	835	673	262	131	19	0.4	13	156	437	092	1011	1125	835	673	262		19	0.4	13	156	437	092	1011	1125	872	673	262	131	19	0.4	13	156	437	260	1011	1125	835	673	262	131	19	0.4	
TIME			2014.33	2014.42	2014.5	2014.58	2014.67	2014.75	2014.83	2014.92	2015	2015.08	2015.17	2015.25	2015.33		2015.5	2015.58	2015.67	2015.75	2015.83	2015.92	2016	2016.08	2016.17	2016.25	2016.33	2016.42	2016.5		2016.67	2016.75	2016.83	2016.92	2017	2017.08	2017.17	2017.25	2017.33	2017.42	2017.5	2017.58	
DATE	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	

																																											Puc 1-8-3 Page 3 of 6
	467.79	467.87	467.95	468.03	468.11	468.19	468.27	468.35	468.42	468.5	468.58	468.65	468.72	468.8	468.86	468.93	469	469.07	469.13	469.2	469.26	469.33	469.39	469.46	469.53	469.6	469.67	469.74	469.81	469.87	469.94	470.02	470.09	470.16	470.23	470.31	470.38	470.46	470.53	470.61	470.69	470.78	1 age 3 01 6
RETSALES_TOTHSTOCK_RI																																											
RETSALES_	68.04	68.08	68.1	68.09	68.09	68.13	68.23	68.39	68.55	68.7	68.83	68.97	69.13	69.32	69.52	69.73	69.94	70.11	70.23	70.33	70.42	70.49	70.56	70.61	70.65	69.02	70.73	70.79	70.85	70.92	70.99	71.05	71.12	71.18	71.25	71.34	71.44	71.56	71.68	71.81	71.95	72.09	
ICP_RI	21659.2	21666.66	21664.08	21650.23	21635.13	21632.51	21649.45	21679.47	21709.57	21730.71	21745.78	21761.7	21782.86	21810.12	21842.66	21878.71	21913.82	21940.21	21956.12	21965.1	21971.98	21981	21992.06	22003.86	22015.37	22028.37	22045.07	22066.86	22092.66	22118.84	22144.18	22167.91	22188.63	22206.03	22221.43	22237.12	22254.06	22272.01		22306.87	22323.64	22339.77	
INCOME_RI	229.53	229.57	229.5	229.3	229.08	229	229.12	229.39	229.66	229.85	229.98	230.14	230.36	230.65	231	231.4	231.79	232.09	232.28	232.4	232.5	232.62	232.75	232.88	233.01	233.15	233.33	233.56	233.83	234.1	234.35	234.59	234.8	234.97	235.12	235.28	235.45	235.63	235.8	235.98	236.14	236.31	
POP_RI	1059.74	1059.55	1059.33	1059.09	1058.83	1058.58	1058.34	1058.1	1057.9	1057.73	1057.61	1057.54	1057.51	1057.53	1057.57		1057.74	1057.84	1057.95	1058.06	1058.16	1058.26	1058.33	1058.38			1058.43	1058.41	1058.39	1058.35	1058.31	1058.26	1058.21	1058.15	1058.1	1058.04	1057.99	1057.95	1057.9	1057.86	1057.82	1057.79	
HH_RI	425.11	424.7	424.28	423.86	423.44	423.07	422.73	422.43	422.19	422.02	421.93	421.93	422	422.13	422.32	422.56	422.83	423.12	423.41	423.73	424.03	424.32	424.59	424.83	425.04	425.22	425.38	425.53	425.66	425.77	425.87	425.97	426.06	426.15	426.24	426.33	426.42	426.52	426.62	426.72	426.83	426.93	
GDP_RI	51435.11	51547.78	51664.51	51785.61	51913.38	52039.59	52170.64	52311.35	52457.69	52609.85	52768.08	52934.35	53101.6	53270.71	53439.89	53607.35	53773.99	53927.57	54074.48	54217.85	54350.66	54471.24	54577.84	54672.06	54752.87	54824.02	54887.76	54946.22	55002.52	55056.14	55111.02	55170.21	55235.07	55307.68	55390.23	55484.93	55588	55700.07	55820.18	55947.54	56083.44	56217.97	
NONMFG_RI	454.96	455.46	455.97	456.51	457.06	457.6	458.14	458.71	459.29	459.87	460.45	461.05	461.62	462.2	462.77	463.33	463.88	464.4	464.91	465.41	465.9	466.36	466.8	467.22	467.61	467.97	468.3	468.6	468.87	469.09	469.28	469.44	469.56	469.63	469.66	469.65	469.62	469.56	469.48	469.41	469.34	469.28	
CONST_RI N	18.47	18.53	18.59	18.66	18.73	18.8	18.87	18.94	19.01	19.08	19.15	19.21	19.26	19.32	19.36	19.41	19.45	19.49	19.52	19.56	19.59	19.63	19.66	19.69	19.73	19.76	19.79	19.82	19.85	19.88	19.91	19.93	19.96	19.98	20	20.03	20.04	20.06	20.08	20.1	20.12	20.14	
MFG_RI CO	40.67	40.75	40.83	40.91	40.98	41.06	41.12	41.18	41.23	41.27	41.3	41.31	41.31	41.3	41.28	41.25	41.22	41.18	41.14	41.09	41.04	41	40.95	40.9	40.86	40.82	40.77	40.73	40.68	40.64	40.59	40.53	40.47	40.41	40.34	40.27	40.19	40.11	40.03	39.94	39.86	39.77	
EMPL_RI N	495.62	496.2	496.8	497.41	498.04	498.65	499.26	499.9	500.52	501.14	501.75	502.36	502.94	503.5	504.05	504.58	505.1	505.58	206.05	506.5	506.94	507.36	507.75	508.13	508.47	508.79	509.08	509.33	509.55	509.73	509.87	509.97	510.03	510.04	510	509.92	509.81	99.605	509.51	509.35	509.19	209.06	
BDD_N E	13	156	437	092	1011	1125	835	673	262	131	19	0.4	13	156	437	092	1011	1125	835	673	262	131	19	0.4	13	156	437	092	1011	1125	872	673	262	131	19	0.4	13	156		092	1011	1125	
TIME	2017.67	2017.75	2017.83	2017.92	2018	2018.08	2018.17	2018.25	2018.33	2018.42	2018.5	2018.58	2018.67	2018.75	2018.83		2019	2019.08	2019.17	2019.25	2019.33	2019.42	2019.5	2019.58		2019.75	2019.83	2019.92	2020	2020.08		2020.25		2020.42	2020.5	2020.58	2020.67	2020.75		2020.92	2021	2021.08	
DATE	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	

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470.86	470.95	471.04	471.13	471.23	471.33	471.44	471.55	471.66	471.78	471.9	472.02	472.15	472.28	472.41	472.55	472.69	472.84	472.99	473.14	473.3	473.46	473.62	473.77	473.93	474.09	474.26	474.42	474.59	474.76	474.93	475.09	475.26	475.43	475.6	475.76	475.93	476.1	476.26	476.43	476.6	476.77	r age + (
72.23	72.38	72.54	72.71	72.89	73.07	73.25	73.43	73.61	73.79	73.97	74.14	74.31	74.47	74.64	74.79	74.94	75.09	75.22	75.35	75.47	75.59	75.7	75.8	75.89	75.98	76.07	76.16	76.25	76.35	76.44	76.53	76.62	76.71	76.81	76.9	77	77.1	77.2	77.31	77.42	77.54	
22356.69	22375.54				22472.96	22502.13	22532.37	22563.22	22594.29	22625.84	22655.68	22685.18		22744.41	22772.69	22799.54	22825.06	22848.47	22870.42	22891.19	22910.98	22930.11	22947.35	22963.71	22980.14	22996.63	23013.67	23031.52			23090.15		23131.73	23153.29	23174.29	23195.38	23217.09	23239.32	23262.23	23285.73	246.86 23310.04	
236.48	236.68	236.89	237.14	237.41	237.71	238.02	238.34	238.68	239.01	239.36	239.68	240	240.33	240.65	240.96	241.25	241.53	241.79	242.03	242.26	242.48	242.69	242.88	243.06	243.24	243.42	243.61	243.81	244.02	244.23	244.45	244.68	244.91	245.15	245.38	245.61	245.85	246.09	246.34	246.6	246.86	
1057.77	1057.75		1057.73		1057.74	1057.76	1057.79	1057.82	1057.85	1057.89	1057.93	1057.97	1058.02	1058.06	1058.11	1058.15	1058.19	1058.23	1058.27	1058.31	1058.35	1058.39	1058.42		1058.49	1058.52	1058.56	1058.59		7	1058.7		1058.77		1058.84	1058.87	1058.91	1058.94	1058.98	1059.01	1059.05	
427.04	427.16	427.29	427.42	427.56	427.7	427.85	428	428.16	428.32	428.48	428.63	428.79	428.95	429.11	429.26	429.41	429.56	429.7	429.84	429.98	430.11	430.25	430.37	430.49	430.62	430.74	430.87	430.99	431.12	431.24	431.36	431.48	431.6	431.73	431.85	431.97	432.09	432.22	432.34	432.46	432.59	
56356.87	56504.12	56654.26	56806.38	56959.66	57115.97	57269.9	57423.58	57576.68	57728.82	57882.11	58026.4	58168.77	58313.66	58455.8	58594.88	58730.53	58864.93	58994.15	59120.81	59245.35	59368.2	59491.79	59608.63	59725.1	59845.57	59966.52	60088.38	60211.57	60338.22	60463.97	60590.56	60717.69	60845.05	60974.43	61099.26	61223.44	61348.73	61472.74	61595.18	61715.75	61836.33	
469.25	469.25	469.29	469.38	469.53	469.75	470.01	470.32	470.67	471.04	471.45	471.85	472.25	472.67	473.08	473.47	473.84	474.18	474.5	474.8	475.07	475.33	475.58	475.81	476.04	476.26	476.49	476.71	476.94	477.18	477.42	477.66	477.91	478.16	478.41	478.65	478.9	479.14	479.39	479.63	479.87	480.11	
20.16	20.19	20.21	20.24	20.27	20.31	20.35	20.38	20.42	20.47	20.51	20.55	20.58	20.62	20.65	20.68	20.71	20.73	20.75	20.77	20.78	20.79	20.8	20.81	20.81	20.82	20.82	20.82	20.83	20.83	20.84	20.84	20.85	20.86	20.86	20.87	20.88	20.88	20.89	20.9	20.9	20.91	
39.7	39.62	39.54	39.48	39.41	39.36	39.31	39.26	39.22	39.19	39.15	39.12	39.09	39.06	39.02	38.99	38.95	38.91	38.86	38.81	38.77	38.72	38.66	38.61	38.56	38.51	38.45	38.4	38.35	38.3	38.25	38.2	38.15	38.1	38.06	38.01	37.96	37.92	37.87	37.83	37.78	37.73	
508.95	508.87	508.84	508.86	508.95	509.11	509.32	509.59	509.89	510.23	510.6	510.97	511.34	511.73	512.1	512.46	512.79	513.09	513.36	513.61	513.84	514.05	514.25	514.43	514.6	514.77	514.94	515.12	515.29	515.48	515.67	515.86	516.06	516.26	516.46	516.66	516.86	517.06	517.26	517.46	517.65	517.84	
835	673		131	19	0.4	13	156	437	092	1011	1125	835	673	262	131	19	0.4	13	156	437	092	1011	1125	835	673	797	131	19	0.4		156	437	092	1011	1125	872	673	797	131	19	0.4	
2021.17	2021.25	2021.33	2021.42	2021.5	2021.58	2021.67	2021.75	2021.83	2021.92	2022	2022.08	2022.17	2022.25	2022.33	2022.42	2022.5	2022.58	2022.67	2022.75	2022.83	2022.92	2023	2023.08	2023.17	2023.25	2023.33	2023.42	2023.5			2023.75	2023.83	203.92	2024	2024.08	2024.17	2024.25	2024.33	2024.42		2024.58	
Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	Мау-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24	Aug-24	

	476.93	477.1	477.26	477.42	477.59	477.75	477.91	478.07	478.23	478.4	478.56	478.72	478.88	479.05	479.21	3.37	479.53	479.68	479.84	479.99	480.15	480.31	480.46	480.62	7.77	480.92	481.07	481.22	481.38	481.52	481.66	481.8	481.95	482.09	482.23	482.37	482.51	482.65	482.78	482.92	483.05	483.18
	476	47	47,	47,	47,	477	477	478	478	47	478	478	478	475	475	479.37	475	475	475	475	480	480	480	480	480.77	480	481	481	481	481	481	48	481	482	482	482	482	485	482	482	483	483
OTHSTOCK_RI																																										
RETSALES_TOTHSTOCK_	19.77	61.77	77.92	78.04	78.17	78.29	78.41	78.53	78.65	78.76	78.87	78.98	60.62	79.19	79.29	79.38	79.48	95'62	79.64	79.72	79.81	79.89	79.97	80.05	80.14	80.22	80.31		80.48	80.57	80.65	80.75	80.84	80.94	81.05	81.17	81.28	81.4	81.53	81.65	81.78	81.9
ICP_RI	23334.28	23358.69	23383.14	23407.55	23432.29	23455.8	23479.32		23528.5	7	23579.24	23605.67	23632.03	23658.55		23711.33	23737.78		23787.43		23838.52	23864.39	23890.53	23917.37	23944		23997.44		24050.83	24076.24		24128.02	24154.87	24182.34	24210.47	24239.67	24268.87	24298.4	24328.12	24357.9	24388.12	24417.26
INCOME_RI	247.13	247.4	247.66	247.93	248.2	248.46	248.71	248.98	249.24	249.52	249.79	250.08	250.36	250.64	250.93	251.21	251.49	251.75	252.02	252.29	252.56	252.83	253.11	253.39	253.68	253.96	254.24	254.52	254.8	255.07	255.34	255.61	255.89	256.18	256.48	256.78	257.09	257.4	257.71	258.02	258.34	258.64
POP_RI	1059.08	1059.12	1059.15	1059.19	1059.22		1059.28	1059.3	1059.33	1059.35	1059.37	1059.39	1059.41	1059.42	1059.43			1059.45	1059.46		1059.46	1059.46	1059.46	1059.46	1059.45		1059.44	1059.44		1059.42	1059.41	1059.4	1059.39	1059.38	1059.37	1059.35	1059.34	1059.33	1059.31	1059.29	1059.28	
HH_RI	432.72	432.84	432.97	433.09	433.22	433.34	433.46	433.58	433.7	433.82	433.94	434.05	434.17	434.28	434.39	434.49	434.6	434.7	434.79	434.89	434.99	435.08	435.17	435.26	435.35	435.44	435.52	435.6	435.69	435.77	435.84	435.92	436	436.07	436.15	436.23	436.3	436.38	436.45	436.53	436.6	436.67
GDP_RI	61953.22	62068.57	62182.59	62295.46	62409.24	62516.81	62623.87	62734.23	62844.45	62954.74	63065.27	63177.99	63289.23	63400.81	63512.7	63624.9	63739.22	63848.28	63957.57	64070.81	64184.27	64297.94	64411.8	64527.77	64642.18	64756.98	64872.26	64988.09	65106.48	65219.83	65333.95	65452.8	65572.63	65693.5	65815.51	65940.66	66064.79	66189.78	66315.5	66441.83	66570.7	66695.76
	480.34	480.57	480.79	481.01	481.24	481.45	481.66	481.88	482.1	482.32	482.54	482.76	482.98	483.2	483.42	483.64	483.87	484.08	484.3	484.52	484.73	484.95	485.17	485.39	485.6	485.82	486.03	486.24	486.45	486.66	486.86	487.07	487.28	487.5	487.71	487.92	488.14	488.35	488.57	488.78	489	489.21
CONST_RI	20.91	20.92	20.92	20.93	20.93	20.93	20.93	20.93	20.93	20.93	20.93	20.92	20.92	20.91	20.91	20.9	20.89	20.88	20.87	20.86	20.85	20.85	20.84	20.83	20.82	20.81	20.8	20.79	20.79	20.78	20.77	20.77	20.76	20.75	20.75	20.74	20.73	20.73	20.72	20.72	20.71	20.71
MFG_RI C	37.69	37.64	37.6	37.55	37.5	37.46	37.41	37.37	37.32	37.28	37.23	37.18	37.14	37.09	37.05	37	36.96	36.91	36.87	36.83	36.78	36.74	36.7	36.66	36.61	36.57	36.53	36.49	36.45	36.41	36.37	36.34	36.3	36.26	36.22	36.18	36.14	36.11	36.07	36.03	35.99	35.96
EMPL_RI N	518.03	518.21	518.39	518.56	518.74	518.91	519.08	519.25	519.42	519.59	519.77	519.94	520.12	520.29	520.47	520.65	520.83	521	521.17	521.34	521.52	521.69	521.87	522.04	522.22	522.39	522.56	522.73	522.91	523.07	523.24	523.41	523.58	523.75	523.93	524.11	524.28	524.46	524.63	524.81	524.99	525.17
BDD_N E	13	156	437	092	1011	1125	835	673	262		19	0.4	13	156	437	092	1011	1	835	673	797	131	19	0.4	13		437	092	1011	1125	835	673	262	131	19	0.4	13	156	437	092	1011	1125
TIME	2024.67	2024.75	2024.83	2024.92	2025	2025.08	2025.17	2025.25	2025.33		2025.5	2025.58	2025.67	2025.75	2025.83	2025.92	2026		2026.17		2026.33	2026.42	2026.5	2026.58	2026.67		2026.83	2026.92	2027	2027.08	2027.17	2027.25	2027.33	2027.42	2027.5	2027.58	2027.67	2027.75	2027.83	2027.92	2028	2028.08
DATE	Sep-24	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	Oct-25	Nov-25	Dec-25	Jan-26	Feb-26	Mar-26	Apr-26	May-26	Jun-26	Jul-26	Aug-26	Sep-26	Oct-26	Nov-26	Dec-26	Jan-27	Feb-27	Mar-27	Apr-27	May-27	Jun-27	Jul-27	Aug-27	Sep-27	Oct-27	Nov-27	Dec-27	Jan-28	Feb-28

DATE	TIME	BDD_N	EMPL_RI	MFG_RI	CONST_RI	NONMFG_RI	GDP_RI	HH_RI	POP_RI	INCOME_RI	ICP_RI	RETSALES_	RETSALES_TOTHSTOCK_RI	
Mar-28	2028.17	7 872	525.34	35.92	20.7	7 489.42	66821.03	436.74	1059.24	258.94	24446.25	82.02	,	483.31
Apr-28	2028.25	5 673	525.52	38.38	20.7	489.64	66948.47	436.81	1059.22	259.25	24475.65	82.14	,	483.44
May-28	2028.33	3 262	525.7	32.85	20.69	9 489.85	67075.87	436.88	1059.2	259.56	24505.1	82.27	,	483.57
Jun-28	2028.42	2 131	525.88	35.81	20.69	490.07	67203.1	436.95	1059.18	259.87	24534.71	82.39		483.69
Jul-28	2028.5	5 19	526.06	22'58	20.69	490.29	67330.02	437.01	1059.16	260.18	24564.51	82.51	,	483.82
Aug-28	2028.58	3 0.4	526.24	35.74	20.68	3 490.5	67458.68	437.08	1059.14	260.5	24595.06	82.63	,	483.95
Sep-28	2028.67	7 13	526.42	2.38	20.68	3 490.72	67584.93	437.14	1059.12	260.81	24625.37	82.74	,	484.07
Oct-28	2028.75	156	526.6	99'58	20.68	490.94	67710.89	437.2	1059.1	261.13	24655.78	82.86	,	484.19
Nov-28	2028.83	437	526.78	32.62	20.67	7 491.15	67836.58	437.26	1059.08	261.44	24686.09	82.97	,	484.32
Dec-28	2028.92	760	526.96	35.59	20.67	7 491.37	67962.03	437.32	1059.05	261.76	24716.13	83.08	,	184.44
Jan-29	2029	1011	527.14	32.25	20.67	7 491.59	68089.33	437.38	1059.03	262.07	24746.39	83.2	,	484.56
Feb-29	2029.08	3 1125	527.31	35.52	20.67	7 491.8	68210.31	437.44	1059.01	262.37	24774.94	83.3	,	484.68
Mar-29	2029.17	7 835	527.49	35.48	20.67	7 492.01	68331.14	437.5	1058.98	262.66	24803.32	83.4	,	484.79
Apr-29	2029.25	5 673	527.67	35.44	20.67	492.22	68455.96	437.56	1058.96	262.97	24832.66	83.51	,	484.91
May-29	2029.33	3 262	527.85	35.41	20.67	492.44	68580.69	437.62	1058.93	263.27	24862.23	83.61	,	485.03
Jun-29	2029.42	131	528.03	35.37	20.67	492.66	68705.37	437.68	1058.91	263.59	24892.19	83.72	,	485.15
Jul-29	2029.5	5 19	528.21	35.33	20.67	7 492.88	68830.01	437.74	1058.88	263.9	24922.57	83.83	,	485.26
Aug-29	2029.58	3 0.4	528.39	35.3	20.67	7 493.1	68956.7	437.81	1058.86	264.23	24953.84	83.94	,	485.38
Sep-29	2029.67	7 13	528.57	35.26	20.67	7 493.31	69081.37	437.88	1058.83	264.55	24984.9	84.05		485.5
Oct-29	2029.75	5 156	528.75	32.22	20.67	7 493.53	69206.1	437.94	1058.8	264.87	25016.09	84.16	,	485.61
Nov-29	2029.83	3 437	528.93	35.19	20.67	7 493.75	69330.92	438.01	1058.77	265.19	25047.23	84.27	,	485.73
Dec-29	2029.92	2 760	529.11	35.15	20.67	7 493.97	69455.84	438.08	1058.75	265.51	25078.17	84.38	,	485.84
Jan-30	2030	1011	529.3	35.11	20.67	7 494.19	69582.95	438.14	1058.72	265.84	25109.31	84.49	,	485.95
Feb-30	2030.08	3 1125	529.47	35.08	20.67	7 494.39	69704.07	438.21	1058.69	266.14	25138.59	84.6		486.06

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GORI_RI	0.714	0.671	0.615	0.56	0.523	0.496	0.439	0.413	0.392	0.401	0.502	0.494	0.457	0.447	0.419	0.429	0.404	0.356	0.328	0.353	0.365	0.393	0.416	0.414	0.412	0.425	0.388	0.292	0.313	0.301	0.33	0.347	0.345	0.373	0.419	0.415	0.399	0.401
GORC_RI	0.935	0.824	0.691	0.604	0.57	0.556	0.507	0.547	0.623	0.676	0.702	0.727	0.694	0.59	0.506	0.484	0.471	0.455	0.454	0.505	0.519	0.624	0.626	0.629	0.536	0.487	0.428	0.382	0.428	0.436	0.47	0.504	0.595	0.67	0.644	0.648	0.585	0.501
GOKK_KI	1.05	0.84	0.685	0.587	0.565	0.563	0.533	0.614	0.675	0.716	0.758	0.741	0.674	0.607	0.531	0.485	0.457	0.471	0.47	0.536	0.605	0.602	0.64	0.658	0.669	0.509	0.423	0.414	0.432	0.46	0.497	0.598	0.647	0.67	0.731	0.736	0.667	0.534
OILPRCI_RI	20.79	21.83	22.4	23.61	24.57	25.84	27.98	27.73	27.5	27.29	27.1	26.93	26.76	26.59	27.49	26.87	27.76	28.66	29.12	28.97	28.82	28.65	28.47	28.28	28.08	27.89	27.82	27.66	27.86	28.82	28.12	27.96	27.77	27.54	27.28	27.03	26.8	26.59
OILPRCC_RI	20.71	21.63	22.35	23.62	24.87	26.08	28.24	27.99	27.75	27.54	27.35	27.18	27.01	26.84	27.74	27.12	28.01	28.92	29.39	29.24	29.09	28.92	28.74	28.54	28.34	28.14	28.07	27.92	28.12	29.08	28.38	28.22	28.03	27.8	27.54	27.28	27.05	26.84
OILPRCR_RI	23	24.58	25.35	26.54	27.86	29.14	31.56	31.28	31.02	30.78	30.57	30.37	30.18	29.99	31	30.31	31.31	32.32	32.84	32.68	32.51	32.32	32.11	31.9	31.68	31.45	31.37	31.2	31.43	32.5	31.72	31.54	31.33	31.07	30.77	30.49	30.23	29.99
NGPKCI_KI	14.83	14.66	13.78	13.23	12.85	12.82	12.27	11.46	10.78	10.93	13.61	13.29	12.22	11.87	11.53	11.52	11.22	10.2	9.55	10.22	10.53	11.26	11.84	11.7	11.58	11.84	10.79	8.08	8.73	99.8	9.29	9.7	9.57	10.28	11.42	11.21	10.7	10.67
NGPRCC_RI	19.36	17.82	15.45	14.26	14.18	14.49	14.31	15.3	17.28	18.61	19.19	19.76	18.74	15.83	14.03	13.13	13.19	13.17	13.33	14.76	15.11	18.05	18	17.95	15.19	13.71	12.01	10.67	12.03	12.67	13.33	14.21	16.69	18.63	17.72	17.68	15.81	13.46
NGPKCK_KI	24.14	20.64	17.38	15.58	15.75	16.42	16.81	19.19	20.93	22.05	23.17	22.5	20.35	18.2	16.45	14.7	14.32	15.23	15.44	17.5	19.66	19.46	20.54	20.99	21.18	16.02	13.28	12.91	13.58	14.94	15.75	18.86	20.25	20.82	22.49	22.43	20.17	16.01
DAIE	Sep-10	Oct-10	Nov-10	Dec-10	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13

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יין ייין	0.35	0.334	0.327	0.321	0.334	0.355	0.441	0.426	0.519	0.486	0.495	0.534	0.485	0.455	0.502	0.453	0.469	0.525	0.559	0.536	0.549	0.576	0.72	0.605	0.591	0.555	0.618	0.618	0.598	0.705	0.661	0.626	0.634	0.593	0.667	0.567	0.551	0.464
	0.452	0.431	0.424	0.415	0.421	0.475	0.57	0.742	0.832	0.827	0.812	0.808	0.656	0.544	0.613	0.553	0.575	0.664	0.739	0.872	0.941	0.963	1.247	0.953	0.796	0.733	0.738	0.733	0.728	98.0	0.846	0.961	1.087	1.005	1.179	0.907	0.71	0.59
	0.444	0.452	0.439	0.429	0.438	0.499	0.62	0.734	0.829	0.875	0.89	0.862	0.679	0.596	0.646	0.576	0.604	0.703	0.802	0.904	0.999	1.06	1.368	1.03	0.855	0.807	0.81	0.802	0.798	0.957	0.953	1.07	1.211	1.161	1.308	1	0.79	19:0
OILPRCI_RI	26.81	27.74	28.36	29.21	28.71	27.93	27.16	26.4	25.66	24.91	24.18	23.46	23.32	21.53	19.22	21.09	20.32	18.47	18.34	18.37	18.36	18.35	14.25	17.17	16.81	15.53	14.6	14.32	14.69	12.97	14.02	14.54	14.59	16.12	14.21	16.39	16.49	17.69
	27.06	28	28.62	29.48	28.97	28.19	27.41	26.65	25.89	25.14	24.4	23.68	23.54	21.73	19.4	21.29	20.5	18.64	18.51	18.54	18.53	18.52	14.38	17.33	16.96	15.68	14.74	14.45	14.82	13.09	14.15	14.67	14.72	16.27	14.34	16.54	16.64	17.86
OILPACA_NI	30.24	31.29	31.99	32.95	32.38	31.5	30.64	29.78	28.94	28.1	27.27	26.47	26.3	24.28	21.68	23.79	22.91	20.84	20.69	20.72	20.71	20.7	16.07	19.36	18.96	17.52	16.47	16.15	16.57	14.63	15.81	16.39	16.45	18.18	16.03	18.49	18.59	19.96
	9.38	9.27	9.29	9:38	9.59	9.92	11.98	11.25	13.31	12.1	11.97	12.53	11.31	62.6	9.62	9.55	9.53	9.7	10.25	9.84	10.07	10.57	10.25	10.39	9.93	8.62	9.03	8.85	8.79	9.15	9.27	9.1	9.24	9.55	9.47	9.3	60.6	8.21
ואפראכנ_ או	12.23	12.08	12.14	12.24	12.2	13.4	15.61	19.78	21.56	20.79	19.81	19.13	15.43	11.82	11.88	11.77	11.78	12.37	13.69	16.17	17.44	17.83	17.94	16.5	13.5	11.5	10.87	10.59	10.8	11.26	11.97	14.1	16.01	16.35	16.91	15	11.81	10.53
NGPKCK_KI	13.42	14.15	14.03	14.15	14.18	15.72	19	21.86	23.99	24.58	24.26	22.8	17.85	14.46	14	13.7	13.83	14.64	16.6	18.73	20.69	21.94	21.99	19.94	16.21	14.14	13.35	12.95	13.22	14	15.07	17.54	19.92	21.1	20.96	18.49	14.69	13.37
DAIE	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16

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GORI_RI	0.455	0.473	0.479	0.557	0.564	0.584	0.611	0.584	0.546	0.52	0.497	0.49	0.438	0.465	0.552	0.573	0.592	0.594	0.605	0.574	0.567	0.555	0.522	0.512	0.536	0.503	0.507	0.508	0.468	0.456	0.454	0.45	0.442	0.446	0.503	0.527	0.513	_
GORC_RI	0.56	0.587	0.589	0.676	0.786	0.899	1.066	1.041	0.974	0.922	0.726	0.639	0.548	0.588	0.677	0.719	0.741	98.0	0.95	0.984	0.971	0.863	0.689	0.648	0.671	0.629	0.634	0.658	0.658	0.648	0.639	0.639	0.618	0.574	0.564	0.585	0.563	0.55
	0.629	0.639	0.647	0.75	0.884	1.006	1.188	1.195	1.124	1.058	0.8	0.706	0.591	0.634	0.716	0.771	0.818	0.95	1.272	1.113	1.001	0.882	0.712	0.694	0.706	0.666	0.679	0.718	0.749	0.816	0.911	0.95	0.908	0.75	0.706	0.675	0.643	0.64
OILPRCI_RI	18.13	18.01	17.89	15.91	15.48	14.73	14.56	15.21	15.93	16.34	17.12	17.68	19.71	18.77	18.31	18.72	19.19	19.18	19.07	18.91	19.4	20.2	19.94	18.69	18.21	18.65	18.16	17.6	17.26	17.02	17.05	17.05	17.23	17.42	17.77	18.19	18.77	18.7
	18.29	18.17	18.06	16.06	15.63	14.87	14.69	15.35	16.08	16.5	17.28	17.84	19.89	18.95	18.47	18.9	19.36	19.36	19.25	19.09	19.58	20.39	20.12	18.87	18.37	18.82	18.33	17.76	17.42	17.17	17.21	17.21	17.39	17.58	17.94	18.36	18.95	18.87
OILPRCR_RI	20.44	20.31	20.18	17.94	17.46	16.62	16.42	17.16	17.97	18.43	19.31	19.94	22.23	21.17	20.65	21.12	21.64	21.63	21.51	21.33	21.88	22.79	22.49	21.09	20.53	21.03	20.48	19.85	19.47	19.19	19.23	19.24	19.44	19.65	20.04	20.52	21.17	21.09
	8.24	8.51	8.56	8.86	8.74	8.6	8.9	88.88	8.7	8.5	8.52	99.8	8.63	8.74	10.11	10.73	11.35	11.39	11.53	10.86	10.99	11.22	10.42	9.57	9.76	9:39	9.21	8.93	80.8	7.75	7.73	7.67	7.61	7.77	8.93	9:29	9.64	9.46
NGPRCC_RI	10.25	10.67	10.64	10.86	12.28	13.37	15.66	15.98	15.66	15.2	12.55	11.4	10.89	11.14	12.51	13.59	14.36	16.65	18.29	18.79	19	17.61	13.87	12.23	12.34	11.83	11.62	11.68	11.46	11.13	11	11	10.76	10.08	10.12	10.74	10.68	10.38
NGPRCR_RI	12.87	12.99	13.06	13.46	15.44	16.72	19.5	20.51	20.19	19.51	15.46	14.07	13.15	13.43	14.79	16.28	17.71	20.56	27.37	23.74	21.91	20.09	16.02	14.64	14.5	14.01	13.91	14.26	14.59	15.67	17.51	18.27	17.66	14.74	14.15	13.85	13.61	13.5
DATE	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20

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פסגו או	0.509	0.504	0.459	0.439	0.433	0.425	0.412	0.414	0.468	0.497	0.504	0.498	0.5	0.495	0.451	0.431	0.426	0.418	0.405	0.407	0.46	0.489	0.512	0.505	0.508	0.503	0.458	0.438	0.432	0.425	0.411	0.414	0.467	0.496	0.522	0.515	0.517	0.512
	0.552	0.569	0.566	0.556	0.558	0.568	0.559	0.529	0.531	0.564	0.582	0.568	0.57	0.588	0.584	0.574	0.577	0.587	0.578	0.546	0.548	0.582	0.609	0.594	0.597	0.615	0.611	0.601	0.603	0.614	0.604	0.572	0.573	0.609	0.631	0.616	0.619	0.638
	0.653	0.682	0.703	0.757	0.846	0.883	0.844	0.7	0.663	0.644	0.64	0.637	0.65	0.679	0.699	0.753	0.842	0.879	0.84	0.697	99:0	0.64	0.644	0.641	0.653	0.683	0.704	0.757	0.847	0.884	0.845	0.701	0.664	0.644	0.641	0.639	0.651	0.681
OILPRCI_RI	18.53	18.22	18.08	18.01	17.97	17.96	18.1	18.17	18.38	18.54	18.56	18.48	18.31	18	17.86	17.79	17.74	17.73	17.87	17.93	18.14	18.3	18.22	18.14	17.97	17.67	17.53	17.46	17.42	17.41	17.55	17.61	17.82	17.97	18.18	18.1	17.93	17.63
OILPRCC_RI	18.7	18.39	18.25	18.18	18.13	18.12	18.27	18.33	18.55	18.71	18.68	18.6	18.42	18.11	17.97	17.9	17.85	17.84	17.99	18.05	18.26	18.41	18.28	18.2	18.03	17.72	17.59	17.52	17.47	17.46	17.61	17.67	17.87	18.03	18.17	18.09	17.92	17.62
	20.9	20.55	20.4	20.32	20.27	20.25	20.42	20.49	20.73	20.91	21.62	21.53	21.32	20.96	20.8	20.72	20.66	20.65	20.82	20.89	21.13	21.31	21.94	21.85	21.64	21.28	21.11	21.03	20.98	20.96	21.14	21.21	21.46	21.64	22.59	22.49	22.28	21.91
	9.45	9.18	8.29	7.9	7.78	7.64	7.46	7.53	8.59	9.22	9.37	9.5	9.15	8.91	8.05	7.67	7.55	7.41	7.24	7.3	8.34	8.94	9.34	9.17	9.12	8.89	8.03	7.65	7.53	7.39	7.22	7.29	8.32	8.92	9.49	9.31	9.27	9.03
	10.33	10.47	10.33	10.11	10.12	10.29	10.22	9.7	9.84	10.55	10.87	10.56	10.51	10.65	10.5	10.28	10.29	10.46	10.39	98.6	10.01	10.72	11.13	10.81	10.76	10.9	10.75	10.53	10.54	10.72	10.64	10.1	10.25	10.98	11.47	11.14	11.08	11.23
_	13.64	14.03	14.34	15.37	17.14	17.88	17.23	14.35	13.75	13.46	13.83	13.71	13.85	14.24	14.55	15.6	17.39	18.14	17.48	14.56	13.95	13.65	14.12	14	14.14	14.54	14.85	15.93	17.76	18.52	17.86	14.87	14.25	13.94	14.49	14.36	14.51	14.91
_	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23

₹.	0.466	0.446	0.44	0.432	0.419	0.421	0.475	0.506	0.524	0.517	0.519	0.514	0.468	0.448	0.442	0.434	0.421	0.423	0.477	0.508	0.526	0.518	0.521	0.516	0.47	0.449	0.444	0.436	0.422	0.424	0.479	0.509	0.519	0.512	0.514	0.509	Pa Pa	0.443
GOR!	0.634	0.623	0.625	9:990	0.627	0.592	0.594	0.631	0.644	0.629	0.632	0.651	0.647	0.636	0.638	0.649	0.64	0.605	0.607	0.644	0.634	0.619	0.622	0.641	0.637	0.626	0.628	0.639	0.63	0.595	0.597	0.634	0.624	609.0	0.612	0.631	0.627	0.616
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GOKK_KI	0.701	0.755	0.844	0.881	0.842	0.699	0.662	0.642	0.63	0.627	0.639	0.668	0.688	0.741	0.828	0.865	0.827	0.686	0.65	69.0	0.621	0.618	0.631	0.659	0.679	0.731	0.817	0.853	0.815	0.677	0.641	0.622	0.615	0.613	0.625	0.653	0.673	0.724
OILPRCI_RI	17.49	17.42	17.38	17.36	17.51	17.56	17.77	17.92	18.48	18.4	18.23	17.92	17.78	17.71	17.66	17.65	17.8	17.86	18.07	18.22	18.96	18.88	18.7	18.38	18.24	18.17	18.13	18.11	18.26	18.33	18.54	18.7	19.33	19.24	19.06	18.74	18.6	18.52
	17.48	17.41	17.37	17.35	17.49	17.55	17.76	17.91	18.38	18.3	18.12	17.82	17.68	17.61	17.57	17.55	17.7	17.76	17.97	18.12	18.82	18.73	18.56	18.25	18.1	18.03	17.99	17.98	18.12	18.19	18.4	18.56	19.17	19.09	18.91	18.59	18.45	18.38
OILPRCK_RI	21.74	21.65	21.59	21.58	21.75	21.83	22.08	22.27	23.64	23.54	23.31	22.92	22.74	22.65	22.6	22.58	22.76	22.84	23.11	23.31	24.23	24.12	23.89	23.49	23.31	23.22	23.16	23.15	23.34	23.42	23.7	23.9	24.64	24.53	24.3	23.89	23.7	23.61
NGPRCI_RI	8.16	7.77	7.65	7.51	7.33	7.4	8.45	90.6	89.6	9.51	9.46	9.21	8.32	7.93	7.81	7.66	7.48	7.55	8.62	9.25	9.97	9.78	9.74	9.48	8.57	8.16	8.04	7.89	7.7	7.78	88.88	9.52	10.03	9.85	8.6	9.55	8.62	8.21
NGPRCC_RI	11.08	10.85	10.86	11.04	10.96	10.4	10.55	11.31	11.84	11.5	11.45	11.6	11.44	11.2	11.21	11.4	11.32	10.74	10.9	11.68	11.93	11.59	11.53	11.69	11.53	11.29	11.3	11.49	11.41	10.83	10.99	11.77	11.97	11.63	11.57	11.73	11.57	11.33
NGPRCR_RI	15.24	16.34	18.22	19	18.31	15.25	14.61	14.3	14.89	14.76	14.9	15.32	15.65	16.79	18.71	19.52	18.82	15.67	15.01	14.69	15.05	14.92	15.07	15.49	15.83	16.97	18.92	19.74	19.03	15.84	15.18	14.86	15.16	15.03	15.18	15.6	15.94	17.1
DAIE	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	Oct-25	Nov-25	Dec-25	Jan-26	Feb-26	Mar-26	Apr-26	May-26	Jun-26

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פטאו_או	0.438	0.43	0.417	0.419	0.473	0.503	0.504	0.497	0.499	0.495	0.45	0.431	0.425	0.418	0.404	0.407	0.459	0.488	0.502	0.495	0.497	0.492	0.448	0.428	0.423	0.416	0.403	0.405	0.457	0.486	0.495	0.488	0.49	0.486	0.442	0.423	0.418	0.41
ש שורי	0.619	0.629	0.62	0.586	0.588	0.625	0.607	0.592	0.595	0.613	609'0	0.599	0.601	0.611	0.602	0.57	0.571	0.607	0.603	0.589	0.591	0.609	0.606	0.595	0.598	0.608	0.599	0.566	0.568	0.603	0.591	0.577	0.58	0.598	0.594	0.584	0.586	0.596
GORK_RI	0.809	0.845	0.808	0.67	0.635	0.616	0.602	0.599	0.611	0.639	0.658	0.708	0.791	0.826	0.79	0.655	0.621	0.602	9.0	0.598	0.609	0.637	0.656	0.706	0.789	0.824	0.788	0.654	0.619	0.601	0.592	0.589	0.601	0.628	0.647	969.0	0.778	0.813
OILPRCI_RI	18.48	18.46	18.61	18.68	18.9	19.06	19.93	19.84	19.65	19.32	19.17	19.09	19.04	19.03	19.18	19.25	19.47	19.64	20.09	20	19.81	19.47	19.32	19.24	19.19	19.18	19.33	19.4	19.62	19.79	20.45	20.36	20.17	19.83	19.67	19.59	19.54	19.52
OILPRCC_RI	18.33	18.32	18.47	18.53	18.75	18.91	19.75	19.66	19.47	19.15	19	18.92	18.87	18.86	19.01	19.08	19.3	19.46	19.9	19.81	19.62	19.29	19.14	19.06	19.01	18.99	19.15	19.21	19.44	19.6	20.25	20.16	19.96	19.63	19.47	19.4	19.34	19.33
	23.55	23.54	23.73	23.81	24.09	24.3	25.31	25.2	24.96	24.54	24.35	24.25	24.19	24.17	24.37	24.45	24.73	24.95	25.51	25.39	25.15	24.72	24.53	24.43	24.37	24.35	24.54	24.63	24.91	25.13	25.91	25.79	25.55	25.12	24.92	24.82	24.75	24.73
	8.09	7.94	7.75	7.83	8.93	9:28	10.04	98.6	9.81	9.55	8.63	8.22	8.1	7.95	7.76	7.83	8.94	9.59	10.07	68.6	9.84	9:28	8.66	8.25	8.12	7.97	7.78	7.85	8.96	9.65	10.12	9.94	68.6	6.63	8.7	8.29	8.16	8.01
NGPRCC_RI	11.34	11.53	11.45	10.86	11.02	11.81	11.98	11.64	11.58	11.74	11.57	11.33	11.34	11.53	11.45	10.86	11.03	11.81	12	11.66	11.6	11.75	11.59	11.35	11.36	11.55	11.47	10.88	11.04	11.83	11.97	11.63	11.57	11.73	11.57	11.32	11.34	11.52
NGPRCK_RI	19.06	19.88	19.16	15.96	15.29	14.96	15.23	15.1	15.25	15.67	16.01	17.17	19.14	19.97	19.24	16.02	15.35	15.02	15.31	15.17	15.32	15.75	16.09	17.26	19.23	20.06	19.34	16.1	15.42	15.1	15.33	15.2	15.35	15.78	16.12	17.29	19.27	20.1
DAIE	Jul-26	Aug-26	Sep-26	Oct-26	Nov-26	Dec-26	Jan-27	Feb-27	Mar-27	Apr-27	May-27	Jun-27	Jul-27	Aug-27	Sep-27	Oct-27	Nov-27	Dec-27	Jan-28	Feb-28	Mar-28	Apr-28	May-28	Jun-28	Jul-28	Aug-28	Sep-28	Oct-28	Nov-28	Dec-28	Jan-29	Feb-29	Mar-29	Apr-29	May-29	Jun-29	Jul-29	Aug-29

DATE	NGPRCR_RI	NGPRCC_RI	NGPRCI_RI	OILPRCR_RI	OILPRCC_RI	OILPRCI_RI	GORR_RI	GORC_RI	GORI_RI
Sep-29	9 19.37	11.44	7.82	24.93	19.49	19.68	7777	0.587	0.397
Oct-29	9 16.13	10.86	7.89	25.02	19.55	19.75	0.645	0.555	0.4
Nov-29	9 15.45	11.02	9.01	25.31	19.78	19.98	0.61	0.557	0.451
Dec-29	9 15.12	11.8	99'6	25.53	19.95	20.15	0.592	0.592	0.48
Jan-30	0 15.35	11.95	10.15	26.08	20.38	20.6	0.589	985'0	0.493
Feb-30	0 15.22	11.61	96'6	25.96	20.29	20.51	0.586	0.572	0.486

PUC 1-8-Revised

Request:

Referring to Bates 151, Attachment 1 Table 3 provides Dth delivery forecasts for 2020 through 2023.

- a. Please explain and itemize the decrease in Dth deliveries from 42.1 million Dth in 2020 to 38.6 million Dth in 2021.
- b. Please explain the subsequent increase in Dth deliveries in 2022 to 39.98 million Dth and to 41.2 million Dth in 2023.
- c. Please provide an alternative schedule that recalculates the proposed gas energy efficiency factor shown on page 1 of Attachment 6, using the same forecast that was used in Docket 5040 which established the Distribution Adjustment Factor which went into effect on November 1, 2020 (i.e., 39,648,231 dths).

Original Response:

a. The projected volume of 42.1 million Dth in 2020 is based on the Company's 2019 Q2 forecasts whereas, the 38.6 million Dth projected for 2021 is from the Company's 2020 Q2 forecasts. The 2020 Q2 projections consider an additional year of historical data (the actual billing data until the end of February 2020 was taken into consideration) compared to 2019 Q2 forecasts, which considers actual data up to February 2019 only.

The primary reason for a decline in the Company's 2020 Q2 forecast relative to its 2019 Q2 forecast is the impact of COVID-19 pandemic on the Rhode Island economy as projected by Moody's analytics. In its 2019 Q2 forecast, the Company forecasted a total of 42,171,352 Dth for the calendar year 2020. The impact of the COVID-19 pandemic on the economy of Rhode Island can be seen in the corresponding time period in the 2020 Q2 forecast with a forecasted load of 36,829,633 Dth, a 12.7 percent reduction.¹

Similarly, there was an 8.9 percent decline in the projected volume for 2021 from 2019 Q2 forecast versus 2020 Q2 forecast (from 42,382,476 Dth based on 2019 Q2 projections to 3,860,800 Dth based on 2020 Q2 projections).

For both 2019 Q2 and 2020 Q2 forecasts, the Company developed econometric models to separately forecast the meter count and the use-per-customer for Residential Heating, Residential Non-heating, Commercial, and Industrial customer groups. The meter count

¹ Assuming the same DG customer volume (of 1,470,931 Dth) for 2020 as used in 2019 Q2 forecasts.

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and use-per-customer are multiplied to obtain a forecast of retail volumes for each customer class. Next, the incremental savings from the impact of the energy efficiency programs (that are not embedded in the historical data used to derive the statistical models because such savings are exogenous to the modeling effort) are subtracted from the projected volumes. These volumes are then broken down at the rate code level based on the historical share (most recent three years) of the rate codes within their respective customer group.

The meter counts and the use-per-customer in the region are considerably driven by the underlying macro-economic scenario. The Company uses the following macro-economic variables obtained from Moody's forecasts in developing its meter count and use-per-customer forecasts:

- a. Personal Income
- b. Non-manufacturing Employment
- c. Manufacturing Employment
- d. Total Employment
- e. Retail Sales
- f. Gas-to-Oil Price Ratio for the Industrial Sector in the state of Rhode Island.

Attachments PUC 1-8-1 through PUC 1-8-4, provide the full set of monthly economic and price variables considered in the development of the Company's 2020 Q2 retail gas forecast. The corresponding data used in 2019 Q2 projections are in Attachments PUC 1-8-3 and 1-8-4.

b. In the Company's 2021 Annual Energy Efficiency Program Plan, on Bates 151, Attachment 1, Table 3, the Company presented its deliveries forecasts from CY 2020 to CY 2023 (reproduced in Table 1). The growth in total volumes from 2021 to 2022 is 1,373,518 Dth (39,981,521 Dth minus 38,608,003 Dth), and from 2022 to 2023 is 1,219,848 Dth (41,201,369 Dth minus 39,981,521 Dth).

Table 1

	2020	2021	2022	2023
Projected Volume (in Dth)	42,171,352	38,608,003	39,981,521	41,201,369

<u>PUC 1-8, page 3</u>

As mentioned in the response to 1-8a, the economic outlook for Rhode Island was downgraded by Moody's due to the impact of COVID-19 was responsible for a reduction of volumes in 2021 in the 2020 Q2 forecast. The growth in volumes in the following years is driven by the improved macro-economic forecasts from Moody's, under the assumption of economic recovery and restoration of the economy, post-COVID.

c. The gas forecast used in the DAC filing is the same as used in the current filing. The only difference is that the volumes in the DAC filing are reported by planning year (spanning November through October) and volumes in the EE filing are reported by calendar year.

Revised Response:

c. Attachment 1-8-5 contains numbers that are based on the same forecast as in Docket 5040 and the same November 1, 2020 – October 31, 2021 timeframe that was used in Docket 5040.

The gas forecast used in the DAC filing is the same as used in the current filing. The only difference is that the volumes in the DAC filing are reported by planning year (spanning November through October) and volumes in the EE filing are reported by calendar year.

Table G-1 **National Grid** Gas DSM Funding Sources in 2021 by Sector **\$(000)**

(1) Projected Budget (from G-2):	P Income Eligible Residential \$10,494.10	rojections by Sector Non-Income Eligible Residential \$17,517.85	Commercial & Industrial \$10,604.66	Total \$38,616.62
Sources of Other Funding:				
(2) Projected Year-End 2019 Fund Balance and Interest:	\$0.00	\$1,919.14	\$3,898.35	\$5,817.49
(3) Low Income Weatherization in Base Rates:	\$0.00			\$0.00
(4) Total Other Funding:	\$0.00	\$1,919.14	\$3,898.35	\$5,817.49
(5) Customer Funding Required:	\$10,494.10	\$15,598.72	\$6,706.31	\$32,799.10
(6) Forecasted Firm Dth Volume(7) Forecasted Non Firm Dth Volume(8) Less: Exempt DG Customers	1,593,921	18,575,835	19,478,475 228,650 (1,485,040)	39,648,231 228,650 (1,485,040)
(9) Forecasted Dth Volume:	1,593,921	18,575,835	18,222,085	38,391,841
Average Energy Efficiency Program Charge per Dth (10) excluding Uncollectible Recovery:				\$0.854
(11) Proposed Energy Efficiency Program Charge per Dth excluding Uncollectible Recovery	\$0.997	\$0.997	\$0.696	
(12) Currently Effective Uncollectible Rate	<u>1.91%</u>	<u>1.91%</u>	<u>1.91%</u>	
(13) Proposed Energy Efficiency Program Charge per Dth, including Uncollectible Recovery:	\$1.016	\$1.016	\$0.709	
(14) Currently Effective Energy Efficiency Program Charge per Dth	\$1.011	\$1.011	\$0.704	
(15) Adjustment to Reflect Fully Reconciling Funding Mechanism	\$0.005	\$0.005	\$0.005	

Notes

⁽¹⁾ Projected Budget from G-2 includes OER and EERMC costs allocated to each sector based on forecasted volume.

⁽²⁾ Fund Balance projections include projected revenue and spend through year-end with Residential and C&I sector subsidies applied to Income Eligible as detailed in the 2021 EE Plan Table G-1. The Company proposes to refile this table with updated Fund Balance projections on December 1, 2020 as proposed in Section 12.1 of the Plan's Main Text.

(6) Forecast Firm Dth matches the forecast provided in Docket 5040 and is for the November 1, 2020 - October 31, 2021 time period.

⁽¹¹⁾ As agreed to by the settling parties, the proposed EE program charges allow for the use of collections from one sector to fund energy efficiency services in other sectors that would otherwise not be supported with the proposed collection rates. The C&I charge includes collection of \$5.61 million of which \$5.32 million will be allocated to the low income sector and \$0.29 million to the residential sector.

⁽¹²⁾ Uncollectible rate approved in Docket No. 4770.

PUC 1-9

Request:

Please update E-10 and G-10 with rows showing:

- a. the yearly percentage increases in each budget;
- b. the unemployment rate for RI in January of each year;
- c. the GDP for Rhode Island for each year;
- d. the percentage change in GDP for Rhode Island for each year;
- e. budget amount adjusted to reflect revenue from the upcoming billing period (i.e., exclude over collections and under collections, RGGI funds, capacity market funds, etc.);
- f. the total implementation costs including participant costs.
- g. The spending associated with lighting;
- h. The savings associated with lighting.

Response:

See Attachment PUC 1-9-1 and Attachment PUC 1-9-2 for updated Tables E-10 and G-10, respectively, with additional rows in response to subparts a-f.

The Company is still working to provide the information in response to subparts g-h and will supplement this response with that information by November 18, 2020.

Table E-10: Rhode Island Electric Energy Efficiency 2003 - 2021 - Expanded The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5076 Attachment PUC 1-9-1

Electric	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013(4)	2014	2015	2016	2017	2018	2019	2020(5)	2021(6)
Energy Efficiency Budget (\$Million) ⁽¹⁾	\$23.1	\$22.6	\$23.1	\$22.4	\$22.5	\$21.0	\$32.4	\$37.6	\$59.2	\$61.4	\$77.5	\$87.0	\$86.6	\$87.5	\$94.6	\$94.6	\$107.5	\$111.1	\$122.3
Spending Budget (\$Million) ²⁾	\$16.3	\$15.8	\$17.6	\$16.5	\$16.4	\$14.7	\$23.5	\$28.8	\$45.3	\$55.3	\$64.8	\$80.6	\$77.3	\$77.6	\$88.5	\$88.7	\$98.1	\$101.1	\$110.1
Actual Expenditures (\$Million) ⁽³⁾	\$22.8	\$19.5	\$23.4	\$23.7	\$21.9	\$19.2	\$31.7	\$29.7	\$40.0	\$50.7	\$72.9	\$85.3	\$87.4	\$78.4	\$94.8	\$93.0	\$100.7		
Incentive Percentage (10)	4.4%	4.4%	4.4%	4.4%	4.4%	4.4%	4.4%	4.4%	4.4%	4.4%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	N/A
Target Incentive ⁽¹¹⁾	\$712,557	\$781,959	\$774,689	\$712,557 \$781,959 \$774,689 \$726,627 \$723,000	-,	\$647,689	\$1,035,943	\$1,267,043	\$1,992,513	\$2,434,131	\$3,240,747	\$4,032,000	\$3,867,400	\$3,878,087	\$4,425,528	\$4,436,022	\$4,905,009	\$5,054,448	\$5,500,000
Earned Incentive	\$712,557	\$604,876	\$795,648	712,557 \$604,876 \$795,648 \$760,623 \$716,075		\$675,282	\$1,085,888	\$1,333,996	\$1,929,273	\$2,469,411	\$2,997,681	\$4,223,321	\$4,533,360	\$4,128,034	\$4,829,847	\$4,940,402	\$3,290,237		
Annual Summer Demand kW Savings Goal Achieved (%)				106%	106%	113%	142%	78%	71%	83%	114%	78%	112%	101%	103%	116%	%86		
Annual MWh Energy Savings Goal Achieved (%)				1111%	102%	1111%	115%	107%	94%	93%	%66	105%	115%	107%	115%	110%	%86		
Energy Efficiency Program Charge (\$\psi NWh)^0	\$0.00200	\$0.00200	\$0.00200	\$0.00200 \$0.00200 \$0.00200 \$0.00200 \$0.00200		\$0.00200	\$0.00320	\$0.00320	\$0.00526	\$0.00592	\$0.00876	\$0.00911	\$0.00953	\$0.01077	\$0.01124	\$0.00972	\$0.01121	\$0.01323	\$0.01323
Annual Cost to 500 kWh/month Residential Customer w/o ta®	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00	\$19.20	\$19.20	\$31.56	\$35.52	\$52.56	\$54.66	\$57.18	\$64.62	\$67.44	\$58.32	\$67.26	\$79.38	\$79.38
Annual Cost to 500 kWh/month Residential Customer w/ taX)	\$12.50	\$12.50	\$12.50	\$12.50	\$12.50	\$12.50	\$20.00	\$20.00	\$32.88	\$37.00	\$54.75	\$56.94	\$59.56	\$67.31	\$70.25	\$60.75	\$70.06	\$82.69	\$82.69
Yearly Percentage Change in Energy Efficiency Budget		-2%	2%	-3%	%0	-7%	54%	16%	21%	4%	26%	12%	%0	1%	8%	%0	14%	3%	10%
RI Unemployment Raté ^[2]	5.3%	5.3%	2.0%	5.1%	4.7%	6.2%	10.1%	11.1%	11.0%	11.2%	9.5%	8.8%	%9'9	5.4%	4.5%	4.3%	3.7%	3.4% N	N/A
RI GDP (\$Million) (13)	\$ 49,348	\$ 51,554	\$ 52,286	\$ 49,348 \$ 51,554 \$ 52,286 \$ 53,492 \$ 51	994	\$ 50,412 \$	\$ 50,217	\$ 51,365	\$ 51,263	\$ 51,607	\$ 51,679	\$ 52,006	\$ 52,958	\$ 53,030 \$	\$ 52,728	\$ 53,136 \$	3, 53,668 \$	1	
Yearly Percentage Change in RI GDP	1	4.5%	1.4%	2.3%	-2.8%	-3.0%	-0.4%	2.3%	-0.2%	0.7%	0.1%	9.0	1.8%	0.1%	-0.6%	0.8%	1.0%		,
Adjusted Spending Budget (\$Million) ⁽¹⁴⁾		\$15.8	\$15.8	\$16.9	\$16.1	\$15.8	\$31.9	\$24.2	\$45.9	\$45.9	\$67.7	\$70.0	\$71.9	\$81.0	\$83.2	\$57.6	880.9	\$91.9	\$86.3
Actual Implementation Costs (\$Million) ⁽¹⁵⁾	\$16.0	\$14.8	\$16.3	\$17.4	\$16.4	\$14.9	\$39.5	\$32.6	\$42.8	\$59.4	\$79.9	\$112.1	\$126.8	\$104.2	\$126.1	\$118.6	\$138.8		
Spending Associated with Lighting																			
Savings Associated with Lighting																			

(1) Energy Efficiency Budget includes total expenditures and commitments. Includes all demand side management program-related expenses, including rebates, administration and general expenses, evaluation, commitments for future years and Company incentive.

(2) Piriot 10 2017, Spedning Budget Eligible for Shareholder Treentive includes: Implementation, Administration, General, and Evaluation Expenses, excludes EERMC and OER Costs, Commitments, Copays, and Outside Finance Costs were also included. Beginning in 2018 Pilot expenses (3) Actual Expenditures is actual spend driving calendary ear. Includes expenditures and commitments. Includes all demand side management program-related expenses, including rebates, administration and general expenses, evaluation, commitments for future years and Company incentive. were also excluded. Beginning in 2019 ConnectedSolutions expenses and assessments were also excluded.

(4) In the Company's gas and electric rate cases in docket 4323, the PUC approved the uncollectibles gross-up in the electric EE Program Charge effective February 1, 2013, and a new rate applicable to the gross-up of the gas EE Program Charge, effective February 1, 2013.

(5) 2020 values are planned.

(6) 2021 values are proposed.
(7) Beginning in 2012, the EE Program Charge includes the System Reliability Factor. It does not include the \$0.0003 renewables per RI General Laws \$39.2-1.2 and Order #19608, which appears on customer bills.

(8) Reflects the annual cost excluding Gross Earnings Tax. (9) Reflects the annual cost including Gross Earnings Tax.

(10) Incentive percentage not applicable for 2021 due to new performance incentive mechanism developed for the 2021 Annual Plan. See Section 12 of the Main Text of the 2021 Annual Plan for additional details.

(11) Target incentive is calculated in the same way as in 2020 in order to provide a more accurate estimate of the energy efficiency surcharge. (12) https://www.bls.gov/web/laus/laumstrk.htm, accessed on 11/11/2020. Rate shown is the rate in January of that year.

(13) https://app.bea.gov/riabble/Tabble.cfm?ReqID=70&Sep=1, accessed on 11/11/2020. Real GDP is in millions of chained 2012 dollars. Calculations are performed on unrounded data. Chained (2012) dollar series are calculated as the product of the chain-type quantity indexes uses weights of more than one period, the corresponding chained-dollar estimates are usually not additive. The difference between the United States and sum-of-states reflects federal military and civilian activity located overseas, as well as the differences in source data use to to estimate GDP by industry and the expenditures measure of real GDP.

(14) Spending budget adjusted to reflect revenue from the upcoming billing period (15) Implementation costs including participant costs. Participant cost not included in reporting prior to 2009. Source file for 2003 Annual Spending Budget Unavailable.

Fable G-10: Rhode Island Gas Energy Efficiency 2003 - 2021 - Expanded The Narragansett Electric Company RIPUC Docket No. 5076 Attachment PUC 1-9-1

Gas	5007 ⁽⁴⁾	2008	2009	2010	2011(5)	2012	$2013^{(6)}$	2014	2015	2016	2017	2018	2019	$2020^{(7)}$	$2021^{(8)}$
Energy Efficiency Budget (\$Million) ⁽¹⁾	-	\$7.3	\$7.6	84.8	\$7.3	\$13.7	\$19.5	\$23.5	\$24.5	\$27.7	\$29.7	\$28.1	\$31.6	\$34.3 \$	38.6
Yearly Percentage Increase in Energy Efficiency Budget		,	4%	-37%	52%	%88	42%	21%	4%	13%	7%	-5%	12%	%6	12%
Spending Budget (\$Million) ⁽²⁾		\$6.6	\$6.1	\$4.5	\$6.2	\$12.9	\$17.9	\$21.8	\$22.4	\$25.0	\$27.8	\$26.2	\$29.2	\$31.6 \$	36.0
Actual Expenditures (\$Million) ⁽³⁾		\$7.4	\$6.3	\$5.5	\$4.9	\$13.3	\$19.6	\$21.5	\$21.5	\$24.6	\$29.1	\$28.8	\$29.5		
Incentive Percentage ⁽¹²⁾		4.4%	4.4%	4.4%	4.4%	4.4%	2.0%	5.0%	2.0%	5.0%	5.0%	5.0%	5.0%	5.0%	NA
Target Incentive	,	\$288,734	\$266,980	\$199,743	\$274,460	\$570,382	\$898,285	51,089,700	\$1,119,800	\$1,251,654	\$1,387,550	\$1,309,076	\$1,460,570	\$1,578,601	\$1,700,000
Earned Incentive	,	\$288,734	\$262,121	\$231,310	\$239,863	\$586,036	\$968,229	\$1,362,108	\$1,387,079	\$1,496,869	\$1,633,531	\$1,541,255	\$1,580,119		
Annual MMBtu Energy Savings Goal Achieved (%)		109%	139%	127%	117%	%66	109%	124%	1111%	106%	113%	120%	104%		
System Benefits Charge (\$/therm) - all non-exempt customers	\$0.0071	\$0.0107	\$0.0150	\$0.0150	\$0.0411	\$0.0384	\$0.0417	,	,		,	,	,	,	,
Residential System Benefits Chare (\$/therm)			,		,		,	\$0.0600	\$0.0781	\$0.0748	\$0.0888	80.08	\$0.0715	\$0.1011	\$0.1011
C&I System Benefits Charge (\$/therm)		,	,		,			\$0.0492	\$0.0637	\$0.0487	\$0.0726	\$0.0671	\$0.0420	\$0.0704	\$0.0704
Annual Cost to 846 Therm/year Residential Customer w/o tax ⁽⁹⁾	\$6.04	\$9.05	\$12.69	\$12.69	\$18.28	\$32.49	\$35.28	\$50.76	\$66.07	\$63.28	\$75.12	\$73.52	\$60.49	\$85.53	\$85.53
Annual Cost to 846 Therm/year Residential Customer w/tax(10)	\$6.23	\$9.33	\$13.08	\$13.08	\$18.85	\$33.49	\$36.37	\$52.33	\$68.11	\$65.24	\$77.44	\$75.79	\$62.36	\$88.18	\$88.18
RI Unemployment Rate ⁽¹³⁾	4.7%	6.2%	10.1%	11.1%	11.0%	11.2%	9.5%	8.8%	%9.9	5.4%	4.5%	4.3%	3.7%	3.4% N/A	
RI GDP (\$Million) ⁽¹⁴⁾	\$ 51,994	\$ 51,994 \$ 50,412 \$	50,217 \$	51,365 \$	51,263 \$	51,607 \$	51,679	52,006 s	52,958	\$ 53,030	\$ 52,728	\$ 53,136 \$	53,668	·	,
Yearly Percentage Change in RI GDP	-2.8%	-3.0%	-0.4%	2.3%	-0.2%	0.7%	0.1%	0.6%	1.8%	0.1%	-0.6%	0.8%	1.0%	,	1
Adjusted Spending Budget (\$Million) ⁽¹⁵⁾		\$6.6	\$3.2	86.7	87.9	\$13.1	\$14.0	\$21.3	\$26.9	\$23.8	\$31.0	\$28.6	\$22.3	\$35.3 \$	32.8
Actual Implementation Costs (\$Million) ⁽¹⁶⁾		\$6.7	89.0	\$11.0	87.9	\$20.7	\$24.3	\$29.3	\$27.6	\$29.0	\$36.4	\$34.8	\$41.9		

(1) Energy Efficiency Budget includes total expenditures and commitments. Includes all demand side management program-related expenses, including rebates, administration and general expenses, evaluation, commitments for future years and Company incentive. (2) Prior to 2017, Spending Budget Eligible for Shareholder Incentive includes: Implementation, Administration, General, and Evaluation Expenses; excludes EERMC and OGR Costs, Commitments, Copays, and Outside Finance Costs. Beginning in 2017, Outside

(3) Actual Expenditures is actual spend during calendar year. Includes expenditures and commitments for future years and demand side management program-related expenses, including rebates, administration and general expenses, evaluation, commitments for future years and Finance Costs were also included. Beginning in 2018 Pilot expenses were also excluded. Beginning in 2019 Connected Solutions expenses and assessment were also excluded.

(4) Gas programs began during July 2007 and were not reported on separately that year since programs were still in development. The 2007 gas programs are included in 2008 reporting. Systems Benefit Charge shown for 2007 is the weighted average of \$0.063 per

(5) On July 25, 2011 the Commission ordered that National Grid could increase the gas System Benefits Charge from \$0.15 to \$0.411 per decatherm for the period of August 1, 2011 through December 31, 2011. Annual cost represents 7 months usage (632 therms) at decatherm from January 1, 2007 - June 30, 2007 and \$0.107 per decatherm from July 1, 2007 through December 31, 2008.

\$0.015 per therm and 5 months usage (214 therms) at \$0.0411 per therm.

(6) In the Company's gas and electric rate cases in docket 4323, the PUC approved the uncollectibles gross-up in the electric EE Program Charge effective February 1, 2013, and a new rate applicable to the gross-up of the gas EE Program Charge, effective February 1

2013.

(7) 2020 values are planned.

(8) 2021 values are proposed.

(9) Reflects the annual cost excluding Gross Earnings Tax.

(11) The Gas EE Program Charge was uniform for all customers until 2014, at which time the Company proposed and the PUC approved individual factors for the residential and C&1 sectors. (10) Reflects the annual cost including Gross Earnings Tax.

(12) Incentive percentage not applicable for 2021 due to new performance incentive mechanism developed for the 2021 Annual Plan. See Section 12 of the Main Text of the 2021 Annual Plan for additional details. (13) https://www.bls.gov/web/laus/laumstrk.htm, accessed on 11/11/2020. Rate shown is the rate in January of that year.

(14) https://apps.bea.gov/itable/f7able.cfm?ReqID=70&step=1, accessed on 11/11/2020. Real GDP is in millions of chained 2012 dollars. Calculations are performed on unrounded data. Chained (2012) dollar series are calculated as the product of the chain-type quantity index and the 2012 the corresponding series, divided by 100. Because the formula for the chain-type quantity indexes uses weights of more than one period, the corresponding chained-dollar estimates are usually not additive. The difference between the United States and sum-of-states reflects federal military and civilian activity located overseas, as well as the differences in source data used to estimate GDP by industry and the expenditures measure of real GDP.

(15) Spending budget adjusted to reflect revenue from the upcoming billing period.
(16) Implementation costs including participant costs. Participant cost not included in reporting prior to 2009.

PUC 1-9 (Supplemental)

Request:

Please update E-10 and G-10 with rows showing:

- a. the yearly percentage increases in each budget;
- b. the unemployment rate for RI in January of each year;
- c. the GDP for Rhode Island for each year;
- d. the percentage change in GDP for Rhode Island for each year;
- e. budget amount adjusted to reflect revenue from the upcoming billing period (i.e., exclude over collections and under collections, RGGI funds, capacity market funds, etc.);
- f. the total implementation costs including participant costs.
- g. The spending associated with lighting;
- h. The savings associated with lighting.

Original Response:

See Attachment PUC 1-9-1 and Attachment PUC 1-9-2 for updated Tables E-10 and G-10, respectively, with additional rows in response to subparts a-f.

The Company is still working to provide the information in response to subparts g-h and will supplement this response with that information by November 18, 2020.

Supplemental Response:

See Attachment PUC 1-9-1 (Supplemental) that adds information for parts g and h of the request.

The Narragansett Electric Company

Obb. National Grid

Alb. National Grid

Attechment PUC 1-9-1 - Supplemental

Table E-10: Rhode Island Electric Energy Efficiency 2003 - 2021 - Expanded

Lighting Spending and Swings

Energy Efficiency Budget (\$Million) ⁽¹⁾ Spending Budget (\$Million) ⁽²⁾		2004	2002	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	/107	2018	2019	2020	1707
Spending Budget (\$Million) ⁽²⁾	\$23.1	\$22.6	\$23.1	\$22.4	\$22.5	\$21.0	\$32.4	837.6	\$59.2	\$61.4	\$77.5	0.788	9.98\$	\$87.5	\$94.6	\$94.6	\$107.5	\$111.1	\$122.3
	\$16.3	\$15.8	\$17.6	\$16.5	\$16.4	\$14.7	\$23.5	\$28.8	\$45.3	\$55.3	\$64.8	9.08\$	\$77.3	877.6	\$88.5	\$88.7	\$98.1	\$101.1	\$110.1
Actual Expenditures (\$Million) ⁽³⁾	\$22.8	\$19.5	\$23.4	\$23.7	\$21.9	\$19.2	\$31.7	\$29.7	\$40.0	\$50.7	\$72.9	\$85.3	\$87.4	\$78.4	\$94.8	\$93.0	\$100.7		
Incentive Percentage (10)	4.4%	4.4%	4.4%	4.4%	4.4%	4.4%	4.4%	4.4%	4.4%	4.4%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	V/Z
Target Incentive(11)	\$712,557	\$781,959	8774,689	\$726,627	\$723,000	\$647,689	\$1,035,943	\$1,267,043	\$1,992,513	\$2,434,131	\$3,240,747	\$4,032,000	\$3,867,400	\$3,878,087	\$4,425,528	\$4,436,022	\$4,905,009	\$5,054,448	\$5,500,000
Earned Incentive Annual Summer Demand kW Savings Goal Achieved (%)	\$712,557	\$604,876	8795,648	\$760,623	5716,075	\$675,282	\$1,085,888	\$1,333,996	\$1,929,273	\$2,469,411 83%	\$2,997,681	54,223,321	54,533,360	54,128,034	54,829,847	54,940,402	53,290,237		
Annual MWh Energy Savings Goal Achieved (%)				111%	102%	111%	115%	107%	94%	93%	%66	105%	115%	107%	115%	110%	%86		
Energy Efficiency Program Charge (\$/kWh)77	\$0.00200	\$0.00200	\$0.00200	\$0.00200	\$0.00200	\$0.00200	\$0.00320	\$0.00320	\$0.00526	\$0.00592	\$0.00876	\$0.00911	\$0.00953	\$0.01077	\$0.01124	\$0.00972	\$0.01121	\$0.01323	\$0.01323
Annual Cost to 500 kWh/month Residential Customer w/o tax(8)	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00	\$19.20	\$19.20	\$31.56	\$35.52	\$52.56	\$54.66	\$57.18	\$64.62	\$67.44	\$58.32	\$67.26	\$79.38	\$79.38
Annual Cost to 500 kWh/month Residential Customer w/ tax (9)	\$12.50	\$12.50	\$12.50	\$12.50	\$12.50	\$12.50	\$20.00	\$20.00	\$32.88	\$37.00	\$54.75	\$56.94	\$59.56	\$67.31	\$70.25	\$60.75	\$70.06	\$82.69	\$82.69
Yearly Percentage Change in Energy Efficiency Budget	•	-2%	2%	-3%	%0	-7%	54%	16%	27%	4%	26%	12%	%0	1%	8%	%0	14%	3%	10%
RI Unemployment Rate ⁽¹²⁾	5.3%	5.3%	5.0%	5.1%	4.7%	6.2%	10.1%	11.1%	11.0%	11.2%	9.5%	8.8%	99.9	5.4%	4.5%	4.3%	3.7%	3.4% N/A	Y.
RI GDP (\$Million) (13)	\$49,348	\$51,554	\$52,286	\$53,492	\$51,994	\$50,412	\$50,217	\$51,365	\$51,263	\$51,607	\$51,679	\$52,006	\$52,958	\$53,030	\$52,728	\$53,136	\$53,668	80	S
Yearly Percentage Change in RI GDP	•	4.5%	1.4%	2.3%	-2.8%	-3.0%	-0.4%	2.3%	-0.2%	0.7%	0.1%	0.6%	1.8%	0.1%	-0.6%	0.8%	1.0%	,	,
Adjusted Spending Budget (\$Million) (14)		\$15.8	\$15.8	\$16.9	\$16.1	\$15.8	\$31.9	\$24.2	\$45.9	\$45.9	\$67.7	\$70.0	871.9	\$81.0	\$83.2	\$57.6	880.9	\$91.9	\$86.3
Actual Implementation Costs (\$Million) ⁽¹⁵⁾	\$16.0	\$14.8	\$16.3	\$17.4	\$16.4	\$14.9	\$39.5	\$32.6	\$42.8	\$59.4	6.62\$	\$112.1	\$126.8	\$104.2	\$126.1	\$118.6	\$138.8		
C&I Lighting Savings (Net Annual kWh)	14,471,981	12,854,156	18,650,857	26,277,192	19,523,875	16,212,258	34,655,833	31,227,359	35,040,767	60,654,961	58,076,847	61,109,084	64,173,157	39,379,442	47,055,358	58,928,154	43,903,086	33,884,083	51,958,235
C&I Lighting Spending (\$Million) ⁽¹⁶⁾	\$2.4	\$2.2	\$2.5	\$3.2	\$2.3	\$1.6	\$5.2	\$2.6	\$2.7	\$5.1	\$2.4	\$4.0	\$8.2	\$5.2	\$8.5	\$8.1	\$10.5	\$7.1	\$20.8
Small Business Services Lighting Savings (Net Annual kWh)	4,625,894	3,956,495	6,854,926	8,454,478	7,751,097	6,864,894	8,550,657	11,587,022	15,536,965	17,872,029	19,113,761	15,555,294	14,690,560	11,781,376	12,165,895	9,855,718	12,055,777	6,864,227	9,067,810
Small Business Services Lighting Spending (\$Million) ⁽¹⁷⁾	\$2.1	\$2.0	\$3.0	\$3.7	\$3.7	\$3.2	\$3.2	\$4.9	87.0	\$8.4	89.0	88.6	\$10.0	86.6	57.7	\$5.7	87.6	\$4.5	\$7.3
Res Lighting Savings (Net Annual kWh)	14,901,317	12,925,382	23,155,300	16,076,132	17,885,039	12,583,507	19,871,307	14,292,368	17,460,436	22,533,027	31,333,521	30,667,769	41,244,664	58,080,352	60,992,505	54,211,090	51,665,012	23,972,291	17,054,961
Res Lighting Spending (\$Million) (18)	\$1.2	\$1.0	\$1.2	80.8	80.8	90.08	\$1.0	\$1.5	\$2.0	\$3.7	\$5.1	\$5.4	86.9	57.7	89.0	\$10.7	\$13.6	\$6.1	\$5.3
Direct Install Lighting Savings (Net Annual kWh)					2,729,275	1,688,020	2,421,434	1,984,013	2,113,774	6,930,617	15,457,275	23,040,603	31,478,341	21,363,138	13,531,756	10,956,775	8,751,222	3,877,423	3,487,441
Direct Install Lighting Spending (\$Million) ⁽¹⁹⁾					\$2.2	\$1.4	\$2.7	\$1.6	\$2.1	86.0	\$12.9	\$15.2	\$17.5	\$16.1	819.9	\$18.4	\$17.0	\$10.1	\$6.1

(1) Finety Efficiency Budget includes total expenditures and commitments. Includes all dennand side management program-related expenses, evaluation, commitments for future years and Company incentive.

(2) Print of 107, expending Budget includes and commitments. Includes all dennand side management program-related expenses, including rebases, evaluation, commitments in 2017, columnents, commitments of a page of the commitments. An expending against an expension of the commitments of the commitments of the commitments in the commitments of the commitments of the commitments of the commitments. The commitments of the commitments. Includes expenditures and expension of the commitments. Includes expenditures and expension of the commitments. Includes expenditures are caused included in commitments. Includes all dennand side management program-related expenses, including rebases, administration and general expenses, evaluation, commitments in the cases in declarate the commitments. Includes expenditures are caused in the cases in declarate the cases of the ca

PUC 1-10

Request:

Please provide the most recent unemployment rate for Rhode Island as of the date of the response to these data requests and the most recent quarterly percentage change in GDP for Rhode Island.

Response:

The most recent seasonally adjusted unemployment rate for Rhode Island as of September 2020 is 10.5% according to the U.S. Department of Labor Bureau of Labor Statistics.¹

The most recent quarterly GDP data from the U.S. Department of Commerce Bureau of Economic Analysis indicates that Rhode Island GDP declined at an annual rate of 32.4% from Q1 to Q2 2020.²

¹ Source: https://www.bls.gov/web/laus/laumstrk.htm, accessed on 11/3/2020.

² Source: https://www.bea.gov/sites/default/files/2020-10/qgdpstate1020_0.pdf, Table 1. Percent Change in Real Gross Domestic Product (GDP) by State and Region, 2019:Q1-2020:Q2, accessed on 11/3/2020.

PUC 1-11

Request:

Table E-1 (line 3) shows an overcollection of \$19.961 million in electric efficiency. Table G-1 (line 2) shows an overcollection of \$5.817 million in gas efficiency.

- a. Please provide the actual year-to-date expenditures on the 2020 electric and gas efficiency programs.
- b. Please provide the projected expenditures on the 2020 electric and gas efficiency programs.
- c. Please show the differences between the projected electric and gas program expenditures and the approved 2020 budgets.
- d. Please confirm the primary cause of these overcollections is underspending relative to the approved budget.
- e. Please provide a full explanation why the underspending in 2020 was so large for electric and gas.
- f. Please explain which elements to the response in part b persist in 2021.
- g. What evidence does the Company have to support the proposal that it will be able to implement an additional \$20 million not spent in 2020, as well as an additional \$10 million on top of that figure on electric efficiency?

Response:

- a. Please see PUC Attachment 1-11-1 for actual electric and 1-11-2 for actual gas expenditures through October 2020.
- b. Please see PUC Attachment 1-11-1 for actual electric and 1-11-2 for actual gas year to date expenditures as of October 31, 2020. The current electric expenditure estimate is \$2,391,415 less than the estimate that was the basis of the Company's initial plan filing (which was based on estimates of full year expenditures as of August 31, 2020). The current gas full year expenditure estimate is \$664,478 less than the estimate that was the basis of the Company's initial plan filing (which was also based on the Company's most current estimate of full year expenditures as of August 31, 2020).
- c. Please see PUC Attachment 1-11-1 for electric and 1-11-2 for gas.
- d. Yes. The primary cause of the overcollection is due to underspending relative to the approved budget.

PUC 1-11, page 2

e. The primary cause of the underspending relative to the approved budget is due to the COVID-19 pandemic and the resulting impacts on customer demand for energy efficiency services and the Company and vendor ability to fulfill this demand. On March 17, 2020, in light of the COVID-19 pandemic, the Company suspended all on premise energy efficiency service delivery by contracted vendors. This suspension continued for several months, until such point that, through the development and adoption of enhanced health and safety protocols, such services could again be delivered safely.

Additionally, during the suspension, many vendor employees were furloughed or laid off, and even in the context of the full restoration of on-premise services, many vendors continue to operate at reduced delivery capacity as they have not yet fully restored pre-COVID staffing levels.

f. With respect to the restoration of on-premise delivery of services, the enhanced health and safety protocols referenced in part e of this response are now well established and allowing vendors to continue to safely deliver on-premise energy efficiency services to customers, even in light of rising COVID case rates within Rhode Island.

In addition to the adoption and implementation of enhanced health and safety protocols, the Company has also worked with vendors to create new and innovative ways to treat serve customers during this period, including the creation of virtual and remote delivery capabilities for services that previously could only be delivered on-site.

While the Company anticipates that there will still be lingering impacts of the COVID-19 pandemic to address in 2021, the Company also anticipates that vendor delivery capacity will continue to grow through the first half of 2021.

g. The Company acknowledges that significant near-term uncertainty remains with respect to energy efficiency market conditions in 2021.

The savings goals and supporting budgets proposed in the 2021 Annual Plan were built from the market potential study that ultimately informed the targets that were proposed by the EERMC approved by the PUC. Based on the market potential study, the Company has identified areas of opportunity for savings that would require more funding to achieve. Many of these areas are comprised of measures that, while they deliver genuine energy savings, cost more money to do so. As such, the Company has requested,

PUC 1-11, page 2

and anticipates needing and being able to utilize in support of achieving savings goals, additional funding in 2021 in order to support Company implementation of these strategies and resulting customer adoption of associated measures.

With respect to requested spend relative to anticipated full year 2020 expenditures, the Company is also seeing evidence of a restoration of customer energy efficiency demand through year-end 2020 – this is supported by the current expectation that 49% of total net annual electric energy savings (and 51% of currently anticipated total net annual gas energy savings) for the year will be delivered during the October-December period.

The Company would also point out that, to the extent that market conditions do not allow the Company to fully implement the requested budget, should it be approved, that through the fully reconciling mechanism any unspent funds will be returned to customers, with interest, in 2021 through a commensurate reduction in the SBC surcharge that would otherwise be required to support the 2021 programs. This would support Company achievement of illustrative 2022 savings goals, and associated benefits, at lower than currently estimated surcharge increases.

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5076 Attachment PUC 1-11-1

Approved 2020 Budget Compared to YTD and Projected Expenditures (\$000) - Electric

	Approved Implementation Budget 2020	Actual Year-To-Date Expenditures (through October 2020)	Projected 2020 Expenditures	Difference (Annual Filed Budget - Projected Spend)	% Projected Spend/Annual Filed Budget
Non-Income Eligible Residential					
Residential New Construction	\$973.5	\$724.2	\$904.5	\$68.9	93%
ENERGY STAR® HVAC	\$2,525.1	\$2,137.2	\$2,525.1	\$0.0	100%
Energy <i>Wise</i>	\$15,692.2	\$10,050.6	\$12,493.7	\$3,198.4	80%
EnergyWise Multifamily	\$2,804.3	\$553.0	\$1,738.7	\$1,065.6	62%
ENERGY STAR® Lighting	\$15,375.8	\$6,064.5	\$8,918.0	\$6,457.8	58%
Residential Consumer Products	\$2,199.2	\$1,413.4	\$1,913.3	\$285.9	87%
Home Energy Reports	\$2,728.1	\$1,828.6	\$2,244.5	\$483.6	82%
Residential ConnectedSolutions	\$461.6	\$211.9	\$461.6	\$0.0	100%
Energy Efficiency Education Programs	\$40.0	\$18.8	\$40.0	\$0.0	100%
Residential Pilots	\$287.8	\$57.9	\$287.8	\$0.0	100%
Community Based Initiatives - Residential	\$203.9	\$7.4	\$203.9	\$0.0	100%
Comprehensive Marketing - Residential	\$382.3	\$40.0	\$382.3	\$0.0	100%
Subtotal - Non-Income Eligible Residential	\$43,673.8	\$23,107.4	\$32,113.5	\$11,560.3	74%
Income Eligible Residential					
Single Family - Income Eligible Services	\$12,846.1	\$4,373.1	\$8,350.0	\$4,496.1	65%
Income Eligible Multifamily	\$3,549.0	\$300.1	\$3,536.5	\$12.5	100%
Subtotal - Income Eligible Residential	\$16,395.1	\$4,673.2	\$11,886.4	\$4,508.7	72%
Commercial & Industrial					
Large Commercial New Construction	\$5,335.7	\$3,130.1	\$5,645.0	-\$309.2	106%
Large Commercial Retrofit	\$23,801.3	\$14,592.7	\$24,044.5	-\$243.1	101%
Small Business Direct Install	\$7,568.6	\$4,158.6	\$7,289.3	\$279.3	96%
Commercial ConnectedSolutions	\$2,078.5	\$118.8	\$2,078.5	\$0.0	100%
Community Based Initiatives - C&I	\$66.1	\$0.6	\$66.1	\$0.0	100%
Commercial Pilots	\$106.3	\$2.2	\$106.3	\$0.0	100%
Finance Costs	\$5,216.7	\$0.0	\$5,216.7	\$0.0	100%
Subtotal Commercial & Industrial	\$44,173.2	\$22,003.1	\$44,446.3	-\$273.1	101%
Regulatory					
EERMC	\$893.7	\$695.0	\$893.7	\$0.0	100%
OER	\$893.7	\$670.3	\$893.7	\$0.0	100%
Subtotal Regulatory	\$1,787.4	\$1,365.2	\$1,787.4	\$0.0	100%
TOTAL IMPLEMENTATION BUDGET	\$106,029.5	\$51,149.0	\$90,233.6	\$15,795.9	85%

Notes:

⁽¹⁾ Program Implementation Budget excludes Commitments, Company Incentive

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5076 Attachment PUC 1-11-2 Page 1 of 1

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5076 Attachment PUC 1-11-2 Approved 2020 Budget Compared to YTD and Projected Expenditures (\$000) - Gas

	Approved Implementation Budget 2020	Actual Year-To-Date Expenditures (through October 2020)	Projected 2020 Expenditures	Difference (Annual Filed Budget - Projected Spend)	% Projected Spend/Annual Filed Budget
Non-Income Eligible Residential					
Residential New Construction	\$620.5	\$317.5	\$421.8	\$198.7	68%
ENERGY STAR® HVAC	\$2,693.1	\$1,716.6	\$2,693.0	\$0.1	100%
EnergyWise	\$8,117.6	\$6,212.4	\$6,486.1	\$1,631.5	80%
EnergyWise Multifamily	\$1,512.1	\$366.3	\$1,239.9	\$272.2	82%
Home Energy Reports	\$471.5	\$305.5	\$376.0	\$95.5	80%
Residential Pilots	\$0.0	\$0.0	\$0.0	\$0.0	0%
Community Based Initiatives - Residential	\$68.9	\$1.2	\$68.9	\$0.0	100%
Comprehensive Marketing - Residential	\$79.9	\$9.1	\$79.9	\$0.0	100%
Subtotal - Non-Income Eligible Residential	\$13,563.6	\$8,928.6	\$11,365.6	\$2,197.9	84%
Income Eligible Residential					
Single Family - Income Eligible Services	\$5,952.3	\$1,576.6	\$3,869.0	\$2,083.3	65%
Income Eligible Multifamily	\$3,009.5	\$239.6	\$1,595.0	\$1,414.5	53%
Subtotal - Income Eligible Residential	\$8,961.8	\$1,816.2	\$5,464.0	\$3,497.8	61%
Commercial & Industrial					
Large Commercial New Construction	\$2,652.6	\$1.869.7	\$2,113.7	\$538.9	80%
Large Commercial Retrofit	\$4,889.1	\$1,679.1	\$2,983.8	\$1,905.3	62%
Small Business Direct Install	\$125.0	\$99.1	\$125.0	\$0.0	100%
Commercial & Industrial Multifamily	\$967.9	\$252.2	\$532.4	\$435.6	55%
Community Based Initiatives - C&I	\$22.0	\$0.0	\$22.0	\$0.0	100%
Commercial Pilots	\$366.0	\$0.0	\$0.0	\$0.0	0%
Finance Costs	\$500.0	\$0.0	\$500.0	\$0.0	100%
Subtotal Commercial & Industrial	\$9,522.7	\$3,900.1	\$6,276.9	\$3,245.7	66%
Regulatory					
EERMC	\$361.2	\$280.9	\$361.2	\$0.0	100%
OER	\$361.2	\$270.9	\$361.2	\$0.0	100%
Subtotal Regulatory	\$722.4	·	\$722.4	\$0.0	100%
TOTAL IMPLEMENTATION BUDGET	\$32,770.4	\$15,196.6	\$23,829.0	\$8,941.4	73%

Notes:

⁽¹⁾ Program Implementation Budget excludes Commitments, Company Incentive

PUC 1-11 (Revised)¹

Request:

Table E-1 (line 3) shows an overcollection of \$19.961 million in electric efficiency. Table G-1 (line 2) shows an overcollection of \$5.817 million in gas efficiency.

- a. Please provide the actual year-to-date expenditures on the 2020 electric and gas efficiency programs.
- b. Please provide the projected expenditures on the 2020 electric and gas efficiency programs.
- c. Please show the differences between the projected electric and gas program expenditures and the approved 2020 budgets.
- d. Please confirm the primary cause of these overcollections is underspending relative to the approved budget.
- e. Please provide a full explanation why the underspending in 2020 was so large for electric and gas.
- f. Please explain which elements to the response in part b persist in 2021.
- g. What evidence does the Company have to support the proposal that it will be able to implement an additional \$20 million not spent in 2020, as well as an additional \$10 million on top of that figure on electric efficiency?

Original Response:

- a. Please see PUC Attachment 1-11-1 for actual electric and 1-11-2 for actual gas expenditures through October 2020.
- b. Please see PUC Attachment 1-11-1 for actual electric and 1-11-2 for actual gas year to date expenditures as of October 31, 2020. The current electric expenditure estimate is \$2,391,415 less than the estimate that was the basis of the Company's initial plan filing (which was based on estimates of full year expenditures as of August 31, 2020). The current gas full year expenditure estimate is \$664,478 less than the estimate that was the basis of the Company's initial plan filing (which was also based on the Company's most current estimate of full year expenditures as of August 31, 2020).
- c. Please see PUC Attachment 1-11-1 for electric and 1-11-2 for gas.
- d. Yes. The primary cause of the overcollection is due to underspending relative to the approved budget.

¹ The Company's revised response begins on page 3.

PUC 1-11 (Revised), page 2

e. The primary cause of the underspending relative to the approved budget is due to the COVID-19 pandemic and the resulting impacts on customer demand for energy efficiency services and the Company and vendor ability to fulfill this demand. On March 17, 2020, in light of the COVID-19 pandemic, the Company suspended all on premise energy efficiency service delivery by contracted vendors. This suspension continued for several months, until such point that, through the development and adoption of enhanced health and safety protocols, such services could again be delivered safely.

Additionally, during the suspension, many vendor employees were furloughed or laid off, and even in the context of the full restoration of on-premise services, many vendors continue to operate at reduced delivery capacity as they have not yet fully restored pre-COVID staffing levels.

f. With respect to the restoration of on-premise delivery of services, the enhanced health and safety protocols referenced in part e of this response are now well established and allowing vendors to continue to safely deliver on-premise energy efficiency services to customers, even in light of rising COVID case rates within Rhode Island.

In addition to the adoption and implementation of enhanced health and safety protocols, the Company has also worked with vendors to create new and innovative ways to treat serve customers during this period, including the creation of virtual and remote delivery capabilities for services that previously could only be delivered on-site.

While the Company anticipates that there will still be lingering impacts of the COVID-19 pandemic to address in 2021, the Company also anticipates that vendor delivery capacity will continue to grow through the first half of 2021.

g. The Company acknowledges that significant near-term uncertainty remains with respect to energy efficiency market conditions in 2021.

The savings goals and supporting budgets proposed in the 2021 Annual Plan were built from the market potential study that ultimately informed the targets that were proposed by the EERMC approved by the PUC. Based on the market potential study, the Company has identified areas of opportunity for savings that would require more funding to achieve. Many of these areas are comprised of measures that, while they deliver genuine energy savings, cost more money to do so. As such, the Company has requested,

PUC 1-11 (Revised), page 3

and anticipates needing and being able to utilize in support of achieving savings goals, additional funding in 2021 in order to support Company implementation of these strategies and resulting customer adoption of associated measures.

With respect to requested spend relative to anticipated full year 2020 expenditures, the Company is also seeing evidence of a restoration of customer energy efficiency demand through year-end 2020 – this is supported by the current expectation that 49% of total net annual electric energy savings (and 51% of currently anticipated total net annual gas energy savings) for the year will be delivered during the October-December period.

The Company would also point out that, to the extent that market conditions do not allow the Company to fully implement the requested budget, should it be approved, that through the fully reconciling mechanism any unspent funds will be returned to customers, with interest, in 2021 through a commensurate reduction in the SBC surcharge that would otherwise be required to support the 2021 programs. This would support Company achievement of illustrative 2022 savings goals, and associated benefits, at lower than currently estimated surcharge increases.

Revised Response:

This response represents a revised version of the Company's original response to PUC 1-11 and Attachment PUC 1-11-1 and Attachment PUC 1-11-2 that were submitted on November 10, 2020. Please note that the below response supersedes the Company's original response to PUC 1-11.

The revisions include adjustments to anticipated 2020 program expenditures that reflect the incorporation of updated assumptions from an updated version of the internal implementation team's end of October monthly update. (The values reported in the Company's initial response to PUC 1-11 and associated attachments were based on an end of October update that was mistakenly believed to be final but was subsequently finalized to include adjustments to C&I electric savings projections.) In addition, some program year to date expenditures and forecast of expenditures were inadvertently not included in the values listed in the Company's original response to 1-11 and associated attachments. The cells updated in the revised attachments have been highlighted in green.

a. Please see PUC Attachment 1-11-1 (Revised) for actual electric and 1-11-2 (Revised) for actual gas expenditures through October 2020.

PUC 1-11 (Revised), page 4

- b. Please see PUC Attachment 1-11-1 (Revised) for actual electric and 1-11-2 (Revised) for actual gas year to date expenditures as of October 31, 2020. The current electric expenditure estimate is \$\$1,830,940 less than the estimate that was the basis of the Company's initial plan filing (which was based on estimates of full year expenditures as of August 31, 2020). The current gas full year expenditure estimate is \$198,463 less than the estimate that was the basis of the Company's initial plan filing (which was also based on the Company's most current estimate of full year expenditures as of August 31, 2020).
- c. Please see PUC Attachment 1-11-1 (Revised) for electric and 1-11-2 (Revised) for gas.
- d. Yes. The primary cause of the overcollection is due to underspending relative to the approved budget.
- e. The primary cause of the underspending relative to the approved budget is due to the COVID-19 pandemic and the resulting impacts on customer demand for energy efficiency services and the Company and vendor ability to fulfill this demand. On March 17, 2020, in light of the COVID-19 pandemic, the Company suspended all on premise energy efficiency service delivery by contracted vendors. This suspension continued for several months, until such point that, through the development and adoption of enhanced health and safety protocols, such services could again be delivered safely.
 - Additionally, during the suspension, many vendor employees were furloughed or laid off, and even in the context of the full restoration of on-premise services, many vendors continue to operate at reduced delivery capacity as they have not yet fully restored pre-COVID staffing levels.
- f. With respect to the restoration of on-premise delivery of services, the enhanced health and safety protocols referenced in part e of this response are now well established and allowing vendors to continue to safely deliver on-premise energy efficiency services to customers, even in light of rising COVID case rates within Rhode Island.
 - In addition to the adoption and implementation of enhanced health and safety protocols, the Company has also worked with vendors to create new and innovative ways to treat serve customers during this period, including the creation of virtual and remote delivery capabilities for services that previously could only be delivered on-site.

PUC 1-11 (Revised), page 5

While the Company anticipates that there will still be lingering impacts of the COVID-19 pandemic to address in 2021, the Company also anticipates that vendor delivery capacity will continue to grow through the first half of 2021.

g. The Company acknowledges that significant near-term uncertainty remains with respect to energy efficiency market conditions in 2021.

The savings goals and supporting budgets proposed in the 2021 Annual Plan were built from the market potential study that ultimately informed the targets that were proposed by the EERMC approved by the PUC. Based on the market potential study, the Company has identified areas of opportunity for savings that would require more funding to achieve. Many of these areas are comprised of measures that, while they deliver genuine energy savings, cost more money to do so. As such, the Company has requested, and anticipates needing and being able to utilize in support of achieving savings goals, additional funding in 2021 in order to support Company implementation of these strategies and resulting customer adoption of associated measures.

With respect to requested spend relative to anticipated full year 2020 expenditures, the Company is also seeing evidence of a restoration of customer energy efficiency demand through year-end 2020 – this is supported by the current expectation that 42% of total net annual electric energy savings (and 51% of currently anticipated total net annual gas energy savings) for the year will be delivered during the October-December period.

The Company would also point out that, to the extent that market conditions do not allow the Company to fully implement the requested budget, should it be approved, that through the fully reconciling mechanism any unspent funds will be returned to customers, with interest, in 2021 through a commensurate reduction in the SBC surcharge that would otherwise be required to support the 2021 programs. This would support Company achievement of illustrative 2022 savings goals, and associated benefits, at lower than currently estimated surcharge increases.

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5076 Attachment PUC 1-11-1 (Revised)

Approved 2020 Budget Compared to YTD and Projected Expenditures (\$000) - Electric

	Approved Implementation Budget 2020	Actual Year-To-Date Expenditures (through October 2020)	Projected 2020 Expenditures	Difference (Annual Filed Budget - Projected Spend)	% Projected Spend/Annual Filed Budget
Non-Income Eligible Residential					
Residential New Construction	\$973.5	\$724.2	\$904.5	\$68.9	93%
ENERGY STAR® HVAC	\$2,525.1	\$2,137.2	\$2,525.1	\$0.0	100%
Energy <i>Wise</i>	\$15,692.2	\$10,050.6	\$12,568.7	\$3,123.4	80%
EnergyWise Multifamily	\$2,804.3	\$553.0	\$1,738.7	\$1,065.6	62%
ENERGY STAR® Lighting	\$15,375.8	\$6,064.5	\$8,918.0	\$6,457.8	58%
Residential Consumer Products	\$2,199.2	\$1,413.4	\$1,913.3	\$285.9	87%
Home Energy Reports	\$2,728.1	\$1,828.6	\$2,244.5	\$483.6	82%
Residential ConnectedSolutions	\$461.6	\$211.9	\$461.6	\$0.0	100%
Energy Efficiency Education Programs	\$40.0	\$18.8	\$40.0	\$0.0	100%
Residential Pilots	\$287.8	\$57.9	\$287.8	\$0.0	100%
Community Based Initiatives - Residential	\$203.9	\$7.4	\$203.9	\$0.0	100%
Comprehensive Marketing - Residential	\$382.3	\$40.0	\$382.3	\$0.0	100%
Subtotal - Non-Income Eligible Residential	\$43,673.8	\$23,107.4	\$32,188.5	\$11,485.3	74%
Income Eligible Residential					
Single Family - Income Eligible Services	\$12,846.1	\$4,373.1	\$8,350.0	\$4,496.1	65%
Income Eligible Multifamily	\$3,549.0	\$300.1	\$3,536.5	\$12.5	100%
Subtotal - Income Eligible Residential	\$16,395.1	\$4,673.2	\$11,886.4	\$4,508.7	72%
Commercial & Industrial					
Large Commercial New Construction	\$5,335.7	\$3,130.1	\$6,030.5	-\$694.7	113%
Large Commercial Retrofit	\$23,801.3	\$14,592.7	\$24,144.5	-\$343.1	101%
Small Business Direct Install	\$7,568.6	\$4,158.6	\$7,289.3	\$279.3	96%
Commercial ConnectedSolutions	\$2,078.5	\$118.8	\$2,078.5	\$0.0	100%
Community Based Initiatives - C&I	\$66.1	\$0.6	\$66.1	\$0.0	100%
Commercial Pilots	\$106.3	\$53.0	\$106.3	\$0.0	100%
Finance Costs	\$5,216.7	\$4,347.2	\$5,216.7	\$0.0	100%
Subtotal Commercial & Industrial	\$44,173.2	\$26,401.1	\$44,931.7	-\$758.6	102%
Regulatory					
EERMC	\$893.7	\$695.0	\$893.7	\$0.0	100%
OER	\$893.7	\$670.3	\$893.7	\$0.0	100%
Subtotal Regulatory	\$1,787.4	\$1,365.2	\$1,787.4	\$0.0	100%
TOTAL IMPLEMENTATION BUDGET	\$106,029.5	\$55,547.0	\$90,794.0	\$15,235.4	86%

⁽¹⁾ Program Implementation Budget excludes Commitments, Company Incentive

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5076 Attachment PUC 1-11-2 (Revised) Page 1 of 1

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5076

Attachment PUC 1-11-2 (Revised)
Approved 2020 Budget Compared to YTD and Projected Expenditures (\$000) - Gas

	Approved Implementation Budget 2020	Actual Year-To-Date Expenditures (through October 2020)	Projected 2020 Expenditures	Difference (Annual Filed Budget - Projected Spend)	% Projected Spend/Annual Filed Budget
Non-Income Eligible Residential					
Residential New Construction	\$620.5	\$317.5	\$421.8	\$198.7	68%
ENERGY STAR® HVAC	\$2,693.1	\$1,716.6	\$2,693.0	\$0.1	100%
EnergyWise	\$8,117.6	\$6,212.4	\$6,486.1	\$1,631.5	80%
EnergyWise Multifamily	\$1,512.1	\$366.3	\$1,239.9	\$272.2	82%
Home Energy Reports	\$471.5	\$305.5	\$376.0	\$95.5	80%
Residential Pilots	\$0.0	\$0.0	\$0.0	\$0.0	0%
Community Based Initiatives - Residential	\$68.9	\$1.2	\$68.9	\$0.0	100%
Comprehensive Marketing - Residential	\$79.9	\$9.1	\$79.9	\$0.0	100%
Subtotal - Non-Income Eligible Residential	\$13,563.6	\$8,928.6	\$11,365.6	\$2,197.9	84%
Income Eligible Residential					
Single Family - Income Eligible Services	\$5,952.3	\$1,576.6	\$3,869.0	\$2,083.3	65%
Income Eligible Multifamily	\$3,009.5	\$239.6	\$1,595.0	\$1,414.5	53%
Subtotal - Income Eligible Residential	\$8,961.8	\$1,816.2	\$5,464.0	\$3,497.8	61%
Commercial & Industrial					
Large Commercial New Construction	\$2,652.6	\$1,869.7	\$2,113.7	\$538.9	80%
Large Commercial Retrofit	\$4,889.1	\$1,680.5	\$3,083.8	\$1,805.3	63%
Small Business Direct Install	\$125.0	\$99.1	\$125.0	\$0.0	100%
Commercial & Industrial Multifamily	\$967.9	\$252.2	\$532.4	\$435.6	55%
Community Based Initiatives - C&I	\$22.0	\$0.0	\$22.0	\$0.0	100%
Commercial Pilots	\$366.0	\$1.6	\$366.0	\$0.0	100%
Finance Costs	\$500.0	\$0.0	\$500.0	\$0.0	100%
Subtotal Commercial & Industrial	\$9,522.7	\$3,903.1	\$6,743.0	\$2,779.7	71%
Regulatory					
EERMC	\$361.2	\$280.9	\$361.2	\$0.0	100%
OER	\$361.2	\$270.9	\$361.2	\$0.0	100%
Subtotal Regulatory	\$722.4	\$551.8	\$722.4	\$0.0	100%
TOTAL IMPLEMENTATION BUDGET	\$32,770.4	\$15,199.6	\$24,295.1	\$8,475.4	74%

Notes:

⁽¹⁾ Program Implementation Budget excludes Commitments, Company Incentive

PUC 1-12

Request:

Please explain if the Company believes that keeping the electric and gas budgets at the 2020 level would have a materially negative impact on:

- a. the efficacy of the programs, and
- b. the energy efficiency services market in Rhode Island.

Response:

- a. The impacts to programs would be a function of where specific cuts would be made. As the 2021 Annual Plan is the product of engagement with stakeholders, who came to an agreement on certain programmatic areas on which to focus in 2021, the Company would need to further engage with stakeholders in order to determine where specific cuts could be made. At that point, the Company would be in a better position to estimate the magnitude of such impact.
 - Currently, 72% of the 2021 budget supports services and product rebates and incentives provided directly to customers in support of installation of measures. Reducing budgets would necessitate the Company establishing and managing to lower savings and benefits targets, likely deferring customer access to these benefits to future years.
- b. There are potentially longer-term negative impacts on the energy efficiency services market in the state. As part of the 2021 Annual Plan, budgets as filed also included requested investments in a number of areas, including workforce development and technology system investments, which the Company believes are necessary in order to achieve the illustrative savings goals identified in y2022 and 2023. Deferring these investments would likely defer the timing in which the positive impacts of these investments could be realized through achievement of increased customer adoption of measures and ensuing savings and benefits.

Finally, the energy efficiency market is coming through a difficult period in 2020 resulting from COVID-19, and the job losses and furloughs that resulted from the suspension of on-premise services. During a time when the Company is encouraging the service provider market to restore delivery capacity, pulling back on planned investments and savings volumes in 2021 could send a negative signal to the market. This is particularly important right now, as the future success of energy efficiency programs in Rhode Island and the realization of associated customer benefits, will require ongoing

PUC 1-12, page 2

investments by energy efficiency providers in support of expanded service delivery capacity.

PUC 1-13

Request:

Please provide the electric and gas energy efficiency factors assuming that the 2021 implementation budgets are equal to the 2020 budgets. Please show this in two ways – with the original proposed forecasted kWh and Dths, and with the adjusted forecasts requested in PUC requests 1-7 and 1-8. Please provide a calculation of the total refund that would be returned to ratepayers from the resulting reduction in the budgets and factors compared to 2020.

Response:

See Attachment PUC 1-13 for a summary of the energy efficiency factors and calculation. Please see responses to PUC 1-7(c) and PUC 1-8(c) for explanation for only including a response to the first part of the request and not the adjusted forecasts requested in 1-7 and 1-8.

These proposed rates will be updated based on the Company's December 1, 2020 refile of the proposed energy efficiency surcharges in tables E-1 and G-1. The update to the 2020 year end fund balance forecast will be based on:

- 1. An update of the forecasted 2020 year end EE revenues collected from the 2020 EE surcharges based on two additional months of actuals.
- 2. An update of the forecasted 2020 year end energy efficiency program expenses.

For purposes of this year's December 1 updated fund balance forecasts submission, in the event that either of the year end fund balance forecasts increase, this will result in a lowering of the corresponding proposed 2021 energy efficiency surcharges. In the event that the year end fund balance forecasts decrease, the Company will propose 2021 surcharges that are the same as those included in the October 15, 2020 EE Annual Plan filing in order to honor the commitment to maintain flat surcharges between 2020 and 2021.

PUC 1-13-Revised

Request:

Please provide the electric and gas energy efficiency factors assuming that the 2021 implementation budgets are equal to the 2020 budgets. Please show this in two ways – with the original proposed forecasted kWh and Dths, and with the adjusted forecasts requested in PUC requests 1-7 and 1-8. Please provide a calculation of the total refund that would be returned to ratepayers from the resulting reduction in the budgets and factors compared to 2020.

Original Response:

See Attachment PUC 1-13 for a summary of the energy efficiency factors and calculation. Please see responses to PUC 1-7(c) and PUC 1-8(c) for explanation for only including a response to the first part of the request and not the adjusted forecasts requested in 1-7 and 1-8.

These proposed rates will be updated based on the Company's December 1, 2020 refile of the proposed energy efficiency surcharges in tables E-1 and G-1. The update to the 2020 year end fund balance forecast will be based on:

- 1. An update of the forecasted 2020 year end EE revenues collected from the 2020 EE surcharges based on two additional months of actuals.
- 2. An update of the forecasted 2020 year end energy efficiency program expenses.

For purposes of this year's December 1 updated fund balance forecasts submission, in the event that either of the year end fund balance forecasts increase, this will result in a lowering of the corresponding proposed 2021 energy efficiency surcharges. In the event that the year end fund balance forecasts decrease, the Company will propose 2021 surcharges that are the same as those included in the October 15, 2020 EE Annual Plan filing in order to honor the commitment to maintain flat surcharges between 2020 and 2021.

Revised Response:

See Attachments PUC 1-13-1 and PUC 1-13-2 for a summary of the energy efficiency factors and calculation.

These proposed rates will be updated based on the Company's December 1, 2020 refile of the proposed energy efficiency surcharges in tables E-1 and G-1. The update to the 2020 year end fund balance forecast will be based on:

PUC 1-13-Revised, page 2

- 1. An update of the forecasted 2020 year-end EE revenues collected from the 2020 EE surcharges based on two additional months of actuals.
- 2. An update of the forecasted 2020 year end energy efficiency program expenses.

For purposes of this year's December 1 updated fund balance forecasts submission, in the event that either of the year end fund balance forecasts increase, this will result in a lowering of the corresponding proposed 2021 energy efficiency surcharges. In the event that the year end fund balance forecasts decrease, the Company will propose 2021 surcharges that are the same as those included in the October 15, 2020 EE Annual Plan filing in order to honor the commitment to maintain flat surcharges between 2020 and 2021.

PUC 1-13 (Second Revised)

Request:

Please provide the electric and gas energy efficiency factors assuming that the 2021 implementation budgets are equal to the 2020 budgets. Please show this in two ways – with the original proposed forecasted kWh and Dths, and with the adjusted forecasts requested in PUC requests 1-7 and 1-8. Please provide a calculation of the total refund that would be returned to ratepayers from the resulting reduction in the budgets and factors compared to 2020.

Response:

This response represents a second revised version of the Company's original response to PUC 1-13 that was submitted on November 10, 2020 and revised response to PUC 1-13 that was submitted on November 12, 2020.

Original Response:

See Attachment PUC 1-13 for a summary of the energy efficiency factors and calculation. Please see responses to PUC 1-7(c) and PUC 1-8(c) for explanation for only including a response to the first part of the request and not the adjusted forecasts requested in 1-7 and 1-8.

These proposed rates will be updated based on the Company's December 1, 2020 refile of the proposed energy efficiency surcharges in tables E-1 and G-1. The update to the 2020 year end fund balance forecast will be based on:

- 1. An update of the forecasted 2020 year end EE revenues collected from the 2020 EE surcharges based on two additional months of actuals.
- 2. An update of the forecasted 2020 year end energy efficiency program expenses.

For purposes of this year's December 1 updated fund balance forecasts submission, in the event that either of the year end fund balance forecasts increase, this will result in a lowering of the corresponding proposed 2021 energy efficiency surcharges. In the event that the year end fund balance forecasts decrease, the Company will propose 2021 surcharges that are the same as those included in the October 15, 2020 EE Annual Plan filing in order to honor the commitment to maintain flat surcharges between 2020 and 2021.

PUC 1-13 (Second Revised), page 2

Revised Response:

See Attachments PUC 1-13-1 and PUC 1-13-2 for a summary of the energy efficiency factors and calculation.

These proposed rates will be updated based on the Company's December 1, 2020 refile of the proposed energy efficiency surcharges in tables E-1 and G-1. The update to the 2020 year end fund balance forecast will be based on:

- 1. An update of the forecasted 2020 year end EE revenues collected from the 2020 EE surcharges based on two additional months of actuals.
- 2. An update of the forecasted 2020 year end energy efficiency program expenses.

For purposes of this year's December 1 updated fund balance forecasts submission, in the event that either of the year end fund balance forecasts increase, this will result in a lowering of the corresponding proposed 2021 energy efficiency surcharges. In the event that the year end fund balance forecasts decrease, the Company will propose 2021 surcharges that are the same as those included in the October 15, 2020 EE Annual Plan filing in order to honor the commitment to maintain flat surcharges between 2020 and 2021.

For (c), the Company has revised its response, which is as follows:

The setting of the energy efficiency factor in table E-1 is calculated based upon two main factors.

- 1) The total customer funding required for the upcoming program year. (Line 6)
- 2) The forecast kWh sales (Line 7)

The Energy Program charge per kWh (excluding uncollectible recovery) (Line 8) is calculated by the below equation in table E-1:

Customer Funding Required / Forecast kWh Sales = The Energy Program charge per kWh (excluding uncollectible recovery)

Line 6 / Line 7 = Line 8

PUC 1-13 (Second Revised), page 3

In the both Attachment PUC 1-13 and Attachment PUC 1-13-2, the 2021 budgets proposed are set equal to the 2020 budgets. Therefore, the total customer funding required is equal in both responses (\$71,104,232)¹

The only variable that changes from Attachment PUC 1-13 to Attachment PUC 1-13-2 is updating the kWh forecast from 6,606,545,391 kWh in Attachment PUC 1-13 to 6,951,182,262 kWh in Attachment PUC 1-13-2. The result of this is that the proposed EE rate in Attachment 1-13 is \$0.01150/kWh is lowered to \$0.01094/kWh in Attachment PUC 1-13-2 since the kWh forecast is higher in Attachment PUC 1-13-2.

While the proposed rate does change between both Attachments, the "customer funding required" does not change because the proposed budgets (and therefore the Company's total customer funding required) are equal in both scenarios. The impact of a forecasted increase in deliveries is to reduce the rate charged to customers per unit of kWh sales. Since greater deliveries are being assumed, though, the approximate aggregate funding provided by customers remains the same, in line with the Company's fixed customer funding requirement.

The result of this is that the total reductions in collections for electric ratepayers are essentially the same amount in both Attachment PUC 1-13 and Attachment PUC 13-2. This results in the "Total Reduction Collections for Electric Ratepayers" being approximately the same, regardless of the kWh forecast assumed.

The reason for the slight variation between the "Total Reductions in Collections for Electric Ratepayer" between Attachment PUC 1-13 to Attachment PUC 1-13-2 is due to truncation.

Prepared by or under the supervision of: John Richards

¹ Note that this total does not include the additional 1.3% "uncollectable rate" applied in Line 11 of Table E-1.

Attachment 1-13

Electric

2020 Approved EE Rate (\$/kwh)	\$ 0.01323
2021 Proposed EE Rate from Attachment 1-13-1 (\$/kwh)	\$ 0.01150
Difference	\$ (0.00173)
Difference %	-13.1%
2020 Customer Collections	\$ 94,108,950
2021 Proposed Customer Collections	\$ 75,975,272
Difference	\$ (18,133,678)
Difference %	-19.3%
Total Reductions in Collections for Electric Ratepayers	\$ (18,133,678)

Gas

2020 Approved Residential EE Rate (\$/Dth)	\$ 1.0110
2021 Proposed Residential EE Rate from Attachment 1-	
31-2 (\$/Dth)	\$ 0.8400
Difference	\$ (0.17100)
Difference %	-16.9%
2020 Residential Customer Collections	\$ 20,577,741
2021 Proposed Residential Customer Collections	\$ 17,015,323
Difference	\$ (3,562,418)
Difference %	-17.3%

2020 Approved C&I EE Rate (\$/Dth)	0.704
2021 Proposed C&I EE Rate from Attachment 1-31-2	
(\$/Dth)	0.656
Difference	\$ (0.04800)
Difference %	-6.8%
2020 C&I Customer Collections	\$ 15,359,523
2021 Proposed C&I Customer Collections	\$ 12,038,693
Difference	\$ (3,320,830)
Difference %	-21.6%

Total Reductions in Collections for Gas Ratepayers	\$ (6,883,248)

Attachment 1-13-2

Electric

2020 Approved EE Rate (\$/kwh)	\$ 0.01323
2021 Proposed EE Rate from Attachment 1-13-2 (\$/kwh)	\$ 0.01094
Difference	\$ (0.00229)
Difference %	-17.3%
2020 Customer Collections	\$ 94,108,950
2021 Proposed Customer Collections	\$ 76,045,934
Difference	\$ (18,063,016)
Difference %	-19.2%
Total Reductions in Collections for Electric Ratepayers	\$ (18,063,016)

Gas

2020 Approved Residential EE Rate (\$/Dth)	\$ 1.0110
2021 Proposed Residential EE Rate from Attachment 1-	
31-2 (\$/Dth)	\$ 0.8440
Difference	\$ (0.16700)
Difference %	-16.5%
2020 Residential Customer Collections	\$ 20,577,741
2021 Proposed Residential Customer Collections	\$ 17,023,274
Difference	\$ (3,554,468)
Difference %	-17.3%

2020 Approved C&I EE Rate (\$/Dth)	0.704
2021 Proposed C&I EE Rate from Attachment 1-31-2	
(\$/Dth)	0.661
Difference	\$ (0.04300)
Difference %	-6.1%
2020 C&I Customer Collections	\$ 15,359,523
2021 Proposed C&I Customer Collections	\$ 12,044,798
Difference	\$ (3,314,724)
Difference %	-21.6%

Total Reductions in Collections for Gas Ratepayers	\$ (6,869,192)

PUC 1-14

Request:

In a table, please provide the following, assuming the proposed budget for the electric and gas programs in 2021 is approved as filed, and the Company proposes a budget for 2022 that is the same budget level as 2021:

- a. the electric and gas efficiency rates in 2022;
- b. the increase in rates relative to 2021;
- c. the increase in revenue required relative to 2021.

Response:

See Attachment PUC 1-14. The information included in this Attachment is based on the assumption that the 2021 year-end fund balance (a function of EE surcharge collections and projected full year 2021 energy efficiency program spending) will be estimated at \$0 in the December 2021 update to the PUC. In practice, adjustments to EE surcharge collections based on actual 2021 sales and updated energy efficiency program spending forecasts will adjust the 2021 Year End Fund balance up or down from \$0. Holding all else equal, a forecast of a positive 2021 year end fund balance forecast will decrease the 2022 EE surcharge. Conversely, a negative 2021 year end fund balance forecast will increase the 2022 EE surcharge.

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5076 Attachment PUC 1-14 Page 1 of 1

		Electric	G	ias
			Income Eligible and Non-Income Eligible Residential	Commercial & Industrial Rate
	2022 EE Rates Assuming the Proposed 2021 Budget is the			
a.	same in 2022	\$0.0161	\$1.1520	\$0.8020
b.	Increase Relative to Proposed 2021 EE Rates	21.7%	13.9%	13.9%
c.	Increase in revenue required relative to 2021 \$(000)	\$21,432	\$1,916	\$3,901

Revenue Required is assumed to be "Customer Funding Required" as identified in Table E-1, Line 6 and Table G-1, Line 5

PUC 1-15

Request:

Please provide the same as in request 1-14, but assuming the proposed budget for the electric programs in 2021 is approved as filed, and the Company proposes the high scenario budget for 2022 as provided in the three-year proposed plan.

Response:

See Attachment PUC 1-15. The information included in this Attachment is based on the assumption that the 2021 year-end fund balance (a function of EE surcharge collections and projected full year 2021 energy efficiency program spending) will be estimated at \$0 in the December 2021 update to the PUC. In practice, adjustments to EE surcharge collections based on actual 2021 sales and updated energy efficiency program spending forecasts will adjust the 2021 Year End Fund balance up or down from \$0. Holding all else equal, a forecast of a positive 2021 year end fund balance forecast will decrease the 2022 EE surcharge. Conversely, a negative 2021 year end fund balance forecast will increase the 2022 EE surcharge.

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		Electric G		as	
			Income Eligible and Non-Income Eligible Residential	Commercial & Industrial Rate	
	2022 EE Rates Assuming the Proposed 2022 Budget is				
h	the "high" scenario	\$0.0192	\$1.410	\$0.982	
i	Increase Relative to Proposed 2021 EE rates	45.3%	39.4%	39.4%	
j	Increase in revenue required relative to 2021 \$(000)	\$42,315	\$7,656	\$6,189	

Revenue Required is assumed to be "Customer Funding Required" as identified in Table E-1, Line 6 and Table G-1, Line 5

PUC 1-16

Request:

Referring to the Testimony of National Grid's witnesses, pages 8 and 9, the testimony indicates that the savings levels are achievable "only in the context of a robust economic recovery in 2022 and 2023." (page 9, lines 1-2). If the economy in 2022 continues to be hampered by the COVID crisis, please explain what criteria National Grid would use to adjust the savings targets and associated budgets.

Response:

In establishing binding annual savings goals, the Company works closely with stakeholders, including OER, the Division, and the EERMC and its consulting team, to establish targets that challenge the Company to realize all cost effective savings while also ensuring that planned savings (and associated budget requests) are achievable, prudent and reliable in light of the latest available data about statewide economic conditions and customer ability and willingness to adopt energy efficiency measures.

The three-year savings targets proposed by the EERMC and approved by the Commission were established based upon the 'Maximum Achievable' scenario determined through the execution of a potential study that was executed and completed prior to the onset of the COVID-19 pandemic or the resulting economic disruptions.

Should the Rhode Island economy in 2022 continue to be hampered by the COVID crisis, the Company would anticipate reviewing a number of criteria, in conjunction with stakeholders, in order to determine what adjustments to annual savings targets would be necessary to best align with the Company's obligations under the Least Cost Procurement Standards.

Macro-economic criteria would include state specific measures of GDP levels (and quarterly rates of change) and the Rhode Island unemployment rate, and as well as national and regional measures of consumer and business outlooks, including Moody's Analytics economic forecasts, the Consumer Confidence Index and the Institute for Supply Management (ISM) Manufacturing Index. The Company would anticipate using this data not only to estimate impacts on potential customer participation in energy efficiency programs, but also as an input into determining what level of procurement of energy efficiency, and resulting SBC surcharges and rate impacts, would meet the prudency standard as enumerated in Least Cost Procurement Standards.

PUC 1-16, page 2

The Company would also anticipate reviewing and incorporating contemporaneous data on performance of energy efficiency programs (including both the Rhode Island program in full year 2020 and the first half of 2021 as well as other analogous programs) in order to estimate the impact of evolving macro-economic conditions on levels of achievable savings.

While the Company does not anticipate establishing a formulaic relationship between changes to any of the variables listed above and resulting adjustments to planned savings targets, the Company does anticipate that each of these variables will provide input into a holistic and continuing approach to evaluating and establishing binding annual savings targets and associated budgets.

PUC 1-17

Request:

Please provide schedules that support the conclusions on page 67 (Bates 106) that "the cost of procuring 4,678,382 – 4,905,459 lifetime MWh (electric) is \$347,367,903 - \$364,578,538 less than if electric load was met by purchasing additional electric supply; and the cost of procuring 14,468,336 – 16,553,713 lifetime MMBtu (gas) is \$53,718,499 - \$62,328,085 less than if that natural gas load was met by purchasing additional natural gas supply." Please be sure to provide appropriate column references and row numbers, as well as appropriate footnotes on the schedules that describe the calculations and reference the sources.

Response:

Please see Attachment PUC 1-17-1 for the schedule calculating the cost of supply and cost of energy efficiency for the electric portfolio. Please see Attachment PUC 1-17-2 for the schedule calculating the cost of supply and cost of energy efficiency for the natural gas portfolio.

In calculating the cost of supply for this response, two corrections were made to the calculation as compared to the cost of supply in the filed 2021 Annual and 2021 – 2023 Three-Year Plans. In the filed cost of supply, the income eligible rate discount and arrearages were not included. The Company has reflected these values in the schedules provided as Attachments PUC 1-17-1 and PUC 1-17-2. Additionally, some categories of non-energy benefits were incorrectly included in the original calculations, which the Company has removed from the calculations provided in Attachments PUC 1-17-1 and PUC 1-17-2.

With these recalculations, the text on Page 67 (Bates Page 106) should read: "the cost of procuring 4,678,382 – 4,905,459 lifetime MWh (electric) is \$265,209,186 - \$276,768,195 less than if electric load was met by purchasing additional electric supply; and the cost of procuring 14,468,336 – 16,553,713 lifetime MMBtu (gas) is \$44,398,334 - \$51,607,519 less than if that natural gas load was met by purchasing additional natural gas supply."

In each of the stated ranges the low end of the range is the difference between the cost of supply and the cost of energy efficiency summed for the 2021 Annual Plan, the 2022 Base Case, and the 2023 Base Case. The high end of the range is the difference between the cost of supply and the cost of energy efficiency summed for the 2021 Annual Plan, the 2022 High Scenario, and the 2023 High Scenario.

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The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5076 Attachment PUC 1-17-1

Calculation of cost of supply compared to cost of energy efficiency for electric portfolio

		2021	20	22		20	23	
			Base Case		High Scenario	Base Case		High Scenario
Ref	а	b	С		d	e		f
1	Electric Energy Costs	\$ 79,608,071	\$ 97,723,670	\$	101,541,943	\$ 114,497,520	\$	124,564,414
2	Electric Generation Costs	\$ 17,193,202	\$ 18,467,575	\$	19,378,890	\$ 19,896,002	\$	22,293,273
3	Elecric Transmission Capacity Costs	\$ 22,819,412	\$ 23,840,627	\$	25,012,381	\$ 24,951,276	\$	27,945,863
4	Electric Distribution Capacity Cost	\$ 19,816,620	\$ 20,703,454	\$	21,721,018	\$ 21,667,953	\$	24,268,485
5	Natural Gas Costs	\$ (7,523,389)	\$ (21,233,619)	\$	(21,548,188)	\$ (40,182,758)	\$	(41,090,433)
6	Fuel Costs	\$ 19,057,521	\$ 21,515,863	\$	22,591,656	\$ 35,849,366	\$	38,928,810
7	Income Eligible Rate Discount	\$ 103,249	\$ 115,386	\$	121,155	\$ 128,132	\$	143,764
8	Arrearages	\$ 182,293	\$ 187,040	\$	196,392	\$ 192,263	\$	215,719
9	Price Effects	\$ 41,112,062	\$ 46,269,709	\$	48,183,658	\$ 52,600,788	\$	57,660,200
10	Non-embedded Greenhouse Gas Reduction Costs	\$ 36,202,413	\$ 36,966,692	\$	38,730,487	\$ 37,449,633	\$	42,000,356
11	Non-embedded Nitrous Oxide (NOx Costs)	\$ 1,739,435	\$ 1,285,448	\$	1,375,804	\$ 979,666	\$	1,217,303
12	Reliability Costs	\$ 100,836	\$ 98,664	\$	103,092	\$ 103,301	\$	114,673
13	Cost of supply = Sum of Rows 1 through 12	\$ 230,411,725	\$ 245,940,508	\$	257,408,289	\$ 268,133,143	\$	298,262,426
14	Program Implementation Expenses	\$ 116,806,026	\$ 130,367,936	\$	137,689,075	\$ 142,904,519	\$	161,348,275
15	Customer Contribution	\$ 18,435,780	\$ 26,524,977	\$	27,724,189	\$ 27,736,953	\$	30,810,899
16	Shareholder Incentive	\$ 5,500,000	\$ 5,500,000	\$	5,500,000	\$ 5,500,000	\$	5,500,000
17	Cost of energy efficiency = Sum of Rows 14 through							•
17	16	\$ 140,741,806	\$ 162,392,912	\$	170,913,264	\$ 176,141,472	\$	197,659,174
18	Difference = Row 13 - Row 17	\$ 89,669,919	\$ 83,547,596	\$	86,495,025	\$ 91,991,671	\$	100,603,251

Notes:

- (1) Table E-6, sum of Energy columns "Winter Peak, "Winter Off-Peak", "Summer Peak" and "Summer Off-Peak."
- (2) Table E-6, Capacity column "Summer Generation."
- (3) Table E-6, Capacity column "Trans."
- (4) Table E-6, Capacity column "Dist."
- (5) Table E-6, Non-electric column "Natural Gas."
- (6) Table E-6, sum of Non-electric columns "Natural Gas," "Oil", "Other Resource."
- (7) Calculations from Electric Benefit-Cost Model, 2021-2023 Plan
- (8) Calculations from Electric Benefit-Cost Model, 2021-2023 Plan
- (9) Table E-6, sum of Capacity column "Capacity DRIPE" and Energy column "Energy DRIPE."
- (10) Table E-6, Societal column "Carbon."
- (11) Table E-6, Societal column "NOx."
- (12) Table E-6, Capacity column "Reliability."
- (14) Attachment 2 Tables 1-5, column "Program Implementation Expenses."
- (15) Attachment 2 Tables 1-5, column "Customer Contribution."
- (16) Attachment 2 Tables 1-5, column "Shareholder Incentive."

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5076 Attachment PUC 1-17-2 Page 1 of 1

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5076 Attachment PUC 1-17-2

Calculation of cost of supply compared to cost of energy efficiency for natural gas portfolio

		2021	20	22		20	23	
			Base Case	H	ligh Scenario	Base Case	1	ligh Scenario
Ref	a	b	С		d	е		f
1	Electric Energy Costs	\$ 339,731	\$ 367,312	\$	422,409	\$ 450,611	\$	564,967
2	Electric Generation Costs	\$ 188,214	\$ 217,552	\$	250,185	\$ 277,625	\$	348,081
3	Elecric Tranmission Capacity Costs	\$ 210,473	\$ 227,310	\$	261,407	\$ 270,422	\$	339,050
4	Electric Distribution Capacity Cost	\$ 182,777	\$ 197,398	\$	227,008	\$ 234,838	\$	294,435
5	Natural Gas Costs	\$ 38,050,536	\$ 42,093,169	\$	48,279,348	\$ 51,202,434	\$	63,980,228
6	Fuel Costs	\$ -	\$ -	\$	-	\$ -	\$	-
7	Income Eligible Rate Discount	\$ 77,525	\$ 80,563	\$	92,648	\$ 83,930	\$	105,229
8	Arrearages	\$ 20,319	\$ 21,434	\$	24,650	\$ 22,674	\$	28,428
9	Price Effects	\$ 1,094,083	\$ 1,179,229	\$	1,349,781	\$ 1,421,605	\$	1,771,665
10	Non-embedded Greenhouse Gas Reduction Costs	\$ 17,238,325	\$ 18,985,924	\$	21,775,128	\$ 23,037,992	\$	28,785,280
11	Non-embedded Nitrous Oxide (NOx Costs)	\$ 2,453,474	\$ 2,702,807	\$	3,100,119	\$ 3,286,456	\$	4,106,772
12	Reliability Costs	\$ 10,200	\$ 11,155	\$	12,828	\$ 13,231	\$	16,589
13	Cost of supply = Sum of Rows 1 through 12	\$ 59,865,656	\$ 66,083,854	\$	75,795,508	\$ 80,301,818	\$	100,340,724
14	Program Implementation Expenses	\$ 36,916,618	\$ 39,139,177	\$	44,943,860	\$ 46,106,605	\$	57,695,535
15	Customer Contribution	\$ 9,744,826	\$ 11,154,288	\$	12,827,431	\$ 13,691,480	\$	17,166,100
16	Shareholder Incentive	\$ 1,700,000	\$ 1,700,000	\$	1,700,000	\$ 1,700,000	\$	1,700,000
17	Cost of energy efficiency = Sum of Rows 14 through 16	\$ 48,361,444	\$ 51,993,464	\$	59,471,291	\$ 61,498,086	\$	76,561,635
18	Difference = Row 13 - Row 17	\$ 11,504,212	\$ 14,090,390	\$	16,324,218	\$ 18,803,732	\$	23,779,089

Notes:

All values are from the Gas Benefit-Cost Model, 2021-2023 Plan. For 2021, Row (5) is equivalent to the column "Natural Gas" in table G-6. Rows (1)-(4), and rows (6)-(12) are components of the Column "Other Non-Gas Benefit" in table G-6.

- (14) Attachment 2 Tables 1-5, column "Program Implementation Expenses."
- (15) Attachment 2 Tables 1-5, column "Customer Contribution."
- (16) Attachment 2 Tables 1-5, column "Shareholder Incentive."

PUC 1-17 (Revised)

Request:

Please provide schedules that support the conclusions on page 67 (Bates 106) that "the cost of procuring 4,678,382 – 4,905,459 lifetime MWh (electric) is \$347,367,903 - \$364,578,538 less than if electric load was met by purchasing additional electric supply; and the cost of procuring 14,468,336 – 16,553,713 lifetime MMBtu (gas) is \$53,718,499 - \$62,328,085 less than if that natural gas load was met by purchasing additional natural gas supply." Please be sure to provide appropriate column references and row numbers, as well as appropriate footnotes on the schedules that describe the calculations and reference the sources.

Response:

This response represents a revised version of the Company's original response to PUC 1-17 that was submitted on November 10, 2020.

Please see Attachment PUC 1-17-1 (Revised) for the schedule calculating the cost of supply and cost of energy efficiency for the electric portfolio. Please see Attachment PUC 1-17-2 for the schedule calculating the cost of supply and cost of energy efficiency for the natural gas portfolio. Please note that Attachment PUC 1-17-2 is unchanged from the Company's original response.

In revising Attachment PUC 1-17-1 the Company has added benefits attributable to the ConnectedSolutions demand response programs. The costs of the ConnectedSolutions programs were included in the original submittal of PUC 1-17, but their corresponding benefits were omitted. The addition of the benefits associated with the ConnectedSolutions demand response programs appropriately summarizes the cost of supply for the electric portfolio, which is inclusive of demand response programs and energy efficiency programs, rather than only the energy efficiency programs.

As part of the Company's original response to PUC 1-17, the Company highlighted changes to the text on Page 67 (Bates Page 106). With these revised recalculations, the text on Page 67 (Bates Page 106) should be further revised to read: "the cost of procuring 4,678,382 – 4,905,459 lifetime MWh (electric) is \$397,318,112 - \$435,266,031 less than if electric load was met by purchasing additional electric supply; and the cost of procuring 14,468,336 – 16,553,713 lifetime MMBtu (gas) is \$44,398,334 - \$51,607,519 less than if that natural gas load was met by purchasing additional natural gas supply."

PUC 1-17 (Revised), page 2

In each of the stated ranges the low end of the range is the difference between the cost of supply and the cost of energy efficiency summed for the 2021 Annual Plan, the 2022 Base Case, and the 2023 Base Case. The high end of the range is the difference between the cost of supply and the cost of energy efficiency summed for the 2021 Annual Plan, the 2022 High Scenario, and the 2023 High Scenario.

The Narragansett Electric Company RIPUC Docket No. 5076 d/b/a National Grid

Calculation of cost of supply compared to cost of energy efficiency and demand response for electric portfolio Attachment PUC 1-17-1 (Revised)

L		2021	2022	22	20	2023
	-		Base Case	High Scenario	Base Case	High Scenario
Ref	e e	q	J	ъ	Ð	ļ
1	Electric Energy Costs	\$ 79,611,225	\$ 97,727,451	\$ 101,545,724	\$ 114,501,594	\$ 124,568,487
7	Electric Generation Costs	\$ 18,302,897	\$ 19,986,766	\$ 21,197,569	\$ 21,857,196	\$ 24,796,055
m	Elecric Transmission Capacity Costs	\$ 27,140,269	\$ 28,942,820	\$ 31,567,721	\$ 30,844,737	\$ 36,313,366
4	Electric Distribution Capacity Cost	\$ 23,568,898	\$ 25,134,252	\$ 27,413,745	\$ 26,785,898	\$ 31,534,913
2	Natural Gas Costs	\$ (7,302,558)	(20,769,721)	\$ (21,074,930)	(39,358,970)	\$ (40,239,831)
9	Fuel Costs	\$ 19,057,521	\$ 21,515,863	\$ 22,591,656	\$ 35,849,366	\$ 38,928,810
7	Income Eligible Rate Discount	\$ 103,823	\$ 116,017	\$ 121,818	\$ 128,826	\$ 144,543
∞	Arrearages	\$ 181,719	\$ 186,409	\$ 195,730	\$ 191,568	\$ 214,940
6	Price Effects	\$ 64,488,206	\$ 77,987,150	\$ 86,235,446	\$ 93,026,445	\$ 109,449,591
10	Non-embedded Greenhouse Gas Reduction Costs	\$ 36,204,083	\$ 36,968,858	\$ 38,732,652	\$ 37,451,974	\$ 42,002,697
11	11 Non-embedded Nitrous Oxide (NOx Costs)	\$ 1,739,435	\$ 1,285,448	\$ 1,375,804	999'626 \$	\$ 1,217,303
12	Reliability Costs	\$ 624,526	\$ 717,052	\$ 897,603	\$ 817,592	\$ 1,128,819
13	Cost of supply = Sum of Rows 1 through 12	\$ 263,720,046	\$ 289,798,366	\$ 310,800,538	\$ 323,075,891	\$ 370,059,692
14	14 Program Implementation Expenses	\$ 116,806,026	\$ 130,367,936	\$ 137,689,075	\$ 142,904,519	\$ 161,348,275
15	Customer Contribution	\$ 18,435,780	\$ 26,524,977	\$ 27,724,189	\$ 27,736,953	\$ 30,810,899
16	Shareholder Incentive	\$ 5,500,000	\$ 5,500,000	\$ 5,500,000	\$ 5,500,000	\$ 5,500,000
17	Cost of energy efficiency = Sum of Rows 14 through	\$ 140 741 806	\$ 162 392 912	\$ 170 913 264	\$ 176 141 472	721 659 Z61 \$
18	3 Difference = Row 13 - Row 17	\$ 122.978.239				

(1) Table E-6, sum of Energy columns "Winter Peak, "Winter Off-Peak", "Summer Peak" and "Summer Off-Peak.", and Table E-6B Energy columns "Summer Peak" and

"Summer Off-Peak"

(2) Table E-6 and E-6B, Capacity column "Summer Generation."

(3) Table E-6 and E-6B, Capacity column "Trans."

(4) Table E-6 and E-6B, Capacity column "Dist."

(5) Table E-6, Non-electric column "Natural Gas." less Gas DRIPE included in that column

(6) Table E-6, sum of Non-electric columns "Natural Gas," "Oil", "Other Resource."

(7) Calculations from Electric Benefit-Cost Model, 2021-2023 Plan

(9) Table E-6 and E-6B, sum of Capacity column "Capacity DRIPE" and Energy column "Energy DRIPE." and calculation from Electric Benefit-Cost Model, 2021-2023 Plan for (8) Calculations from Electric Benefit-Cost Model, 2021-2023 Plan

(12) Table E-6 and E-6B, Capacity column "Reliability." (11) Table E-6, Societal column "NOx."

(10) Table E-6 and E-6B, Societal column "Carbon."

"Gas DRIPE"

(14) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Program Implementation Expenses." N(15) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Customer Contribution."

(16) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Shareholder Incentive."

PUC 1-17-2

	Calculation of cost of supply c	compared to cost of	energy efficiency fo	compared to cost of energy efficiency for natural gas portfolio	ijo	
		2021	07	2022	20	2023
			Base Case	High Scenario	Base Case	High Scenario
Ref	В	q	3	Р	Э	ł
1	Electric Energy Costs	\$ 339,731	\$ 367,312	\$ 422,409	\$ 450,611	\$ 564,967
7	Electric Generation Costs	\$ 188,214	\$ 217,552	\$ 250,185	\$ 277,625	\$ 348,081
ĸ	Elecric Tranmission Capacity Costs	\$ 210,473	\$ 227,310	\$ 261,407	\$ 270,422	\$ 339,050
4	Electric Distribution Capacity Cost	\$ 182,777	\$ 197,398	\$ 227,008	\$ 234,838	\$ 294,435
2	Natural Gas Costs	\$ 38,050,536	\$ 42,093,169	\$ 48,279,348	\$ 51,202,434	\$ 63,980,228
9	Fuel Costs	- \$	- \$	- \$	- \$	- \$
7	Income Eligible Rate Discount	\$ 77,525	\$ \$0,563	\$ 92,648	\$ 83,930	\$ 105,229
œ	Arrearages	\$ 20,319	\$ 21,434	\$ 24,650	\$ 22,674	\$ 28,428
6	Price Effects	\$ 1,094,083	\$ 1,179,229	\$ 1,349,781	\$ 1,421,605	\$ 1,771,665
10	Non-embedded Greenhouse Gas Reduction Costs	\$ 17,238,325	\$ 18,985,924	\$ 21,775,128	\$ 23,037,992	\$ 28,785,280
11	Non-embedded Nitrous Oxide (NOx Costs)	\$ 2,453,474	\$ 2,702,807	\$ 3,100,119	\$ 3,286,456	\$ 4,106,772
12	Reliability Costs	\$ 10,200	\$ 11,155	\$ 12,828	\$ 13,231	\$ 16,589
13	Cost of supply = Sum of Rows 1 through 12	959'898'65 \$	\$ 66,083,854	\$ 75,795,508	\$ 80,301,818	\$ 100,340,724
14	Program Implementation Expenses	\$ 36,916,618	\$ 39,139,177	\$ 44,943,860	\$ 46,106,605	\$ 57,695,535
15	Customer Contribution	\$ 9,744,826	\$ 11,154,288	\$ 12,827,431	\$ 13,691,480	\$ 17,166,100
16	Shareholder Incentive	\$ 1,700,000	\$ 1,700,000	1,700,000	\$ 1,700,000	\$ 1,700,000
17	Cost of energy efficiency = Sum of Rows 14 through 16	\$ 48,361,444	\$ 51,993,464	\$ 59,471,291	\$ 61,498,086	\$ 76,561,635
18	Difference = Row 13 - Row 17	\$ 11,504,212	\$ 14,090,390	\$ 16,324,218	\$ 18,803,732	\$ 23,779,089

All values are from the Gas Benefit-Cost Model, 2021-2023 Plan. For 2021, Row (5) is equivalent to the column "Natural Gas" in table G-6. Rows (1)-(4), and rows (6) (12) are components of the Column "Other Non-Gas Benefit" in table G-6. Notes:

(14) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Program Implementation Expenses."

(15) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Customer Contribution."

(16) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Shareholder Incentive."

PUC 1-18

Request:

Please provide schedules that compare the cost of budgets solely against the electric energy costs and the electric generation costs, but excluding all other costs indicated in Table 36. Please be sure to provide appropriate column references and row numbers, as well as appropriate footnotes on the schedules that describe the calculations and reference the sources.

Response:

Please see Attachment PUC 1-18 for the schedule that compares the costs of budgets solely against the electric energy costs and the electric generation costs for the electric portfolio.

Attachment PUC 1-18

	Comparison of Costs of Budgets Against Electric Energy Costs and Electric Generation Costs	lgets Against Ele	ectric Ene	rgy Costs	and Electric Generation	ı Costs	
	Electric Energy	2021			2022	2023	
			Base	Base Case	High Scenario	Base Case	High Scenario
ef	В	q		J	р	a	f
1	Electric Energy Costs	\$ 79,608,071 \$ 97,723,670	'26 \$ 1	,723,670	\$ 101,541,943	\$	114,497,520 \$ 124,564,414
2	Electric Generation Costs	\$ 17,193,202 \$ 18,467,575	2 \$ 18,	,467,575	\$ 19,378,890	\$	19,896,002 \$ 22,293,273
3	Electric Energy + Generation Costs (a + b)	\$ 96,801,273 \$ 116,191,245	3 \$ 116,	,191,245	\$ 120,920,833	\$	134,393,522 \$ 146,857,686
4	Program Implementation Expenses	\$ 116,806,026 \$ 130,367,936	9 \$ 130	367,936	\$ 137,689,075	\$	142,904,519 \$ 161,348,275
2	Shareholder Incentive	\$ 5,500,000 \$ 5,500,000	(\$ 5	,500,000	\$ 5,500,000	\$	5,500,000 \$ 5,500,000
9	Cost of Budgets (d + e)	\$ 122,306,026 \$ 135,867,936	5 \$ 135,	,867,936	\$ 143,189,075	\$	148,404,519 \$ 166,848,275
7	7 Difference (c - f)	\$ (25,504,753) \$ (19,676,691)) \$ (19)((169'92)	\$ (22,268,242) \$		(14,010,997) \$ (19,990,588)

Notes:

(1) Table E-6, sum of columns "Winter Peak, "Winter Off-Peak", "Summer Peak" and "Summer Off-Peak."

(2) Table E-6, column "Summer Generation."

(4) Attachment 2 Tables 1-5, column "Program Implementation Expenses." (5) Attachment 2 Tables 1-5, column "Shareholder Incentive."

PUC 1-18 (Revised)

Request:

Please provide schedules that compare the cost of budgets solely against the electric energy costs and the electric generation costs, but excluding all other costs indicated in Table 36. Please be sure to provide appropriate column references and row numbers, as well as appropriate footnotes on the schedules that describe the calculations and reference the sources.

Response:

This response represents a revised version of the Company's original response to PUC 1-18 that was submitted on November 10, 2020.

Please see Attachment PUC 1-18-1 (Revised) for the schedule that compares the costs of budgets solely against the electric energy costs and the electric generation costs for the electric portfolio. In this revised version of the response to PUC 1-18, the Company has added benefits from the ConnectedSolutions programs into the cost of supply calculation. Costs of these programs were included in the original response to PUC 1-18.

The Narragansett Electric Company d/b/a National Grid

RIPUC Docket No. 5076 Attachment PUC 1-18-1 (Revised) Comparison of Costs of Budgets Against Electric Energy Costs and Electric Generation Costs for the Electric Portfolio

	Electric Energy	2021			2022	2023	
				Base Case	High Scenario	Base Case	High Scenario
Ref	В	q		U	σ	Ð	ų.
1	Electric Energy Costs	\$ 79,611	, 225	\$ 79,611,225 \$ 97,727,451 \$	\$ 101,545,724 \$		114,501,594 \$ 124,568,487
2	Electric Generation Costs	\$ 18,302	\$ 268	\$ 18,302,897 \$ 19,986,766 \$	\$ 21,197,569 \$		21,857,196 \$ 24,796,055
က	Electric Energy and Generation Costs (Sum of Row 1 and Row 2)	\$ 97,914	,122	97,914,122 \$ 117,714,217	\$ 122,743,292	\$	136,358,789 \$ 149,364,542
4	Program Implementation Expenses	\$ 116,806	5 970	\$ 116,806,026 \$ 130,367,936	\$ 137,689,075	\$	142,904,519 \$ 161,348,275
2	Shareholder Incentive	\$ 5,500	000	5,500,000 \$ 5,500,000	\$ 5,500,000	\$	5,500,000 \$ 5,500,000
9	Cost of Budgets (Sum of Row 4 and Row 5)	\$ 122,306	\$ 970	\$ 122,306,026 \$ 135,867,936	\$ 143,189,075	\$	148,404,519 \$ 166,848,275
7	Difference (Row 3 - Row 6)	\$ (24,391,	904) \$	\$ (24,391,904) \$ (18,153,719) \$	\$ (20,445,783) \$		(12,045,730) \$ (17,483,733)

Notes:

(1) Table E-6, sum of Energy columns "Winter Peak, "Winter Off-Peak", "Summer Peak" and "Summer Off-Peak.", and Table E-6B Energy columns "Summer Peak" and "Summer Off-Peak"

(2) Table E-6 and E-6B, Capacity column "Summer Generation."

(4) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Program Implementation Expenses."

(5) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Shareholder Incentive."

PUC 1-19

Request:

Please provide greater explanation for why "income eligible rate discount" and "arrearages" are costs of procuring additional energy. Please explain why they are not costs of procuring energy efficiency.

Response:

In accordance with the Least Cost Procurement Standards approved by the PUC in Docket No. 5015, the Company has developed the cost of supply methodology to align with the Rhode Island Benefit Cost Framework.

Income eligible rate discount and arrearages are categories of avoided costs in the Rhode Island Test that are considered benefits. Energy efficiency programs help to avoid these costs. Therefore, they are categorized as costs of energy in the cost of supply test with the understanding that in a world without energy efficiency, income eligible rate discount and arrearages are costs the Company would continue to incur in procuring energy.

PUC 1-20

Request:

Please provide greater explanation of what "price effects" are in the cost of additional supply, and why this cost is included.

Response:

In accordance with the Least Cost Procurement Standards approved by the PUC in Docket No. 5015, the Company has developed the cost of supply methodology to align with the perspective of the Rhode Island Benefit Cost Framework.

As noted in Attachment 4 of the Annual Plan, the Demand-Reduction-Induced Price Effect (DRIPE) is the reduction in prices in energy and capacity markets resulting from the reduction in need for energy and/or capacity due to efficiency and/or demand response programs. Consumers' investments in energy efficiency avoid both marginal energy production and capital investments, but also lead to structural changes in the market due to lower demand. Over a period of time, the market adjusts to lower demand, but until that time the reduced demand leads to a reduction in the market price of electricity. This is observed in the New England market when ISO-New England activates its price response programs.

In the absence of energy efficiency, the price effects on the market would be negated, and therefore these effects should be included in the cost of supply.

PUC 1-21

Request:

Does the Company support the inclusion of economic development benefits in the quantification of benefits for energy efficiency? If so, how does the Company reconcile this with the sensitivity analysis approach for Grid Mod and AMF in which economic development benefits are only used as a sensitivity due to lack of confidence in the numbers described to the PUC at a workshop related to Docket 4770 held on September 24, 2020?

Response:

Yes, the Company believes that macroeconomic benefits are appropriate to include in the quantification of benefits of energy efficiency, in alignment with the guidance in Docket 4600 for the RI Test matrix. In the context of energy efficiency, economic development benefits are an estimable societal benefit stream that accrue as the result of the implementation of energy efficiency measures, and their inclusion in the quantification of benefits is consistent with the principles of Docket 4600.

In order to estimate economic impacts of energy efficiency programs and measures, the Company commissioned a third-party consultant in 2018 to undertake and complete a study in 2019 that defined a methodology for estimating GDP multipliers attributable to the Company's energy efficiency programs. The methodology is designed and was implemented to avoid double counting with respect to other benefits included in the RI Test.

In other contexts, the Company has determined that producing quantified estimates of the economic development benefits associated with implementing less established measures comes with less certainty, and therefore warrants a more conservative approach to their inclusion in the benefit streams associated with those measures. For this reason, the Company has included economic development benefits only as a sensitivity in its benefit-cost analysis for Grid Modernization and AMF. Given the relative maturity of the energy efficiency portfolios, however, the Company believes that these economics benefits are more estimable in the context of energy efficiency. Particularly given that these estimates are supported by independent studies, it is appropriate to include the quantified macroeconomic benefits associated with these programs as a component of the RI Test in evaluating the benefit costs ratios of energy efficiency programs.

¹ Brattle Group, Review of RI Test and Proposed Methodology, January 31, 2019. http://www.ripuc.ri.gov/eventsactions/docket/5076%20National%20Grid%20EEP%20&%203-Yr%20EEP/15%20Brattle%20Group%20Review%20of%20RI%20Test%20and%20Proposed%20Methodology%20Final%201-31-19.pdf

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5076 2021-2023 Energy Efficiency Program Plan & 2021 Annual Energy Efficiency Program Plan Responses to Commission's First Set of Data Requests Issued on November 3, 2020

PUC 1-22

Request:

Referring to the Testimony on page 28, (section 5), please perform analyses comparing both the total implementation costs and the implementation costs of <u>each individual electric and gas program</u> against the acquisition cost of additional supply. Provide schedules showing the calculations, with appropriate column references and row numbers as well as footnotes on the schedules that describe the calculations and sources. Please perform these analyses in three ways, with a summary table and accompanying schedules: (1) comparing total and individual program cost against the cost of supply measured consistently with the cost components identified in Table 36, (2) comparing the total and individual program cost against the cost of supply measured only by electric energy costs, electric generation costs, electric transmission costs, electric distribution capacity costs, and price effects, but excluding all other costs indicated in Table 36, and (3) comparing the total and individual program cost solely against the electric energy costs and the electric generation costs, but excluding all other costs indicated in Table 36. Please be sure to provide appropriate column references and row numbers, as well as appropriate footnotes on the schedules that describe the calculations and sources.

Response:

Please see the attached summary and detailed schedules for the requested variations on the cost of supply calculations. Schedules 1-22-1 to 1-22-12 show the detailed calculations for the natural gas portfolio and programs. Schedule 1-22-13 summarizes the analyses in Schedules 1-22-1 to 1-22-12. Schedules 1-22-14 to 1-22-28 represent the electric portfolio and programs. Schedule 1-22-29 summarizes those preceding schedules for the electric portfolio.

The schedules illustrate the three variants as outlined in the request for the portfolios and each program. With respect to the electric portfolio and programs, variants (2) and (3) illustrate the alternative cost of supply calculations as indicated in the request. With respect to the natural gas portfolio and programs, variants (2) and (3) illustrate the cost of supply as follows: Variant (2) considers the cost of natural gas (which includes retail margin) and the gas price effects against the implementation costs. Variant (3) considers only the cost of natural gas compared to the implementation costs.

To conduct this additional analysis of cost of supply the Company took several additional steps to assess cost of supply at program-level rather than portfolio-level. These additional data processing steps are described below.

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5076 2021-2023 Energy Efficiency Program Plan & 2021 Annual Energy Efficiency Program Plan Responses to Commission's First Set of Data Requests Issued on November 3, 2020

PUC 1-22, page 2

- Distributing sector-level implementation costs to programs: Some categories of implementation costs are included in the plans at the sector-level. To analyze cost of supply at the program level sector-level costs were distributed to programs by multiplying those sector-level costs by the ratio of the program's direct programmatic costs to all direct programmatic costs within the sector. This is an approximation for the purposes of this cost of supply calculation and is not necessarily reflective of the distribution of these costs in actual implementation.
- Distributing sector-level shareholder incentive costs to programs: The shareholder incentive amounts are planned at the sector-level. To analyze cost of supply at the program level sector-level shareholder incentive costs were distributed to programs by multiplying those sector-level shareholder incentive costs by the ratio of the program's direct programmatic costs to all direct programmatic costs within the sector. This is an approximation for the purposes of this cost of supply calculation and is not necessarily reflective of the actual distribution of shareholder incentive. This approach does not apply to the ConnectedSolutions programs, which are not eligible for the energy efficiency shareholder incentive.
- **Distributing portfolio-level costs to programs**: Some costs are defined at the portfolio level (EERMC and OER costs). They are allocated to programs for the purpose of this analysis by multiplying those portfolio level costs by the ratio of the program's direct programmatic costs to all direct programmatic costs across all sectors. This is an approximation for the purposes of this cost of supply calculation.

	Calculation of cost of supply compared to cost of energy efficiency for natural gas portfolio - Part 1	ed to cost of energy	efficiency for nat	ural gas portfolio	Part 1	
	Gas Energy	2021	2022	22	20	2023
			Base Case	High Scenario	Base Case	High Scenario
Ref	if a	q	C	р	Э	f
1	Electric Energy Costs	\$339,731	\$367,312	\$422,409	\$450,611	\$564,967
7	2 Electric Generation Costs	\$188,214	\$217,552	\$250,185	\$277,625	\$348,081
3	3 Electric Transmission Capacity Costs	\$210,473	\$227,310	\$261,407	\$270,422	\$339,050
4	. Electric Distribution Capacity Cost	\$182,777	\$197,398	\$227,008	\$234,838	\$294,435
2	5 Natural Gas Costs	\$38,050,536	\$42,093,169	\$48,279,348	\$51,202,434	\$63,980,228
9	Fuel Costs	0\$	0\$	0\$	0\$	\$0
7	Income Eligible Rate Discount	\$77,525	\$80,563	\$92,648	\$83,930	\$105,229
∞	8 Arrearages	\$20,319	\$21,434	\$24,650	\$22,674	\$28,428
6	Price Effects	\$1,094,083	\$1,179,229	\$1,349,781	\$1,421,605	\$1,771,665
10	Non-embedded Greenhouse Gas Reduction Costs	\$17,238,325	\$18,985,924	\$21,775,128	\$23,037,992	\$28,785,280
ij	11 Non-embedded Nitrous Oxide (NOx Costs)	\$2,453,474	\$2,702,807	\$3,100,119	\$3,286,456	\$4,106,772
1,	12 Reliability Costs	\$10,200	\$11,155	\$12,828	\$13,231	\$16,589
ij	13 Cost of supply (Sum of rows 1-12)	\$59,865,656	\$66,083,854	\$75,795,508	\$80,301,818	\$100,340,724
1,	14 Program Implementation Expenses	\$36,916,618	\$39,139,177	\$44,943,860	\$46,106,605	\$57,695,535
ij	15 Customer Contribution	\$9,744,826	\$11,154,288	\$12,827,431	\$13,691,480	\$17,166,100
7	16 Shareholder Incentive	\$1,700,000	\$1,700,000	\$1,700,000	\$1,700,000	\$1,700,000
1,	17 Cost of energy efficiency (Sum of rows 14-16)	\$48,361,444	\$51,993,464	\$59,471,291	\$61,498,086	\$76,561,635
18	18 Difference (Row 13 - Row 17)	\$11,504,212	\$14,090,390	\$16,324,218	\$18,803,732	\$23,779,089
:		*				T

Notes:

All values are from the Gas Benefit-Cost Model, 2021-2023 Plan. For 2021, Row (5) is equivalent to the column "Natural Gas" in table G-6. Rows (1)-(4), and rows (6)-(12) are components of the Column "Other Non-Gas Benefit" in table G-6.

(14) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Program Implementation Expenses."

(15) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Customer Contribution."

(16) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Shareholder Incentive."

	Calculation of cost of supply compared to cost of energy efficiency for natural gas portfolio - Part 2	d to cost of energy	efficiency for nat	ural gas portfolio	- Part 2	
	Gas Energy	2021	2022	22	20	2023
			Base Case	High Scenario	Base Case	High Scenario
Ref	В	q	J	ъ	ө	f
1	1 Natural Gas Costs	\$38,050,536	\$42,093,169	\$48,279,348	\$51,202,434	\$63,980,228
7	2 Natural Gas Price Effects	4997,957	\$1,075,846	\$1,230,890	\$1,298,955	\$1,617,889
8	3 Cost of supply (Sum of rows 1-2)	\$39,048,492	\$43,169,015	\$49,510,238	\$52,501,388	\$65,598,117
4	4 Program Implementation Expenses	\$36,916,618	\$39,139,177	\$44,943,860	\$46,106,605	\$57,695,535
2	5 Customer Contribution	\$9,744,826	\$11,154,288	\$12,827,431	\$13,691,480	\$17,166,100
9	6 Shareholder Incentive	\$1,700,000	\$1,700,000	\$1,700,000	\$1,700,000	\$1,700,000
7	7 Cost of energy efficiency (Sum of rows 4-6)	\$48,361,444	\$51,993,464	\$59,471,291	\$61,498,086	\$76,561,635
∞	8 Difference (Row 3 - Row 7)	-\$9,312,951	-\$8,824,449	-\$9,961,053	-\$8,996,697	-\$10,963,518

Notes:

All values are from the Gas Benefit-Cost Model, 2021-2023 Plan. For 2021, Row (1) is equivalent to the column "Natural Gas" in table G-6. Row (2) is a

component of the Column "Other Non-Gas Benefit" in table G-6.

(4) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Program Implementation Expenses."

(5) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Customer Contribution."

(6) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Shareholder Incentive."

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	Gas Energy	2021	2022	22	20	2023
			Base Case	High Scenario	Base Case	High Scenario
Ref	В	q	J	р	Э	f
1 Na	Natural Gas Costs	985'020'88\$	\$42,093,169	\$48,279,348	\$51,202,434	\$63,980,228
2 Co	2 Cost of supply (Row 1)	\$38,050,536	\$42,093,169	\$48,279,348	\$51,202,434	\$63,980,228
3 Pr	3 Program Implementation Expenses	\$36,916,618	\$39,139,177	\$44,943,860	\$46,106,605	\$57,695,535
4 Cu	4 Customer Contribution	\$9,744,826	\$11,154,288	\$12,827,431	\$13,691,480	\$17,166,100
5 Sh	5 Shareholder Incentive	\$1,700,000	\$1,700,000	\$1,700,000	\$1,700,000	\$1,700,000
9 Co	6 Cost of energy efficiency (Sum of rows 3-5)	\$48,361,444	\$51,993,464	\$59,471,291	\$61,498,086	\$76,561,635
7 Di	7 Difference (Row 2 - Row 6)	-\$10,310,908	-\$9,900,296	-\$11,191,943	-\$10,295,652	-\$12,581,407

Notes:

All values are from the Gas Benefit-Cost Model, 2021-2023 Plan. For 2021, Row (1) is equivalent to the column "Natural Gas" in table G-6.

(3) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Program Implementation Expenses." (4) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Customer Contribution."

(5) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Shareholder Incentive."

Calcu	Calculation of cost of supply compared to cost of energy efficiency for Natural Gas Residential Energy Star HVAC Program- Part 1	ency for Natural	Gas Residentia	al Energy Star	HVAC Progran	n- Part 1
	Gas Energy	2021	2022	.2	20	2023
			Base Case	High Scenario	Base Case	High Scenario
Ref	ro .	q	С	ъ	ə	ţ
1	Electric Energy Costs	\$19,155	\$25,880	\$29,762	\$32,270	\$40,460
2	Electric Generation Costs	\$35,837	\$48,731	\$56,041	\$64,418	\$80,766
3	Electric Transmission Capacity Costs	\$44,909	\$55,526	\$63,855	\$67,187	\$84,238
4	Electric Distribution Capacity Cost	\$38,999	\$48,220	\$55,453	\$58,346	\$73,153
2	Natural Gas Costs	\$6,410,428	\$8,263,138	\$9,502,609		\$10,033,882 \$12,580,278
9	Fuel Costs	0\$	0\$	0\$	0\$	0\$
7	Income Eligible Rate Discount	0\$	0\$	0\$	0\$	0\$
8	Arrearages	0\$	0\$	0\$	0\$	0\$
6	Price Effects	\$133,600	\$171,480	\$197,202	\$207,491	\$260,148
10	Non-embedded Greenhouse Gas Reduction Costs	\$2,712,385	\$3,484,435	\$4,007,100	\$4,215,931	\$5,285,849
11	Non-embedded Nitrous Oxide (NOx Costs)	\$373,624	\$479,995	\$551,994	\$580,794	\$728,188
12	Reliability Costs	\$2,790	\$3,449	\$3,967	\$4,174	\$5,233
13	Cost of supply (Sum of rows 1-12)	\$9,771,727	\$12,580,855	\$14,467,984	\$12,580,855 \$14,467,984 \$15,264,493 \$19,138,312	\$19,138,312
14	Program Implementation Expenses (Direct)	\$3,673,047	\$4,568,015	\$5,253,217	\$5,695,898	\$7,141,402
15	Program Implementation Expenses (Distributed from					
CT.	sector level)	\$58,141	\$80,967	\$93,426	\$92,555	\$116,525
16	Program Implementation Expenses (OER and EERMC					
70	Distributed from portfolio level)	\$66,359	\$97,078	\$111,811	\$120,160	\$150,958
17	Customer Contribution	\$4,539,347	\$5,924,834	\$6,813,560	\$6,937,272	\$8,697,811
18	Shareholder Incentive (Distributed from sector level)	\$133,638	\$158,837	\$159,374	\$156,687	\$157,337
19	Cost of energy efficiency (Sum of rows 14-18)	\$8,470,533	\$10,829,732	\$12,431,387	\$10,829,732 \$12,431,387 \$13,002,573 \$16,264,033	\$16,264,033
20	Difference (Row 13 - Row 19)	\$1,301,194	\$1,751,124	\$1,751,124 \$2,036,596	\$2,261,920	\$2,874,279

Notes:

All values are from the Gas Benefit-Cost Model, 2021-2023 Plan. For 2021, Row (5) is equivalent to the column "Natural Gas" in table G-6.

Rows (1)-(4), and rows (6)-(12) are components of the Column "Other Non-Gas Benefit" in table G-6. (14) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Program Implementation Expenses."

(15) Some costs are only at the sector level. They are allocated to programs for the purpose of this analysis by multiplying those sector

(15) some costs are only at the sector level. I ney are allocated to programs for the purpose of this analysis by multiplying level costs by the ratio of the program's direct programmatic costs to the sector direct programmatic costs.

purpose of this analysis by multiplying the sector level shareholder incentive by the ratio of the program's direct programmatic costs to the (18) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Shareholder Incentive." This category is allocated to programs for the multiplying those portfolio level costs by the ratio of the program's direct programmatic costs to the all direct programmatic costs. (17) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Customer Contribution."

(16) Some costs are only at the portfolio level (EERMC and OER costs). They are allocated to programs for the purpose of this analysis by

sector direct programmatic costs.

Calcu	Calculation of cost of supply compared to cost of energy efficiency for natural Gas Residential Energy Star HVAC Program- Part 2	ency tor Natural	Gas Kesidentik	ıı Energy star	HVAC Progran	n- Part 2
	Gas Energy	2021	2022	2	20	2023
			Base Case	High	Raco Caco	High
			2630	Scenario	200	Scenario
Ref	В	q	U	р	Э	f
1	Natural Gas Costs	\$6,410,428	\$6,410,428 \$8,263,138 \$9,502,609 \$10,033,882 \$12,580,278	\$9,502,609	\$10,033,882	\$12,580,278
2	Natural Gas Price Effects	\$123,049		\$157,831 \$181,506 \$190,976	\$190,976	\$239,441
3	Cost of supply (Sum of rows 1-2)	\$6,533,478	\$6,533,478 \$8,420,970 \$9,684,115 \$10,224,858 \$12,819,719	\$9,684,115	\$10,224,858	\$12,819,719
4	Program Implementation Expenses (Direct)	\$3,673,047	\$4,568,015	\$4,568,015 \$5,253,217 \$5,695,898 \$7,141,402	\$5,695,898	\$7,141,402
L	Program Implementation Expenses (Distributed from					

\$116,525

\$92,555

\$93,426

\$80,967

\$58,141

\$150,958

\$120,160

\$111,811

\$97,078

\$66,359

Program Implementation Expenses (OER and EERMC

sector level)

Ŋ

Distributed from portfolio level)

9

Customer Contribution

\$8,697,81

\$6,937,272

\$6,813,560

\$5,924,834

\$16,264,033

\$157,337

\$156,687

\$159,374

\$158,837

\$133,638

Shareholder Incentive (Distributed from sector level)

8 6

Cost of energy efficiency (Sum of rows 4-8)

Difference (Row 3 - Row 9)

10

-\$2,408,762 -\$2,747,272 -\$2,777,715 -\$3,444,313

\$12,431,387 \$13,002,573

\$10,829,732

\$8,470,533

-\$1,937,055

All values are from the Gas Benefit-Cost Model, 2021-2023 Plan. For 2021, Row (5) is equivalent to the column "Natural Gas" in table G-6. Notes:

Rows (1)-(4), and rows (6)-(12) are components of the Column "Other Non-Gas Benefit" in table G-6. (4) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Program Implementation Expenses."

(5) Some costs are only at the sector level. They are allocated to programs for the purpose of this analysis by multiplying those sector level costs by the ratio of the program's direct programmatic costs to the sector direct programmatic costs. (6) Some costs are only at the portfolio level (EERMC and OER costs). They are allocated to programs for the purpose of this analysis by multiplying those portfolio level costs by the ratio of the program's direct programmatic costs to the all direct programmatic costs.

(7) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Customer Contribution."

purpose of this analysis by multiplying the sector level shareholder incentive by the ratio of the program's direct programmatic costs to the (8) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Shareholder Incentive." This category is allocated to programs for the sector direct programmatic costs.

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Calcu	Calculation of cost of supply compared to cost of energy efficiency for Natural Gas Residential Energy Star HVAC Program- Part 3	ency tor Natural	Gas Residentia	ıl Energy Star	HVAC Progran	n- Part 3
	Gas Energy	2021	2022	2	2023	23
			Base Case	High	Base Case	High
900		٤	,	Scenario		Scenario
-	0 cm+cN	56 A10 A20	\$ 262 120		\$ 50 500 \$10 033 883 \$13 580 328	\$12 E80 279
-	Natural Gas Costs	\$0,41U,428	\$6,203,138		\$10,033,882	\$17,080,21¢
2	Cost of supply (Row 1)	\$6,410,428	\$8,263,138		\$9,502,609 \$10,033,882 \$12,580,278	\$12,580,278
3	Program Implementation Expenses (Direct)	\$3,673,047	\$4,568,015	\$4,568,015	\$5,695,898	\$7,141,402
,	Program Implementation Expenses (Distributed from					
•	sector level)	\$58,141	\$80,967	\$93,426	\$92,555	\$116,525
L	Program Implementation Expenses (OER and EERMC					
n	Distributed from portfolio level)	\$66,359	\$97,078	\$97,078 \$111,811 \$120,160	\$120,160	\$150,958
9	Customer Contribution	\$4,539,347	\$5,924,834	\$6,813,560	\$6,937,272	\$8,697,811
7	Shareholder Incentive (Distributed from sector level)	\$133,638		\$158,837 \$159,374	\$156,687	\$157,337
8	Cost of energy efficiency (Sum of rows 3-7)	\$8,470,533	\$10,829,732 \$12,431,387 \$13,002,573 \$16,264,033	\$12,431,387	\$13,002,573	\$16,264,033
6	Difference (Row 2 - Row 8)	-\$2,060,105		-\$2,566,593 -\$2,928,778 -\$2,968,691 -\$3,683,755	-\$2,968,691	-\$3,683,755

Notes:

All values are from the Gas Benefit-Cost Model, 2021-2023 Plan. For 2021, Row (5) is equivalent to the column "Natural Gas" in table G-6.

Rows (1)-(4), and rows (6)-(12) are components of the Column "Other Non-Gas Benefit" in table G-6.

(4) Some costs are only at the sector level. They are allocated to programs for the purpose of this analysis by multiplying those sector level (3) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Program Implementation Expenses." costs by the ratio of the program's direct programmatic costs to the sector direct programmatic costs. (5) Some costs are only at the portfolio level (EERMC and OER costs). They are allocated to programs for the purpose of this analysis by multiplying those portfolio level costs by the ratio of the program's direct programmatic costs to the all direct programmatic costs.

(6) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Customer Contribution."

purpose of this analysis by multiplying the sector level shareholder incentive by the ratio of the program's direct programmatic costs to the (7) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Shareholder Incentive." This category is allocated to programs for the sector direct programmatic costs.

	Calculation of cost of supply compared to cost of energy efficiency for Natural Gas Residential EnergyWise Single Family Program- Part 1	rgy efficiency for Na	ıtural Gas Resident	ial EnergyWise Sing	e Family Program-	Part 1
	Gas Energy	2021	20	2022	20	2023
			Base Case	High Scenario	Base Case	High Scenario
Ref	ъ	q	v	ъ	a	ţ
1	Electric Energy Costs	\$191,508	\$201,147	\$231,320	\$264,750	\$331,939
2	Electric Generation Costs	\$90,026	\$98,499	\$113,274	\$133,944	\$167,936
æ	Electric Transmission Capacity Costs	\$95,225	\$97,949	\$112,641	\$125,532	\$157,389
4	Electric Distribution Capacity Cost	\$82,694	\$85,060	\$97,819	\$109,013	\$136,679
2	Natural Gas Costs	\$5,296,032	\$5,460,964	\$6,280,109	\$7,022,566	\$8,804,751
9	Fuel Costs	0\$	0\$	0\$	0\$	0\$
7	Income Eligible Rate Discount	0\$	0\$	0\$	0\$	0\$
8	Arrearages	0\$	0\$	0\$	0\$	0\$
6	Price Effects	\$124,865	\$128,399	\$147,659	\$164,558	\$206,319
10	Non-embedded Greenhouse Gas Reduction Costs	\$2,268,147	\$2,331,019	\$2,680,672	\$2,986,011	\$3,743,799
11	Non-embedded Nitrous Oxide (NOx Costs)	\$306,740	\$315,385	\$362,692	\$404,189	\$506,764
12	Reliability Costs	\$3,985	\$4,100	\$4,715	\$5,254	\$6,588
13	Cost of supply (Sum of rows 1-12)	\$8,459,221	\$8,722,522	\$10,030,900	\$11,215,818	\$14,062,164
14	Program Implementation Expenses (Direct)	\$10,063,228	\$10,005,776	\$11,506,642	\$13,398,137	\$16,798,312
15	Program Implementation Expenses (Distributed from					
;	sector level)	\$159,293	\$177,349	\$204,640	\$217,712	\$274,094
16	Program Implementation Expenses (OER and EERMC					
0.7	Distributed from portfolio level)	\$181,807	\$212,640	\$244,911	\$282,646	\$355,089
17	Customer Contribution	\$816,496	\$903,058	\$1,038,516	\$1,239,299	\$1,553,808
18	Shareholder Incentive (Distributed from sector level)	\$366,136	\$347,917	\$349,092	\$368,567	\$370,095
19	Cost of energy efficiency (Sum of rows 14-18)	\$11,586,960	\$11,646,740	\$13,343,800	\$15,506,360	\$19,351,399
20	Difference (Row 13 - Row 19)	-\$3,127,739	-\$2,924,218	-\$3,312,901	-\$4,290,543	-\$5,289,235

Notes:

All values are from the Gas Benefit-Cost Model, 2021-2023 Plan. For 2021, Row (5) is equivalent to the column "Natural Gas" in table G-6. Rows (1)-(4), and rows (6)-

(12) are components of the Column "Other Non-Gas Benefit" in table G-6.

(14) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Program Implementation Expenses."

(15) Some costs are only at the sector level. They are allocated to programs for the purpose of this analysis by multiplying those sector level costs by the ratio of the program's direct programmatic costs to the sector direct programmatic costs. (16) Some costs are only at the portfolio level (EERMC and OER costs). They are allocated to programs for the purpose of this analysis by multiplying those portfolio level costs by the ratio of the program's direct programmatic costs to the all direct programmatic costs.

(17) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Customer Contribution."

(18) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Shareholder Incentive." This category is allocated to programs for the purpose of this analysis by multiplying the sector level shareholder incentive by the ratio of the program's direct programmatic costs, to

	Calculation of cost of supply compared to cost of energy efficiency for Natural Gas Residential EnergyWise Single Family Program- Part 2	rgy efficiency for Na	tural Gas Resident	ial EnergyWise Sing	le Family Program-	Part 2
	Gas Energy	2021	2022	22	20	2023
			Base Case	High Scenario	Base Case	High Scenario
Ref	В	q	v	ъ	a	J
1	Natural Gas Costs	\$5,296,032	\$5,460,964	\$6,280,109	\$7,022,566	\$8,804,751
2	Natural Gas Price Effects	\$78,916	\$81,147	\$93,319	\$103,998	\$130,391
3	Cost of supply (Sum of rows 1-2)	\$5,374,948	\$5,542,111	\$6,373,428	\$7,126,564	\$8,935,142
4	Program Implementation Expenses (Direct)	\$10,063,228	\$10,005,776	\$11,506,642	\$13,398,137	\$16,798,312
и	Program Implementation Expenses (Distributed from					
n	sector level)	\$159,293	\$177,349	\$204,640	\$217,712	\$274,094
u	Program Implementation Expenses (OER and EERMC					
Þ	Distributed from portfolio level)	\$181,807	\$212,640	\$244,911	\$282,646	\$355,089
7	Customer Contribution	\$816,496	\$903,058	\$1,038,516	\$1,239,299	\$1,553,808
80	Shareholder Incentive (Distributed from sector level)	\$366,136	\$347,917	\$349,092	\$368,567	\$370,095
6	Cost of energy efficiency (Sum of rows 4-8)	\$11,586,960	\$11,646,740	\$13,343,800	\$15,506,360	\$19,351,399
10	Difference (Row 3 - Row 9)	-\$6,212,012	-\$6,104,629	-\$6,970,372	-\$8,379,796	-\$10,416,258

Notes:

All values are from the Gas Benefit-Cost Model, 2021-2023 Plan. For 2021, Row (5) is equivalent to the column "Natural Gas" in table G-6. Rows (1)-(4), and rows (6)-

(12) are components of the Column "Other Non-Gas Benefit" in table G-6.

(4) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Program Implementation Expenses."

(5) Some costs are only at the sector level. They are allocated to programs for the purpose of this analysis by multiplying those sector level costs by the ratio of the program's direct programmatic costs to the sector direct programmatic costs. (6) Some costs are only at the portfolio level (EERMC and OER costs). They are allocated to programs for the purpose of this analysis by multiplying those portfolio level costs by the ratio of the program's direct programmatic costs to the all direct programmatic costs. (7) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Customer Contribution."

(8) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Shareholder Incentive." This category is allocated to programs for the purpose of this analysis by multiplying the sector level shareholder incentive by the ratio of the program's direct programmatic costs, to

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5076

ergy efficiency for Natural Gas Residential EnergyWise Single Family Program-Attachment PUC 1-22-3

	Calculation of cost of supply compared to cost of energy efficiency for Natural Gas Residential EnergyWise Single Family Program- Part 3	rgy efficiency for Na	tural Gas Resident	tial EnergyWise Sing	le Family Program- I	Part 3
	Gas Energy	2021	20	2022	2023	23
			Base Case	High Scenario	Base Case	High Scenario
Ref	С	q	U	ъ	a	ţ
1	Natural Gas Costs	\$5,296,032	\$5,460,964	\$6,280,109	\$7,022,566	\$8,804,751
2	Cost of supply (Row 1)	\$5,296,032	\$5,460,964	\$6,280,109	\$7,022,566	\$8,804,751
က	Program Implementation Expenses (Direct)	\$10,063,228	\$10,005,776	\$11,506,642	\$13,398,137	\$16,798,312
,	Program Implementation Expenses (Distributed from					
t	sector level)	\$159,293	\$177,349	\$204,640	\$217,712	\$274,094
u	Program Implementation Expenses (OER and EERMC					
n	Distributed from portfolio level)	\$181,807	\$212,640	\$244,911	\$282,646	\$355,089
9	Customer Contribution	\$816,496	\$903,058	\$1,038,516	\$1,239,299	\$1,553,808
7	Shareholder Incentive (Distributed from sector level)	\$366,136	\$347,917	\$349,092	\$368,567	\$370,095
8	Cost of energy efficiency (Sum of rows 3-7)	\$11,586,960	\$11,646,740	\$13,343,800	\$15,506,360	\$19,351,399
6	Difference (Row 2 - Row 8)	-\$6,290,928	-\$6,185,776	-\$7,063,692	-\$8,483,794	-\$10,546,649

Noto:

All values are from the Gas Benefit-Cost Model, 2021-2023 Plan. For 2021, Row (5) is equivalent to the column "Natural Gas" in table G-6. Rows (1)-(4), and rows (6)-

(12) are components of the Column "Other Non-Gas Benefit" in table G-6.

(3) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Program Implementation Expenses."

(4) Some costs are only at the sector level. They are allocated to programs for the purpose of this analysis by multiplying those sector level costs by the ratio of the program's direct programmatic costs to the sector direct programmatic costs. (5) Some costs are only at the portfolio level (EERMC and OER costs). They are allocated to programs for the purpose of this analysis by multiplying those portfolio level costs by the ratio of the program's direct programmatic costs to the all direct programmatic costs.

(6) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Customer Contribution."

(7) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Shareholder Incentive." This category is allocated to programs for the purpose of this analysis by multiplying the sector level shareholder incentive by the ratio of the program's direct programmatic costs, to

The Narragansett Electric Company RIPUC Docket No. 5076 Attachment PUC 1-22-4 d/b/a National Grid

Calculati						
	Gas Energy	2021	2022	2	20	2023
			Base Case	High Scenario	Base Case	High Scenario
Ref	В	q	J	Р	ə	ţ
1	Electric Energy Costs	\$14,359	\$14,268	\$16,408	\$14,261	\$17,881
2	Electric Generation Costs	\$12,008	\$12,668	\$14,568	\$13,349	\$16,736
ю	Electric Transmission Capacity Costs	\$13,992	\$13,748	\$15,810	\$13,504	\$16,930
4	Electric Distribution Capacity Cost	\$12,151	\$11,939	\$13,730	\$11,727	\$14,703
ß	Natural Gas Costs	\$1,424,032	\$1,431,054	\$1,645,712	\$1,439,137	\$1,804,361
9	Fuel Costs	0\$	0\$	0\$	0\$	0\$
7	Income Eligible Rate Discount	0\$	0\$	0\$	0\$	0\$
8	Arrearages	0\$	0\$	0\$	0\$	0\$
6	Price Effects	\$32,515	\$32,717	\$37,624	\$32,919	\$41,273
10	Non-embedded Greenhouse Gas Reduction Costs	\$606,994	\$608,151	\$699,373	908'609\$	\$763,936
11	Non-embedded Nitrous Oxide (NOx Costs)	\$82,501	\$82,672	\$95,073	\$82,843	\$103,867
12	Reliability Costs	687\$	\$745	\$857	\$750	\$941
13	Cost of supply (Sum of rows 1-12)	\$2,199,291	\$2,207,961	\$2,539,155	\$2,217,797	\$2,780,628
14	Program Implementation Expenses (Direct)	\$1,491,590	\$1,486,966	\$1,710,011	\$1,482,315	\$1,858,497
7	Program Implementation Expenses (Distributed from					
Ç	sector level)	\$23,611	\$26,356	\$30,412	\$24,087	\$30,325
16	Program Implementation Expenses (OER and EERMC					
97	Distributed from portfolio level)	\$26,948	\$31,601	\$36,396	\$31,271	\$39,286
17	Customer Contribution	\$344,000	\$344,000	\$395,600	\$344,000	\$431,300
18	Shareholder Incentive (Distributed from sector level)	\$54,269	\$51,704	\$51,879	\$40,777	\$40,946
19	Cost of energy efficiency (Sum of rows 14-18)	\$1,940,418	\$1,940,627	\$2,224,298	\$1,922,449	\$2,400,353
20	Difference (Row 13 - Row 19)	\$258,873	\$267,334	\$314,857	\$295,347	\$380,275

All values are from the Gas Benefit-Cost Model, 2021-2023 Plan. For 2021, Row (5) is equivalent to the column "Natural Gas" in table G-6.

(14) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Program Implementation Expenses." Rows (1)-(4), and rows (6)-(12) are components of the Column "Other Non-Gas Benefit" in table G-6.

(15) Some costs are only at the sector level. They are allocated to programs for the purpose of this analysis by multiplying those sector

evel costs by the ratio of the program's direct programmatic costs to the sector direct programmatic costs.

(16) Some costs are only at the portfolio level (EERMC and OER costs). They are allocated to programs for the purpose of this analysis by multiplying those portfolio level costs by the ratio of the program's direct programmatic costs to the all direct programmatic costs.

(17) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Customer Contribution."

purpose of this analysis by multiplying the sector level shareholder incentive by the ratio of the program's direct programmatic costs to the (18) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Shareholder Incentive." This category is allocated to programs for the sector direct programmatic costs.

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	Gas Energy	2021	7077	7	2023	53
			Base Case	High Scenario	Base Case	High Scenario
Ref	В	q	J	ъ	a	÷
1	Natural Gas Costs	\$1,424,032	\$1,431,054	\$1,645,712 \$1,439,137	\$1,439,137	\$1,804,361
7	Natural Gas Price Effects	\$27,464	\$27,594	\$31,733	\$27,725	\$34,761
3	Cost of supply (Sum of rows 1-2)	\$1,451,495	\$1,458,648	\$1,677,445	\$1,466,862	\$1,839,122
4	Program Implementation Expenses (Direct)	\$1,491,590	\$1,486,966	\$1,710,011	\$1,482,315	\$1,858,497
L	Program Implementation Expenses (Distributed from					
n	sector level)	\$23,611	\$26,356	\$30,412	\$24,087	\$30,325
y	Program Implementation Expenses (OER and EERMC					
0	Distributed from portfolio level)	\$26,948	\$31,601	\$36,396	\$31,271	\$39,286
7	Customer Contribution	\$344,000	\$344,000	\$395,600	\$344,000	\$431,300
∞	Shareholder Incentive (Distributed from sector level)	\$54,269	\$51,704	\$51,879	\$40,777	\$40,946
6	Cost of energy efficiency (Sum of rows 4-8)	\$1,940,418	\$1,940,627	\$2,224,298	\$1,922,449	\$2,400,353
10	Difference (Row 3 - Row 9)	-\$488,922	-\$481,979	-\$546,852	-\$455,587	-\$561,231

Notes:

All values are from the Gas Benefit-Cost Model, 2021-2023 Plan. For 2021, Row (5) is equivalent to the column "Natural Gas" in table G-6.

Rows (1)-(4), and rows (6)-(12) are components of the Column "Other Non-Gas Benefit" in table G-6.

(5) Some costs are only at the sector level. They are allocated to programs for the purpose of this analysis by multiplying those sector level (4) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Program Implementation Expenses." costs by the ratio of the program's direct programmatic costs to the sector direct programmatic costs. (6) Some costs are only at the portfolio level (EERMC and OER costs). They are allocated to programs for the purpose of this analysis by multiplying those portfolio level costs by the ratio of the program's direct programmatic costs to the all direct programmatic costs.

(7) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Customer Contribution."

purpose of this analysis by multiplying the sector level shareholder incentive by the ratio of the program's direct programmatic costs to the (8) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Shareholder Incentive." This category is allocated to programs for the sector direct programmatic costs.

Calculation of cost of supply compared to cost of energy efficiency for Natural Gas Residential EnergyWise Multi Family Program- Part 3

	Gas Energy	2021	2022	2	20	2023
			Base Case	High Scenario	Base Case	High Scenario
Ref	В	q	v	ъ	e	f
1	Natural Gas Costs	\$1,424,032	\$1,431,054	\$1,645,712	\$1,439,137	\$1,804,361
2	Cost of supply (Row 1)	\$1,424,032	\$1,431,054	\$1,645,712	\$1,439,137	\$1,439,137 \$1,804,361
3	Program Implementation Expenses (Direct)	\$1,491,590	\$1,486,966	\$1,486,966 \$1,710,011 \$1,482,315 \$1,858,497	\$1,482,315	\$1,858,497
,	Program Implementation Expenses (Distributed from					
+	sector level)	\$23,611	\$26,356	\$30,412	\$24,087	\$30,325
U	Program Implementation Expenses (OER and EERMC					
n	Distributed from portfolio level)	\$26,948	\$31,601	\$36,396	\$31,271	\$39,286
9	Customer Contribution	\$344,000	\$344,000	\$395,600	\$344,000	\$431,300
7	Shareholder Incentive (Distributed from sector level)	\$54,269	\$51,704	\$51,879	\$40,777	\$40,946
8	Cost of energy efficiency (Sum of rows 3-7)	\$1,940,418	\$1,940,627	\$2,224,298		\$1,922,449 \$2,400,353
6	Difference (Row 2 - Row 8)	-\$516,386	-\$509,573	-\$509,573 -\$578,586	-\$483,312	-\$595,992

Notes:

All values are from the Gas Benefit-Cost Model, 2021-2023 Plan. For 2021, Row (5) is equivalent to the column "Natural Gas" in table G-6.

Rows (1)-(4), and rows (6)-(12) are components of the Column "Other Non-Gas Benefit" in table G-6. (3) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Program Implementation Expenses."

(4) Some costs are only at the sector level. They are allocated to programs for the purpose of this analysis by multiplying those sector level costs by the ratio of the program's direct programmatic costs to the sector direct programmatic costs. (5) Some costs are only at the portfolio level (EERMC and OER costs). They are allocated to programs for the purpose of this analysis by multiplying those portfolio level costs by the ratio of the program's direct programmatic costs to the all direct programmatic costs.

(6) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Customer Contribution."

purpose of this analysis by multiplying the sector level shareholder incentive by the ratio of the program's direct programmatic costs to the (7) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Shareholder Incentive." This category is allocated to programs for the sector direct programmatic costs.

The Narragansett Electric Company RIPUC Docket No. 5076 Attachment PUC 1-22-5 d/b/a National Grid

Part 1 by efficiency for Natural Gas Residential Home Energy Reports

	Gas Energy	2021	2022	2	07	2023
			Base Case	High Scenario	Base Case	High Scenario
Ref	В	q	v	Р	Ð	.
1	Electric Energy Costs	0\$	0\$	0\$	0\$	0\$
2	Electric Generation Costs	0\$	0\$	0\$	0\$	0\$
33	Electric Transmission Capacity Costs	0\$	0\$	0\$	0\$	0\$
4	Electric Distribution Capacity Cost	0\$	0\$	0\$	0\$	0\$
2	Natural Gas Costs	\$859,710	\$851,976	\$851,976	\$852,486	\$852,486
9	Fuel Costs	0\$	0\$	0\$	0\$	0\$
7	Income Eligible Rate Discount	0\$	0\$	0\$	0\$	0\$
8	Arrearages	0\$	0\$	0\$	0\$	0\$
6	Price Effects	\$42,220	\$42,220	\$42,220	\$42,220	\$42,220
10	Non-embedded Greenhouse Gas Reduction Costs	\$391,231	\$391,231	\$391,231	\$391,231	\$391,231
11	Non-embedded Nitrous Oxide (NOx Costs)	\$54,065	\$54,065	\$54,065	\$54,065	\$54,065
12	Reliability Costs	0\$	0\$	0\$	0\$	0\$
13	Cost of supply (Sum of rows 1-12)	\$1,347,225	\$1,339,491	\$1,339,491	\$1,340,001	\$1,340,001
14	Program Implementation Expenses (Direct)	\$450,864	\$441,290	\$441,290	\$441,290	\$441,290
16	Program Implementation Expenses (Distributed from					
CT	sector level)	\$7,137	\$7,822	\$7,848	\$7,171	\$7,200
16	Program Implementation Expenses (OER and EERMC					
1	Distributed from portfolio level)	\$8,146	\$9,378	\$9,393	\$9,309	\$9,328
17	Customer Contribution	\$0	\$0	\$0	\$0	\$0
18	Shareholder Incentive (Distributed from sector level)	\$16,404	\$15,344	\$13,388	\$12,139	\$9,722
19	Cost of energy efficiency (Sum of rows 14-18)	\$482,550	\$473,835	\$471,919	\$469,910	\$467,541
70	Difference (Row 13 - Row 19)	\$864,675	\$865,657	\$867,572	\$870,091	\$872,460

All values are from the Gas Benefit-Cost Model, 2021-2023 Plan. For 2021, Row (5) is equivalent to the column "Natural Gas" in table G-6.

(14) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Program Implementation Expenses." Rows (1)-(4), and rows (6)-(12) are components of the Column "Other Non-Gas Benefit" in table G-6.

(15) Some costs are only at the sector level. They are allocated to programs for the purpose of this analysis by multiplying those sector level costs by the ratio of the program's direct programmatic costs to the sector direct programmatic costs.

(16) Some costs are only at the portfolio level (EERMC and OER costs). They are allocated to programs for the purpose of this analysis by

multiplying those portfolio level costs by the ratio of the program's direct programmatic costs to the all direct programmatic costs.

purpose of this analysis by multiplying the sector level shareholder incentive by the ratio of the program's direct programmatic costs to the (18) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Shareholder Incentive." This category is allocated to programs for the (17) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Customer Contribution." sector direct programmatic costs.

The Narragansett Electric Company RIPUC Docket No. 5076 Attachment PUC 1-22-5 d/b/a National Grid

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	Gas Energy	2021	2022	2	2023	13
			Base Case	High Scenario	Base Case	High Scenario
Ref	В	q	J	Р	a	f
1	Natural Gas Costs	\$859,710	\$851,976	\$851,976	\$852,486	\$852,486
2	Natural Gas Price Effects	\$42,220	\$42,220	\$42,220	\$42,220	\$42,220
3	Cost of supply (Sum of rows 1-2)	\$901,930	\$894,196	\$894,196	\$894,705	\$894,705
4	Program Implementation Expenses (Direct)	\$450,864	\$441,290	\$441,290	\$441,290	\$441,290
L	Program Implementation Expenses (Distributed from					
n	sector level)	\$7,137	\$7,822	\$7,848	\$7,171	\$7,200
u	Program Implementation Expenses (OER and EERMC					
Þ	Distributed from portfolio level)	\$8,146	\$9,378	\$9,393	\$9,309	\$9,328
7	Customer Contribution	0\$	0\$	0\$	0\$	\$0
8	Shareholder Incentive (Distributed from sector level)	\$16,404	\$15,344	\$13,388	\$12,139	\$9,722
6	Cost of energy efficiency (Sum of rows 4-8)	\$482,550	\$473,835	\$471,919	\$469,910	\$467,541
10	Difference (Row 3 - Row 9)	\$419,380	\$420,361	\$422,277	\$424,796	\$427,164

All values are from the Gas Benefit-Cost Model, 2021-2023 Plan. For 2021, Row (5) is equivalent to the column "Natural Gas" in table G-6.

Rows (1)-(4), and rows (6)-(12) are components of the Column "Other Non-Gas Benefit" in table G-6.

(4) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Program Implementation Expenses."

(5) Some costs are only at the sector level. They are allocated to programs for the purpose of this analysis by multiplying those sector level costs by the ratio of the program's direct programmatic costs to the sector direct programmatic costs. (6) Some costs are only at the portfolio level (EERMC and OER costs). They are allocated to programs for the purpose of this analysis by

multiplying those portfolio level costs by the ratio of the program's direct programmatic costs to the all direct programmatic costs.

(7) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Customer Contribution."

purpose of this analysis by multiplying the sector level shareholder incentive by the ratio of the program's direct programmatic costs to the (8) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Shareholder Incentive." This category is allocated to programs for the sector direct programmatic costs.

Calcula	Calculation of cost of supply compared to cost of energy efficiency for Natural Gas Residential Home Energy Reports Program-Part 3	cy for Natural G	as Residential	Home Energy	Reports Progr	am- Part 3
	Gas Energy	2021	2022	2	2023	23
			Base Case	High	Base Case	High
				Scenario		Scenario
Ref	В	q	U	р	Ð	f
1	Natural Gas Costs	\$859,710	\$851,976	\$851,976	\$852,486	\$852,486
2	Cost of supply (Row 1)	\$859,710	\$851,976	\$851,976	\$852,486	\$852,486
3	Program Implementation Expenses (Direct)	\$450,864	\$441,290	\$441,290	\$441,290	\$441,290
•	Program Implementation Expenses (Distributed from					
4	sector level)	\$7,137	\$7,822	\$7,848	\$7,171	\$7,200
L	Program Implementation Expenses (OER and EERMC					
n	Distributed from portfolio level)	\$8,146	\$9,378	\$9,393	\$9,309	\$9,328
9	Customer Contribution	0\$	\$0	\$0	\$0	\$0
7	Shareholder Incentive (Distributed from sector level)	\$16,404	\$15,344	\$13,388	\$12,139	\$9,722
8	Cost of energy efficiency (Sum of rows 3-7)	\$482,550	\$473,835	\$471,919	\$469,910	\$467,541
6	Difference (Row 2 - Row 8)	\$377,160	\$378,141	\$380,057	\$382,576	\$384,944

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All values are from the Gas Benefit-Cost Model, 2021-2023 Plan. For 2021, Row (5) is equivalent to the column "Natural Gas" in table G-6.

Rows (1)-(4), and rows (6)-(12) are components of the Column "Other Non-Gas Benefit" in table G-6.

(3) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Program Implementation Expenses."

(4) Some costs are only at the sector level. They are allocated to programs for the purpose of this analysis by multiplying those sector level costs by the ratio of the program's direct programmatic costs to the sector direct programmatic costs.

(5) Some costs are only at the portfolio level (EERMC and OER costs). They are allocated to programs for the purpose of this analysis by multiplying those portfolio level costs by the ratio of the program's direct programmatic costs to the all direct programmatic costs.

(6) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Customer Contribution."

purpose of this analysis by multiplying the sector level shareholder incentive by the ratio of the program's direct programmatic costs to the (7) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Shareholder Incentive." This category is allocated to programs for the sector direct programmatic costs.

The Narragansett Electric Company RIPUC Docket No. 5076 Attachment PUC 1-22-6 d/b/a National Grid

Calculation of cost of supply compared to cost of energy efficiency for Natural Gas Residential New Construction Program- Part 1

	Gas Energy	2021	2022	2	2023	23
			Base Case	High Scenario	Base Case	High Scenario
Ref	в	q	J	ъ	ө	f
1	Electric Energy Costs	0\$	0\$	0\$	0\$	0\$
2	Electric Generation Costs	0\$	0\$	0\$	\$0	0\$
33	Electric Transmission Capacity Costs	0\$	0\$	0\$	0\$	0\$
4	Electric Distribution Capacity Cost	0\$	0\$	0\$	0\$	0\$
2	Natural Gas Costs	\$822,009	\$774,607	\$890,798	\$730,090	\$915,372
9	Fuel Costs	0\$	0\$	0\$	0\$	0\$
7	Income Eligible Rate Discount	0\$	0\$	0\$	0\$	0\$
8	Arrearages	0\$	0\$	0\$	0\$	0\$
6	Price Effects	\$14,576	\$13,958	\$16,051	\$13,203	\$16,554
10	Non-embedded Greenhouse Gas Reduction Costs	\$342,450	\$321,759	\$370,023	\$302,189	\$378,879
11	Non-embedded Nitrous Oxide (NOx Costs)	\$47,323	\$44,464	\$51,134	\$41,760	\$52,358
12	Reliability Costs	0\$	0\$	0\$	0\$	0\$
13	Cost of supply (Sum of rows 1-12)	\$1,226,358	\$1,154,787	\$1,328,006	\$1,087,242	\$1,363,162
14	Program Implementation Expenses (Direct)	\$674,827	\$609,588	\$701,026	\$611,796	\$767,058
16	Program Implementation Expenses (Distributed from					
CT	sector level)	\$10,682	\$10,805	\$12,467	\$9,941	\$12,516
31	Program Implementation Expenses (OER and EERMC					
70	Distributed from portfolio level)	\$12,192	\$12,955	\$14,921	\$12,906	\$16,214
17	Customer Contribution	\$670,944	\$561,983	\$646,281	\$580,347	\$727,628
18	Shareholder Incentive (Distributed from sector level)	\$24,553	\$21,196	\$21,268	\$16,830	\$16,900
19	Cost of energy efficiency (Sum of rows 14-18)	\$1,393,197	\$1,216,527	\$1,395,963	\$1,231,821	\$1,540,315
20	Difference (Row 13 - Row 19)	-\$166,839	-\$61,740	-\$67,958	-\$144,579	-\$177,153

Notes:

All values are from the Gas Benefit-Cost Model, 2021-2023 Plan. For 2021, Row (5) is equivalent to the column "Natural Gas" in table G-6. Rows (1)-(4), and rows (6)-(12) are components of the Column "Other Non-Gas Benefit" in table G-6.

. [14] 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Program Implementation Expenses."

(15) Some costs are only at the sector level. They are allocated to programs for the purpose of this analysis by multiplying those sector evel costs by the ratio of the program's direct programmatic costs to the sector direct programmatic costs. (16) Some costs are only at the porffolio level (EERMC and OER costs). They are allocated to programs for the purpose of this analysis by multiplying those portfolio level costs by the ratio of the program's direct programmatic costs to the all direct programmatic costs.

purpose of this analysis by multiplying the sector level shareholder incentive by the ratio of the program's direct programmatic costs to the 18) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Shareholder Incentive." This category is allocated to programs for the sector direct programmatic costs.

(17) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Customer Contribution."

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5076

Attachment PUC 1-22-6

Calcul	Calculation of cost of supply compared to cost of energy efficiency for Natural Gas Residential New Construction Program- Part 2	ency for Natural	Gas Residentia	I New Constru	ıction Prograr	n- Part 2
	Gas Energy	2021	2022	2	2023	23
			Base Case	High Scenario	Base Case	High
Ref	B	q	J	σ	a	+
1	Natural Gas Costs	\$822,009	\$774,607	\$890,798	\$730,090	\$915,372
2	Natural Gas Price Effects	\$14,576	\$13,958	\$16,051	\$13,203	\$16,554
3	Cost of supply (Sum of rows 1-2)	\$83'98\$	\$788,565	\$906,849	\$743,293	\$931,926
4	Program Implementation Expenses (Direct)	\$674,827	\$89,588	\$701,026	\$611,796	\$767,058
ш	Program Implementation Expenses (Distributed from					
n	sector level)	\$10,682	\$10,805	\$12,467	\$9,941	\$12,516
Ų	Program Implementation Expenses (OER and EERMC					
Þ	Distributed from portfolio level)	\$12,192	\$12,955	\$14,921	\$12,906	\$16,214
7	Customer Contribution	\$670,944	\$561,983	\$646,281	\$580,347	\$727,628
80	Shareholder Incentive (Distributed from sector level)	\$24,553	\$21,196	\$21,268	\$16,830	\$16,900
6	Cost of energy efficiency (Sum of rows 4-8)	\$1,393,197	\$1,216,527	\$1,395,963	\$1,231,821	\$1,540,315
10	Difference (Row 3 - Row 9)	-\$556,613	-\$427,963	-\$489,114	-\$488,528	-\$608,389

Notes:

All values are from the Gas Benefit-Cost Model, 2021-2023 Plan. For 2021, Row (5) is equivalent to the column "Natural Gas" in table G-6. Rows (1)-(4), and rows (6)-(12) are components of the Column "Other Non-Gas Benefit" in table G-6.

(4) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Program Implementation Expenses."

(5) Some costs are only at the sector level. They are allocated to programs for the purpose of this analysis by multiplying those sector level

costs by the ratio of the program's direct programmatic costs to the sector direct programmatic costs.

(6) Some costs are only at the portfolio level (EERMC and OER costs). They are allocated to programs for the purpose of this analysis by multiplying those portfolio level costs by the ratio of the program's direct programmatic costs.

(7) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Customer Contribution."

purpose of this analysis by multiplying the sector level shareholder incentive by the ratio of the program's direct programmatic costs to the (8) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Shareholder Incentive." This category is allocated to programs for the sector direct programmatic costs.

The Narragansett Electric Company RIPUC Docket No. 5076 d/b/a National Grid

Calculation of cost of supply compared to cost of energy efficiency for Natural Gas Residential New Construction Program-Part 3 Attachment PUC 1-22-6

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	Gas Energy	2021	2022	2	2023	23
			Base Case	High	Race Cace	High
			220	Scenario	262	Scenario
Ref	В	q	c	σ	Ð	f
1	Natural Gas Costs	\$822,009	\$774,607	\$890,798	\$730,090	\$915,372
2	Cost of supply (Row 1)	\$822,009	\$774,607	\$890,798	\$730,090	\$915,372
3	Program Implementation Expenses (Direct)	\$674,827	\$609,588	\$701,026	\$611,796	\$767,058
,	Program Implementation Expenses (Distributed from					
t	sector level)	\$10,682	\$10,805	\$12,467	\$9,941	\$12,516
Ц	Program Implementation Expenses (OER and EERMC					
n	Distributed from portfolio level)	\$12,192	\$12,955	\$14,921	\$12,906	\$16,214
9	Customer Contribution	\$670,944	\$561,983	\$646,281	\$580,347	\$727,628
7	Shareholder Incentive (Distributed from sector level)	\$24,553	\$21,196	\$21,268	\$16,830	\$16,900
8	Cost of energy efficiency (Sum of rows 3-7)	\$1,393,197	\$1,216,527	\$1,395,963	\$1,231,821	\$1,540,315
6	Difference (Row 2 - Row 8)	-\$571,189	-\$441,920	-\$505,165	-\$501,731	-\$624,943

Notes:

All values are from the Gas Benefit-Cost Model, 2021-2023 Plan. For 2021, Row (5) is equivalent to the column "Natural Gas" in table G-6.

Rows (1)-(4), and rows (6)-(12) are components of the Column "Other Non-Gas Benefit" in table G-6.

(4) Some costs are only at the sector level. They are allocated to programs for the purpose of this analysis by multiplying those sector level (3) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Program Implementation Expenses."

costs by the ratio of the program's direct programmatic costs to the sector direct programmatic costs.

(5) Some costs are only at the portfolio level (EERMC and OER costs). They are allocated to programs for the purpose of this analysis by multiplying those portfolio level costs by the ratio of the program's direct programmatic costs to the all direct programmatic costs.

(6) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Customer Contribution."

purpose of this analysis by multiplying the sector level shareholder incentive by the ratio of the program's direct programmatic costs to the (7) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Shareholder Incentive." This category is allocated to programs for the

sector direct programmatic costs.

Lookup: Large Commercial New Construction

The Narragansett Electric Company d/b/a National Grid

RIPUC Docket No. 5076 Attachment PUC 1-22-7 Calculation of cost of supply compared to cost of energy efficiency for Natural Gas Commercial New Construction Program-Part 1

	Gas Energy 2021 2022 2023	2021	2022	2	2023	23
			Base Case	High Scenario	Base Case	High Scenario
Ref	В	q	J	σ	ө	Ŧ
1	Electric Energy Costs	\$1,520	\$1,565	\$1,799	\$1,488	\$1,865
2	Electric Generation Costs	0\$	0\$	0\$	0\$	0\$
æ	Electric Transmission Capacity Costs	0\$	0\$	0\$	0\$	0\$
4	Electric Distribution Capacity Cost	0\$	0\$	0\$	0\$	0\$
2	Natural Gas Costs	\$3,542,373	\$4,197,861	\$4,827,541	\$4,915,820	\$6,163,355
9	Fuel Costs	0\$	0\$	0\$	0\$	0\$
7	Income Eligible Rate Discount	0\$	0\$	0\$	0\$	0\$
8	Arrearages	0\$	0\$	0\$	0\$	0\$
6	Price Effects	\$67,554	\$80,475	\$92,546	\$93,857	\$117,676
10	Non-embedded Greenhouse Gas Reduction Costs	\$1,774,930	\$2,091,231	\$2,404,916	\$2,415,295	\$3,028,248
11	Non-embedded Nitrous Oxide (NOx Costs)	\$263,059	\$309,948	\$356,440	\$357,993	\$448,844
12	Reliability Costs	0\$	0\$	0\$	0\$	0\$
13	Cost of supply (Sum of rows 1-12)	\$5,649,435	\$6,681,080	\$7,683,242	\$7,784,452	\$9,759,988
14	Program Implementation Expenses (Direct)	\$2,759,162	\$3,015,867	\$3,468,247	\$3,237,649	\$4,059,299
15	Program Implementation Expenses (Distributed from					
7	sector level)	\$121,317	\$91,962	\$105,756	\$91,148	\$114,280
31	Program Implementation Expenses (OER and EERMC					
0.7	Distributed from portfolio level)	\$49,848	\$64,092	\$73,819	\$68,301	\$85,807
17	Customer Contribution	-\$166,358	-\$183,960	-\$211,554	-\$205,669	-\$257,864
18	Shareholder Incentive (Distributed from sector level)	\$203,625	\$206,419	\$206,419	\$191,575	\$191,575
19	Cost of energy efficiency (Sum of rows 14-18)	\$2,967,595	\$3,194,380	\$3,642,687	\$3,383,005	\$4,193,098
20	Difference (Row 13 - Row 19)	\$2,681,841	\$3,486,700	\$4,040,555	\$4,401,447	\$5,566,890

Notes:

All values are from the Gas Benefit-Cost Model, 2021-2023 Plan. For 2021, Row (5) is equivalent to the column "Natural Gas" in table G-6.

Rows (1)-(4), and rows (6)-(12) are components of the Column "Other Non-Gas Benefit" in table G-6.

. 14) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Program Implementation Expenses."

15) Some costs are only at the sector level. They are allocated to programs for the purpose of this analysis by multiplying those sector evel costs by the ratio of the program's direct programmatic costs to the sector direct programmatic costs. (16) Some costs are only at the porffolio level (EERMC and OER costs). They are allocated to programs for the purpose of this analysis by multiplying those portfolio level costs by the ratio of the program's direct programmatic costs to the all direct programmatic costs.

purpose of this analysis by multiplying the sector level shareholder incentive by the ratio of the program's direct programmatic costs to the 18) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Shareholder Incentive." This category is allocated to programs for the sector direct programmatic costs.

(17) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Customer Contribution."

The Narragansett Electric Company RIPUC Docket No. 5076 d/b/a National Grid

Calculation of cost of supply compared to cost of energy efficiency for Natural Gas Commercial New Construction Program-Part 2 Attachment PUC 1-22-7

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	Gas Energy	2021	2022	2	2023	23
			Base Case	High Scenario	Base Case	High Scenario
Ref	В	q	v	ъ	a	Ŧ
1	Natural Gas Costs	\$3,542,373	\$4,197,861	\$4,827,541	\$4,915,820	\$6,163,355
2	Natural Gas Price Effects	\$67,011	\$79,919	\$91,907	\$93,335	\$117,022
3	Cost of supply (Sum of rows 1-2)	\$3,609,384	\$4,277,781	\$4,919,448	\$5,009,155	\$6,280,377
4	Program Implementation Expenses (Direct)	\$2,759,162	\$3,015,867	\$3,468,247	\$3,237,649	\$4,059,299
L	Program Implementation Expenses (Distributed from					
n	sector level)	\$121,317	\$91,962	\$105,756	\$91,148	\$114,280
Ų	Program Implementation Expenses (OER and EERMC					
Þ	Distributed from portfolio level)	\$49,848	\$64,092	\$73,819	\$68,301	\$85,807
7	Customer Contribution	-\$166,358	-\$183,960	-\$211,554	-\$205,669	-\$257,864
∞	Shareholder Incentive (Distributed from sector level)	\$203,625	\$206,419	\$206,419	\$191,575	\$191,575
6	Cost of energy efficiency (Sum of rows 4-8)	\$2,967,595	\$3,194,380	\$3,642,687	\$3,383,005	\$4,193,098
10	Difference (Row 3 - Row 9)	\$641,789	\$1,083,401	\$1,276,761	\$1,626,150	\$2,087,279

All values are from the Gas Benefit-Cost Model, 2021-2023 Plan. For 2021, Row (5) is equivalent to the column "Natural Gas" in table G-6. Rows (1)-(4), and rows (6)-(12) are components of the Column "Other Non-Gas Benefit" in table G-6.

(4) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Program Implementation Expenses."

(5) Some costs are only at the sector level. They are allocated to programs for the purpose of this analysis by multiplying those sector level

costs by the ratio of the program's direct programmatic costs to the sector direct programmatic costs.

(6) Some costs are only at the portfolio level (EERMC and OER costs). They are allocated to programs for the purpose of this analysis by multiplying those portfolio level costs by the ratio of the program's direct programmatic costs.

(7) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Customer Contribution."

purpose of this analysis by multiplying the sector level shareholder incentive by the ratio of the program's direct programmatic costs to the (8) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Shareholder Incentive." This category is allocated to programs for the

sector direct programmatic costs.

The Narragansett Electric Company RIPUC Docket No. 5076 d/b/a National Grid

Calculation of cost of supply compared to cost of energy efficiency for Natural Gas Commercial New Construction Program- Part 3 Attachment PUC 1-22-7

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	Gas Energy	2021	2022	2	2023	13
			Base Case	High Scenario	Base Case	High Scenario
Ref	ъ	q	v	σ	a	f
1	Natural Gas Costs	\$3,542,373	\$4,197,861	\$4,197,861 \$4,827,541	\$4,915,820 \$6,163,355	\$6,163,355
2	Cost of supply (Row 1)	\$3,542,373	\$4,197,861	\$4,827,541	\$4,915,820	\$6,163,355
3	Program Implementation Expenses (Direct)	\$2,759,162	\$3,015,867	\$3,468,247	\$3,237,649	\$4,059,299
,	Program Implementation Expenses (Distributed from					
1	sector level)	\$121,317	\$91,962	\$105,756	\$91,148	\$114,280
L	Program Implementation Expenses (OER and EERMC					
n	Distributed from portfolio level)	\$49,848	\$64,092	\$73,819	\$68,301	\$85,807
9	Customer Contribution	-\$166,358	-\$183,960	-\$211,554	-\$205,669	-\$257,864
7	Shareholder Incentive (Distributed from sector level)	\$203,625	\$206,419	\$206,419	\$191,575	\$191,575
8	Cost of energy efficiency (Sum of rows 3-7)	\$2,967,595	\$3,194,380	\$3,194,380 \$3,642,687	\$3,383,005	\$4,193,098
6	Difference (Row 2 - Row 8)	\$574,778		\$1,003,482 \$1,184,854 \$1,532,815 \$1,970,257	\$1,532,815	\$1,970,257

Notes:

All values are from the Gas Benefit-Cost Model, 2021-2023 Plan. For 2021, Row (5) is equivalent to the column "Natural Gas" in table G-6. Rows (1)-(4), and rows (6)-(12) are components of the Column "Other Non-Gas Benefit" in table G-6.

(3) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Program Implementation Expenses."

(4) Some costs are only at the sector level. They are allocated to programs for the purpose of this analysis by multiplying those sector level

costs by the ratio of the program's direct programmatic costs to the sector direct programmatic costs.

(5) Some costs are only at the portfolio level (EERMC and OER costs). They are allocated to programs for the purpose of this analysis by multiplying those portfolio level costs by the ratio of the program's direct programmatic costs.

(6) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Customer Contribution."

(7) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Shareholder Incentive." This category is allocated to programs for the

purpose of this analysis by multiplying the sector level shareholder incentive by the ratio of the program's direct programmatic costs to the sector direct programmatic costs.

The Narragansett Electric Company RIPUC Docket No. 5076 Attachment PUC 1-22-8 d/b/a National Grid

Calculation of cost of supply compared to cost of energy efficiency for Natural Gas Large Commercial Retrofit Program- Part 1

	Gas Energy	2021	2022	2	07	2023
			Base Case	High	Base Case	High
				Scenario		Scenario
Ref	ro	q	v	σ	a	-
1	Electric Energy Costs	0\$	0\$	0\$	0\$	0\$
2	Electric Generation Costs	0\$	0\$	0\$	0\$	0\$
3	Electric Transmission Capacity Costs	0\$	0\$	0\$	0\$	0\$
4	Electric Distribution Capacity Cost	0\$	0\$	0\$	0\$	0\$
2	Natural Gas Costs	\$12,449,163	\$13,418,414	\$13,418,414 \$15,431,176	\$17,957,224	\$17,957,224 \$22,514,403
9	Fuel Costs	0\$	0\$	0\$	0\$	0\$
7	Income Eligible Rate Discount	0\$	0\$	0\$	0\$	0\$
8	Arrearages	0\$	0\$	0\$	0\$	0\$
6	Price Effects	\$510,782	\$528,888	\$608,221	\$60'029\$	\$840,156
10	Non-embedded Greenhouse Gas Reduction Costs	\$5,996,827	\$6,417,135	\$7,379,706		\$8,534,943 \$10,700,938
11	Non-embedded Nitrous Oxide (NOx Costs)	\$888,977	\$951,284	\$1,093,976	\$1,265,230	\$1,586,320
12	Reliability Costs	0\$	0\$	0\$	0\$	0\$
13	Cost of supply (Sum of rows 1-12)	\$19,845,749	\$21,315,721	\$24,513,079	\$21,315,721 \$24,513,079 \$28,427,495 \$35,641,817	\$35,641,817
14	Program Implementation Expenses (Direct)	\$5,169,116	\$5,263,010	\$6,052,461	\$6,281,907	\$7,876,127
1	Program Implementation Expenses (Distributed from					
CT	sector level)	\$227,279	\$160,483	\$184,555	\$176,852	\$221,734
16	Program Implementation Expenses (OER and EERMC					
70	Distributed from portfolio level)	\$93,388	\$111,848	\$128,822	\$132,522	\$166,489
17	Customer Contribution	\$3,387,006	\$3,383,908	\$3,891,495	\$4,495,069	\$5,635,826
18	Shareholder Incentive (Distributed from sector level)	\$381,478	\$360,223	\$360,223	\$371,708	\$371,708
19	Cost of energy efficiency (Sum of rows 14-18)	\$9,258,267	\$9,279,472	\$10,617,557	\$9,279,472 \$10,617,557 \$11,458,057 \$14,271,883	\$14,271,883
20	Difference (Row 13 - Row 19)	\$10,587,482	\$12,036,249	\$13,895,523	\$12,036,249 \$13,895,523 \$16,969,438 \$21,369,934	\$21,369,934

Notes:

All values are from the Gas Benefit-Cost Model, 2021-2023 Plan. For 2021, Row (5) is equivalent to the column "Natural Gas" in table G-6. Rows (1)-(4), and rows (6)-(12) are components of the Column "Other Non-Gas Benefit" in table G-6.

(14) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Program Implementation Expenses."

(15) Some costs are only at the sector level. They are allocated to programs for the purpose of this analysis by multiplying those sector evel costs by the ratio of the program's direct programmatic costs to the sector direct programmatic costs. (16) Some costs are only at the porffolio level (EERMC and OER costs). They are allocated to programs for the purpose of this analysis by multiplying those portfolio level costs by the ratio of the program's direct programmatic costs to the all direct programmatic costs.

purpose of this analysis by multiplying the sector level shareholder incentive by the ratio of the program's direct programmatic costs to the 18) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Shareholder Incentive." This category is allocated to programs for the (17) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Customer Contribution."

sector direct programmatic costs.

The Narragansett Electric Company RIPUC Docket No. 5076 d/b/a National Grid

Attachment PUC 1-22-8

Calc	Calculation of cost of supply compared to cost of energy efficiency for Natural Gas Large Commercial Retrofit Program- Part 2	ciency for Natura	I Gas Large Co	mmercial Retr	rofit Program	Part 2
	Gas Energy	2021	2022	2	2023	23
			Base Case	High Scenario	Base Case	High Scenario
Ref	В	q	J	Ъ	ə	-
1	Natural Gas Costs	\$12,449,163	\$13,418,414	\$13,418,414 \$15,431,176 \$17,957,224 \$22,514,403	\$17,957,224	\$22,514,403
2	Natural Gas Price Effects	\$510,782	\$528,888		\$608,221 \$670,098	\$840,156
ဧ	Cost of supply (Sum of rows 1-2)	\$12,959,945	\$13,947,302	\$13,947,302 \$16,039,397 \$18,627,322 \$23,354,559	\$18,627,322	\$23,354,559
4	Program Implementation Expenses (Direct)	\$5,169,116	\$5,263,010	\$5,263,010 \$6,052,461 \$6,281,907	\$6,281,907	\$7,876,127
L	Program Implementation Expenses (Distributed from					
n	sector level)	\$227,279	\$160,483	\$184,555	\$176,852	\$221,734
Ų	Program Implementation Expenses (OER and EERMC					
•	Distributed from portfolio level)	\$93,388	\$111,848	\$128,822	\$132,522	\$166,489
7	Customer Contribution	\$3,387,006	\$3,383,908	\$3,891,495	\$4,495,069	\$5,635,826
8	Shareholder Incentive (Distributed from sector level)	\$381,478	\$360,223	\$360,223	\$371,708	\$371,708
6	Cost of energy efficiency (Sum of rows 4-8)	\$9,258,267	\$9,279,472	\$9,279,472 \$10,617,557 \$11,458,057 \$14,271,883	\$11,458,057	\$14,271,883
10	Difference (Row 3 - Row 9)	\$3,701,678	\$4,667,830	\$4,667,830 \$5,421,840 \$7,169,265 \$9,082,676	\$7,169,265	\$9,082,676
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Notes:

All values are from the Gas Benefit-Cost Model, 2021-2023 Plan. For 2021, Row (5) is equivalent to the column "Natural Gas" in table G-6. Rows (1)-(4), and rows (6)-(12) are components of the Column "Other Non-Gas Benefit" in table G-6.

(4) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Program Implementation Expenses."

(5) Some costs are only at the sector level. They are allocated to programs for the purpose of this analysis by multiplying those sector level costs by the ratio of the program's direct programmatic costs to the sector direct programmatic costs.

(6) Some costs are only at the portfolio level (EERMC and OER costs). They are allocated to programs for the purpose of this analysis by multiplying those portfolio level costs by the ratio of the program's direct programmatic costs.

(7) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Customer Contribution."

purpose of this analysis by multiplying the sector level shareholder incentive by the ratio of the program's direct programmatic costs to the (8) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Shareholder Incentive." This category is allocated to programs for the

sector direct programmatic costs.

The Narragansett Electric Company RIPUC Docket No. 5076 d/b/a National Grid

Attachment PUC 1-22-8

Calc	Calculation of cost of supply compared to cost of energy efficiency for Natural Gas Large Commercial Retrofit Program- Part 3	iency for Natura	al Gas Large Co	mmercial Retr	ofit Program	Part 3
	Gas Energy	2021	2022	2	2023	23
			Base Case	High Scenario	Base Case	High Scenario
Ref	В	q	J	ъ	Ð	Ŧ
1	Natural Gas Costs	\$12,449,163	\$12,449,163 \$13,418,414 \$15,431,176 \$17,957,224 \$22,514,403	\$15,431,176	\$17,957,224	\$22,514,403
7	Cost of supply (Row 1)	\$12,449,163		\$13,418,414 \$15,431,176 \$17,957,224 \$22,514,403	\$17,957,224	\$22,514,403
3	Program Implementation Expenses (Direct)	\$5,169,116	\$5,263,010	\$5,263,010 \$6,052,461 \$6,281,907 \$7,876,127	\$6,281,907	\$7,876,127
,	Program Implementation Expenses (Distributed from					
†	sector level)	\$227,279	\$160,483	\$184,555	\$176,852	\$221,734
2	Program Implementation Expenses (OER and EERMC					
n	Distributed from portfolio level)	\$93,388	\$111,848	\$111,848 \$128,822	\$132,522	\$166,489
9	Customer Contribution	\$3,387,006	\$3,383,908	\$3,383,908 \$3,891,495	\$4,495,069	\$5,635,826
2	Shareholder Incentive (Distributed from sector level)	\$381,478	\$360,223	\$360,223	\$371,708	\$371,708
8	Cost of energy efficiency (Sum of rows 3-7)	\$9,258,267	\$9,279,472	\$9,279,472 \$10,617,557 \$11,458,057 \$14,271,883	\$11,458,057	\$14,271,883
6	Difference (Row 2 - Row 8)	\$3,190,896	\$4,138,941	\$4,138,941 \$4,813,619 \$6,499,167 \$8,242,520	\$6,499,167	\$8,242,520

Notes:

All values are from the Gas Benefit-Cost Model, 2021-2023 Plan. For 2021, Row (5) is equivalent to the column "Natural Gas" in table G-6. Rows (1)-(4), and rows (6)-(12) are components of the Column "Other Non-Gas Benefit" in table G-6.

(3) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Program Implementation Expenses."

(4) Some costs are only at the sector level. They are allocated to programs for the purpose of this analysis by multiplying those sector level

costs by the ratio of the program's direct programmatic costs to the sector direct programmatic costs.

(5) Some costs are only at the portfolio level (EERMC and OER costs). They are allocated to programs for the purpose of this analysis by multiplying those portfolio level costs by the ratio of the program's direct programmatic costs to the all direct programmatic costs.

(6) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Customer Contribution."

purpose of this analysis by multiplying the sector level shareholder incentive by the ratio of the program's direct programmatic costs to the (7) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Shareholder Incentive." This category is allocated to programs for the sector direct programmatic costs.

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	Gas Energy	2021	2022	2	20	2023
			Base Case	High Scenario	Base Case	High Scenario
Ref	е	q	J	Р	Э	Į
1	Electric Energy Costs	0\$	0\$	0\$	0\$	\$0
7	Electric Generation Costs	0\$	0\$	0\$	0\$	0\$
8	Electric Transmission Capacity Costs	0\$	0\$	0\$	0\$	
7	Electric Distribution Capacity Cost	0\$	0\$	0\$	\$0	\$0
5	Natural Gas Costs	\$403,922	\$612,393	\$704,252	\$898,971	\$1,127,112
9	Fuel Costs	0\$	0\$	0\$	0\$	0\$
2	Income Eligible Rate Discount	0\$	0\$	0\$	0\$	\$0
8	Arrearages	0\$	0\$	0\$	0\$	0\$
6	Price Effects	\$12,950	\$19,501	\$22,427	\$28,405	\$35,614
10	Non-embedded Greenhouse Gas Reduction Costs	\$200,712	\$302,248	\$347,586	\$440,243	\$551,968
11	Non-embedded Nitrous Oxide (NOx Costs)	\$29,754	\$44,806	\$51,527	\$65,262	\$81,824
12	Reliability Costs	0\$	0\$	0\$	0\$	\$0
13	Cost of supply (Sum of rows 1-12)	\$647,338	\$978,948	\$1,125,790	\$1,432,882	\$1,796,518
14	Program Implementation Expenses (Direct)	\$332,651	\$629,446	\$723,863	\$957,322	\$1,200,271
31	Program Implementation Expenses (Distributed from					
CT	sector level)	\$14,626	\$19,193	\$22,072	\$26,951	\$33,791
91	Program Implementation Expenses (OER and EERMC					
70	Distributed from portfolio level)	\$6,010	\$13,377	\$15,407	\$20,196	\$25,372
17	Customer Contribution	\$69,390	\$136,464	\$156,934	\$217,162	\$272,273
18	Shareholder Incentive (Distributed from sector level)	\$24,549	\$43,082	\$43,082	\$56,646	\$56,646
19	Cost of energy efficiency (Sum of rows 14-18)	\$447,226	\$841,562	\$961,358	\$1,278,276	\$1,588,353
70	Difference (Row 13 - Row 19)	\$200,112	\$137,386	\$164,432	\$154,605	\$208,165

Notes:

All values are from the Gas Benefit-Cost Model, 2021-2023 Plan. For 2021, Row (5) is equivalent to the column "Natural Gas" in table G-6. Rows (1)-(4), and rows (6)-(12) are components of the Column "Other Non-Gas Benefit" in table G-6.

(14) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Program Implementation Expenses."

(15) Some costs are only at the sector level. They are allocated to programs for the purpose of this analysis by multiplying those sector evel costs by the ratio of the program's direct programmatic costs to the sector direct programmatic costs. (16) Some costs are only at the porffolio level (EERMC and OER costs). They are allocated to programs for the purpose of this analysis by multiplying those portfolio level costs by the ratio of the program's direct programmatic costs.

(17) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Customer Contribution."

purpose of this analysis by multiplying the sector level shareholder incentive by the ratio of the program's direct programmatic costs to the (18) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Shareholder Incentive." This category is allocated to programs for the sector direct programmatic costs.

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5076

Attachment PUC 1-22-9	Calculation of cost of supply compared to cost of energy efficiency for Natural Gas Small Business Direct Install Program- Part 2

Calc	Calculation of cost of supply compared to cost of energy efficiency for Natural Gas Small Business Direct Install Program- Part :	ency for Natural	Gas Small Bus	iness Direct In	ıstall Program	- Part 2
	Gas Energy	2021	2022	2	2023	13
			Base Case	High	Raco Caco	High
			Dase Case	Scenario	Dase Case	Scenario
Ref	В	q	C	ъ	e	ţ
1	Natural Gas Costs	\$403,922	\$612,393	\$704,252	\$898,971	\$1,127,112
2	Natural Gas Price Effects	\$12,950	\$19,501	\$22,427	\$28,405	\$35,614
3	Cost of supply (Sum of rows 1-2)	\$416,872	\$631,894	\$726,678	\$927,376	\$1,162,725
4	Program Implementation Expenses (Direct)	\$332,651	\$629,446	\$723,863	\$957,322	\$1,200,271
ш	Program Implementation Expenses (Distributed from					
n	sector level)	\$14,626	\$19,193	\$22,072	\$26,951	\$33,791
Ų	Program Implementation Expenses (OER and EERMC					
0	Distributed from portfolio level)	\$6,010	\$13,377	\$15,407	\$20,196	\$25,372
7	Customer Contribution	\$69,390	\$136,464	\$156,934	\$217,162	\$272,273
80	Shareholder Incentive (Distributed from sector level)	\$24,549	\$43,082	\$43,082	\$56,646	\$56,646
6	Cost of energy efficiency (Sum of rows 4-8)	\$447,226	\$841,562	\$961,358	\$1,278,276	\$1,588,353
10	Difference (Row 3 - Row 9)	-\$30,354	-\$209,668	-\$234,680	-\$350,900	-\$425,627

Notes:

All values are from the Gas Benefit-Cost Model, 2021-2023 Plan. For 2021, Row (5) is equivalent to the column "Natural Gas" in table G-6. Rows (1)-(4), and rows (6)-(12) are components of the Column "Other Non-Gas Benefit" in table G-6.

(4) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Program Implementation Expenses."

(5) Some costs are only at the sector level. They are allocated to programs for the purpose of this analysis by multiplying those sector level costs by the ratio of the program's direct programmatic costs to the sector direct programmatic costs.

(6) Some costs are only at the portfolio level (EERMC and OER costs). They are allocated to programs for the purpose of this analysis by multiplying those portfolio level costs by the ratio of the program's direct programmatic costs.

(7) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Customer Contribution."

purpose of this analysis by multiplying the sector level shareholder incentive by the ratio of the program's direct programmatic costs to the (8) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Shareholder Incentive." This category is allocated to programs for the sector direct programmatic costs.

The Narragansett Electric Company RIPUC Docket No. 5076 d/b/a National Grid

Calculation of cost of supply compared to cost of energy efficiency for Natural Gas Small Business Direct Install Program- Part 3 Attachment PUC 1-22-9

	Gas Energy 2021 2022 2023	2021	2022	.2	20.	2023
			Base Case	High Scenario	Base Case	High Scenario
Ref	В	q	J	Р	e	+
1	Natural Gas Costs	\$403,922	\$612,393	\$704,252	\$898,971	\$1,127,112
2	Cost of supply (Row 1)	\$403,922	\$612,393	\$704,252	\$898,971	\$1,127,112
3	Program Implementation Expenses (Direct)	\$332,651	\$629,446	\$723,863		\$957,322 \$1,200,271
,	Program Implementation Expenses (Distributed from					
4	sector level)	\$14,626	\$19,193	\$22,072	\$26,951	\$33,791
L	Program Implementation Expenses (OER and EERMC					
n	Distributed from portfolio level)	\$6,010	\$13,377	\$15,407	\$20,196	\$25,372
9	Customer Contribution	068'69\$	\$136,464	\$156,934	\$217,162	\$272,273
7	Shareholder Incentive (Distributed from sector level)	\$24,549	\$43,082	\$43,082	\$56,646	\$56,646
8	Cost of energy efficiency (Sum of rows 3-7)	\$447,226	\$841,562	\$961,358	\$1,278,276	\$1,588,353
6	Difference (Row 2 - Row 8)	-\$43,304	-\$229,170	-\$257,107	506,676\$-	-\$461,241
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Notes:

All values are from the Gas Benefit-Cost Model, 2021-2023 Plan. For 2021, Row (5) is equivalent to the column "Natural Gas" in table G-6.

Rows (1)-(4), and rows (6)-(12) are components of the Column "Other Non-Gas Benefit" in table G-6.

(4) Some costs are only at the sector level. They are allocated to programs for the purpose of this analysis by multiplying those sector level (3) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Program Implementation Expenses."

costs by the ratio of the program's direct programmatic costs to the sector direct programmatic costs.

(5) Some costs are only at the portfolio level (EERMC and OER costs). They are allocated to programs for the purpose of this analysis by multiplying those portfolio level costs by the ratio of the program's direct programmatic costs to the all direct programmatic costs.

(6) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Customer Contribution."

(7) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Shareholder Incentive." This category is allocated to programs for the

purpose of this analysis by multiplying the sector level shareholder incentive by the ratio of the program's direct programmatic costs to the

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5	Gas Energy 2021 2022 2023	2021	2022	2	200	2023
			Base Case	High Scenario	Base Case	High Scenario
Ref	В	q	C	Р	ө	ţ
1	Electric Energy Costs	\$10,089	\$10,301	\$11,846	\$10,599	\$13,289
2	Electric Generation Costs	\$8,500	\$9,159	\$10,533	\$9,830	\$12,325
3	Electric Transmission Capacity Costs	\$69'6\$	\$69'6\$	\$11,149	\$9,695	\$12,155
4	Electric Distribution Capacity Cost	\$8,419	\$8,419	\$9,682	\$8,419	\$10,556
2	Natural Gas Costs	\$1,254,470	\$1,258,586	\$1,447,374	\$1,263,801	\$1,584,528
9	Fuel Costs	0\$	0\$	0\$	0\$	0\$
7	Income Eligible Rate Discount	0\$	0\$	0\$	0\$	0\$
8	Arrearages	0\$	0\$	0\$	0\$	0\$
6	Price Effects	\$34,070	\$34,070	\$39,181	\$34,070	\$42,716
10	Non-embedded Greenhouse Gas Reduction Costs	\$581,434	\$581,373	\$668,579	\$581,310	\$728,835
11	Non-embedded Nitrous Oxide (NOx Costs)	\$85,311	\$85,311	\$98,107	\$85,311	\$106,961
12	Reliability Costs	\$485	\$485	\$557	\$485	\$608
13	Cost of supply (Sum of rows 1-12)	\$1,992,472	\$1,997,398	\$2,297,008	\$2,003,519	\$2,511,972
14	Program Implementation Expenses (Direct)	\$953,219	\$1,026,754	\$1,180,767	\$1,015,212	\$1,272,852
16	Program Implementation Expenses (Distributed from					
CT	sector level)	\$41,912	\$31,308	\$36,005	\$28,581	\$35,834
16	Program Implementation Expenses (OER and EERMC					
2	Distributed from portfolio level)	\$17,221	\$21,820	\$25,132	\$21,417	\$26,906
17	Customer Contribution	\$84,000	\$84,000	\$96,600	\$84,000	\$105,317
18	Shareholder Incentive (Distributed from sector level)	\$70,347	\$70,275	\$70,275	\$60,071	\$60,071
19	Cost of energy efficiency (Sum of rows 14-18)	\$1,166,699	\$1,234,158	\$1,408,779	\$1,209,281	\$1,500,981
20	Difference (Row 13 - Row 19)	\$825,773	\$763,240	\$888,229	\$794,239	\$1,010,991

Notes:

All values are from the Gas Benefit-Cost Model, 2021-2023 Plan. For 2021, Row (5) is equivalent to the column "Natural Gas" in table G-6.

Rows (1)-(4), and rows (6)-(12) are components of the Column "Other Non-Gas Benefit" in table G-6.

(14) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Program Implementation Expenses."

(15) Some costs are only at the sector level. They are allocated to programs for the purpose of this analysis by multiplying those sector level costs by the ratio of the program's direct programmatic costs to the sector direct programmatic costs. (16) Some costs are only at the portfolio level (EERMC and OER costs). They are allocated to programs for the purpose of this analysis by multiplying those portfolio level costs by the ratio of the program's direct programmatic costs to the all direct programmatic costs.

purpose of this analysis by multiplying the sector level shareholder incentive by the ratio of the program's direct programmatic costs to the (18) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Shareholder Incentive." This category is allocated to programs for the (17) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Customer Contribution." sector direct programmatic costs.

Calculation of cost of supply compared to cost of energy efficiency for Natural Gas Commercial & Industrial Multifamily Program- Part 2

	Gas Energy	2021	2022	2	2023	23
			Base Case	High	Race Cace	High
				Scenario		Scenario
Ref	В	q	U	ъ	Ð	f
1	Natural Gas Costs	\$1,254,470	\$1,258,586	\$1,447,374	\$1,263,801	\$1,584,528
2	Natural Gas Price Effects	\$30,810	\$30,810	\$35,432	\$30,810	\$38,629
3	Cost of supply (Sum of rows 1-2)	\$1,285,280	\$1,289,396	\$1,289,396 \$1,482,806	\$1,294,611 \$1,623,157	\$1,623,157
4	Program Implementation Expenses (Direct)	\$953,219	\$1,026,754	\$1,180,767	\$1,026,754 \$1,180,767 \$1,015,212 \$1,272,852	\$1,272,852
L	Program Implementation Expenses (Distributed from					
n	sector level)	\$41,912	\$31,308	\$36,005	\$28,581	\$35,834
9	Program Implementation Expenses (OER and EERMC					
0	Distributed from portfolio level)	\$17,221	\$21,820	\$25,132	\$21,417	\$26,906
7	Customer Contribution	\$84,000	\$84,000	009'96\$	\$84,000	\$105,317
∞	Shareholder Incentive (Distributed from sector level)	\$70,347	\$70,275	\$70,275	\$60,071	\$60,071
6	Cost of energy efficiency (Sum of rows 4-8)	\$1,166,699	\$1,234,158	\$1,408,779	\$1,209,281	\$1,500,981
10	Difference (Row 3 - Row 9)	\$118,581	\$55,238	\$74,027	\$85,331	\$122,177

Notes:

All values are from the Gas Benefit-Cost Model, 2021-2023 Plan. For 2021, Row (5) is equivalent to the column "Natural Gas" in table G-6.

Rows (1)-(4), and rows (6)-(12) are components of the Column "Other Non-Gas Benefit" in table G-6.

(5) Some costs are only at the sector level. They are allocated to programs for the purpose of this analysis by multiplying those sector level (4) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Program Implementation Expenses."

costs by the ratio of the program's direct programmatic costs to the sector direct programmatic costs.

(6) Some costs are only at the portfolio level (EERMC and OER costs). They are allocated to programs for the purpose of this analysis by multiplying those portfolio level costs by the ratio of the program's direct programmatic costs to the all direct programmatic costs.

(7) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Customer Contribution."

purpose of this analysis by multiplying the sector level shareholder incentive by the ratio of the program's direct programmatic costs to the (8) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Shareholder Incentive." This category is allocated to programs for the sector direct programmatic costs.

RIPUC Docket No. 5076 Attachment PUC 1-22-10	Calculation of cost of supply compared to cost of energy efficiency for Natural Gas Commercial & Industrial Multifamily Program- Part 3
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	Gas Energy	2021	2022	2	2023	23
			Base Case	High Scenario	Base Case	High Scenario
Ref	100	q	U	ъ	Ð	ţ
1	Natural Gas Costs	\$1,254,470	\$1,258,586	\$1,258,586 \$1,447,374	\$1,263,801	\$1,584,528
2	Cost of supply (Row 1)	\$1,254,470	\$1,258,586	\$1,258,586 \$1,447,374 \$1,263,801	\$1,263,801	\$1,584,528
3	Program Implementation Expenses (Direct)	\$953,219	\$1,026,754	\$1,026,754 \$1,180,767	\$1,015,212	\$1,272,852
,	Program Implementation Expenses (Distributed from					
•	sector level)	\$41,912	\$31,308	\$36,005	\$28,581	\$35,834
u	Program Implementation Expenses (OER and EERMC					
n	Distributed from portfolio level)	\$17,221	\$21,820	\$25,132	\$21,417	\$26,906
9	Customer Contribution	\$84,000	\$84,000	\$96,600	\$84,000	\$105,317
7	Shareholder Incentive (Distributed from sector level)	\$70,347	\$70,275	\$70,275	\$60,071	\$60,071
8	Cost of energy efficiency (Sum of rows 3-7)	\$1,166,699	\$1,234,158	\$1,408,779	\$1,209,281	\$1,500,981
6	Difference (Row 2 - Row 8)	\$87,771	\$24,428	\$38,595	\$54,520	\$83,547

Notes:

All values are from the Gas Benefit-Cost Model, 2021-2023 Plan. For 2021, Row (5) is equivalent to the column "Natural Gas" in table G-6.

Rows (1)-(4), and rows (6)-(12) are components of the Column "Other Non-Gas Benefit" in table G-6.

(4) Some costs are only at the sector level. They are allocated to programs for the purpose of this analysis by multiplying those sector level (3) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Program Implementation Expenses."

costs by the ratio of the program's direct programmatic costs to the sector direct programmatic costs.

(5) Some costs are only at the portfolio level (EERMC and OER costs). They are allocated to programs for the purpose of this analysis by multiplying those portfolio level costs by the ratio of the program's direct programmatic costs to the all direct programmatic costs.

(6) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Customer Contribution."

purpose of this analysis by multiplying the sector level shareholder incentive by the ratio of the program's direct programmatic costs to the (7) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Shareholder Incentive." This category is allocated to programs for the sector direct programmatic costs.

The Narragansett Electric Company Attachment PUC 1-22-11 RIPUC Docket No. 5076 d/b/a National Grid

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	Gas Energy	2021	2022	2	20	2023
			Base Case	High Scenario	Base Case	High Scenario
Ref	В	q	v	ъ	е	ţ
1	Electric Energy Costs	\$93,420	\$104,261	\$119,900	\$117,062	\$146,770
2	Electric Generation Costs	\$33,668	669'68\$	\$45,654	\$46,656	\$58,497
æ	Electric Transmission Capacity Costs	\$37,392	\$41,131	\$47,300	\$45,244	\$56,726
4	Electric Distribution Capacity Cost	\$32,471	\$35,718	\$41,076	\$39,290	\$49,261
2	Natural Gas Costs	\$2,198,253	\$2,424,296	\$2,787,940	\$2,676,933	\$3,356,285
9	Fuel Costs	0\$	0\$	0\$	0\$	0\$
7	Income Eligible Rate Discount	\$30,474	\$33,513	\$38,540	\$36,879	\$46,238
8	Arrearages	\$11,202	\$12,318	\$14,165	\$13,557	\$16,998
6	Price Effects	\$65,822	\$72,391	\$83,250	\$79,653	898′66\$
10	Non-embedded Greenhouse Gas Reduction Costs	\$950,488	\$1,044,672	\$1,201,373	\$1,148,922	\$1,440,495
11	Non-embedded Nitrous Oxide (NOx Costs)	\$127,937	\$140,695	\$161,799	\$154,826	\$194,118
12	Reliability Costs	\$1,747	\$1,921	\$2,210	\$2,114	\$2,650
13	Cost of supply (Sum of rows 1-12)	\$3,582,873	\$3,950,615	\$4,543,208	\$4,361,137	\$5,467,905
14	Program Implementation Expenses (Direct)	\$6,738,774	\$7,378,116	\$8,484,833		\$8,069,422 \$10,117,278
15	Program Implementation Expenses (Distributed from					
2	sector level)	\$33,464	\$58,760	\$67,574	\$64,541	\$80,920
16	Program Implementation Expenses (OER and EERMC					
70	Distributed from portfolio level)	\$121,746	\$156,798	\$180,594	\$170,232	\$213,863
17	Customer Contribution	0\$	0\$	0\$	\$0	0\$
18	Shareholder Incentive (Distributed from sector level)	\$286,603	\$295,773	\$295,773	\$303,951	\$303,951
19	Cost of energy efficiency (Sum of rows 14-18)	\$7,180,587	\$7,889,446	\$9,028,773		\$8,608,146 \$10,716,012
20	Difference (Row 13 - Row 19)	-\$3,597,714	-\$3,938,831	-\$3,938,831 -\$4,485,566 -\$4,247,009 -\$5,248,107	-\$4,247,009	-\$5,248,10

All values are from the Gas Benefit-Cost Model, 2021-2023 Plan. For 2021, Row (5) is equivalent to the column "Natural Gas" in table G-6. Rows (1)-(4), and rows (6)-(12) are components of the Column "Other Non-Gas Benefit" in table G-6.

(14) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Program Implementation Expenses."

(15) Some costs are only at the sector level. They are allocated to programs for the purpose of this analysis by multiplying those sector level costs by the ratio of the program's direct programmatic costs to the sector direct programmatic costs. (16) Some costs are only at the portfolio level (EERMC and OER costs). They are allocated to programs for the purpose of this analysis by multiplying those portfolio level costs by the ratio of the program's direct programmatic costs to the all direct programmatic costs.

(17) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Customer Contribution."

purpose of this analysis by multiplying the sector level shareholder incentive by the ratio of the program's direct programmatic costs to the (18) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Shareholder Incentive." This category is allocated to programs for the sector direct programmatic costs.

Attachment PUC 1-22-11

Calculatic	Calculation of cost of supply compared to cost of energy efficiency for Natural Gas Single Family Income Eligible Services Program- Part 2	for Natural Gas	Single Family I	ncome Eligible	e Services Pro	gram-Part 2
	Gas Energy	2021	2022	2	203	2023
			Base Case	High Scenario	Base Case	High Scenario
Ref	ъ	q	v	σ	ə	f
1	Natural Gas Costs	\$2,198,253	\$2,424,296	\$2,787,940	\$2,676,933	\$3,356,285
7	Natural Gas Price Effects	060′8ε\$	\$41,888	\$48,171	\$46,096	\$57,794
33	Cost of supply (Sum of rows 1-2)	\$2,236,343	\$2,466,184	\$2,836,111	\$2,723,029	\$3,414,078
4	Program Implementation Expenses (Direct)	\$6,738,774	\$7,378,116	\$8,484,833		\$8,069,422 \$10,117,278
L	Program Implementation Expenses (Distributed from					
n	sector level)	\$33,464	\$58,760	\$67,574	\$64,541	\$80,920
u	Program Implementation Expenses (OER and EERMC					
ь	Distributed from portfolio level)	\$121,746	\$156,798	\$180,594	\$170,232	\$213,863
7	Customer Contribution	0\$	0\$	\$0	\$0	\$0
∞	Shareholder Incentive (Distributed from sector level)	\$286,603	\$295,773	\$295,773	\$303,951	\$303,951
6	Cost of energy efficiency (Sum of rows 4-8)	\$7,180,587	\$7,889,446	\$9,028,773 \$8,608,146 \$10,716,012	\$8,608,146	\$10,716,012
10	Difference (Row 3 - Row 9)	-\$4,944,244	-\$5,423,263	-\$5,423,263 -\$6,192,662 -\$5,885,117 -\$7,301,934	-\$5,885,117	-\$7,301,934

Note:

All values are from the Gas Benefit-Cost Model, 2021-2023 Plan. For 2021, Row (5) is equivalent to the column "Natural Gas" in table G-6.

Rows (1)-(4), and rows (6)-(12) are components of the Column "Other Non-Gas Benefit" in table G-6.

(4) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Program Implementation Expenses."

(5) Some costs are only at the sector level. They are allocated to programs for the purpose of this analysis by multiplying those sector level costs by the ratio of the program's direct programmatic costs to the sector direct programmatic costs.

(6) Some costs are only at the portfolio level (EERMC and OER costs). They are allocated to programs for the purpose of this analysis by multiplying those portfolio level costs by the ratio of the program's direct programmatic costs to the all direct programmatic costs.

(7) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Customer Contribution."

purpose of this analysis by multiplying the sector level shareholder incentive by the ratio of the program's direct programmatic costs to the (8) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Shareholder Incentive." This category is allocated to programs for the sector direct programmatic costs.

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Calculation of cost of supply compared to cost of energy efficiency for Natural Gas Single Family Income Eligible Services Program- Part 3

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	Gas Energy	2021	2022	2	20	2023
			Base Case	High Scenario	Base Case	High Scenario
Ref	В	q	J	ъ	ө	f
1	Natural Gas Costs	\$2,198,253	\$2,424,296	\$2,424,296 \$2,787,940 \$2,676,933 \$3,356,285	\$2,676,933	\$3,356,285
2	Cost of supply (Row 1)	\$2,198,253	\$2,424,296	\$2,424,296 \$2,787,940	\$2,676,933	\$2,676,933 \$3,356,285
က	Program Implementation Expenses (Direct)	\$6,738,774	\$7,378,116	\$7,378,116 \$8,484,833	\$8,069,422	\$8,069,422 \$10,117,278
-	Program Implementation Expenses (Distributed from					
‡	sector level)	\$33,464	\$58,760	\$67,574	\$64,541	\$80,920
L	Program Implementation Expenses (OER and EERMC					
n	Distributed from portfolio level)	\$121,746	\$156,798	\$180,594	\$170,232	\$213,863
9	Customer Contribution	0\$	0\$	0\$	0\$	0\$
7	Shareholder Incentive (Distributed from sector level)	\$286,603	\$295,773	\$295,773	\$303,951	\$303,951
8	Cost of energy efficiency (Sum of rows 3-7)	\$7,180,587	\$7,889,446	\$7,889,446 \$9,028,773 \$8,608,146 \$10,716,012	\$8,608,146	\$10,716,012
6	Difference (Row 2 - Row 8)	-\$4,982,334		-\$5,465,151 -\$6,240,833 -\$5,931,213 -\$7,359,728	-\$5,931,213	-\$7,359,728

Notes:

All values are from the Gas Benefit-Cost Model, 2021-2023 Plan. For 2021, Row (5) is equivalent to the column "Natural Gas" in table G-6.

Rows (1)-(4), and rows (6)-(12) are components of the Column "Other Non-Gas Benefit" in table G-6. (3) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Program Implementation Expenses."

(4) Some costs are only at the sector level. They are allocated to programs for the purpose of this analysis by multiplying those sector level costs by the ratio of the program's direct programmatic costs to the sector direct programmatic costs. (5) Some costs are only at the portfolio level (EERMC and OER costs). They are allocated to programs for the purpose of this analysis by multiplying those portfolio level costs by the ratio of the program's direct programmatic costs to the all direct programmatic costs.

(6) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Customer Contribution."

purpose of this analysis by multiplying the sector level shareholder incentive by the ratio of the program's direct programmatic costs to the (7) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Shareholder Incentive." This category is allocated to programs for the

sector direct programmatic costs.

The Narragansett Electric Company Attachment PUC 1-22-12 RIPUC Docket No. 5076 d/b/a National Grid

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	Gas Energy	2021	2022	2	2023	23
			Base Case	High Scenario	Base Case	High Scenario
Ref	В	q	J	Р	ө	f
1	Electric Energy Costs	\$9,680	068'6\$	\$11,373	\$10,180	\$12,764
7	Electric Generation Costs	\$8,175	\$8,796	\$10,115	\$9,429	\$11,821
3	Electric Transmission Capacity Costs	\$9,261	\$9,261	\$10,651	\$9,261	\$11,612
4	Electric Distribution Capacity Cost	\$8,043	\$8,043	\$9,249	\$8,043	\$10,084
2	Natural Gas Costs	\$3,390,145	\$3,399,880	\$3,909,862	\$3,411,523	\$4,277,298
9	Fuel Costs	0\$	0\$	0\$	0\$	0\$
7	Income Eligible Rate Discount	\$47,050	\$47,050	\$54,108	\$47,050	\$58,991
8	Arrearages	\$9,117	\$9,117	\$10,484	\$9,117	\$11,430
6	Price Effects	\$55,130	\$55,130	\$63,400	\$55,130	\$69,121
10	Non-embedded Greenhouse Gas Reduction Costs	\$1,412,727	\$1,412,670	\$1,624,570	\$1,412,610	\$1,771,101
11	Non-embedded Nitrous Oxide (NOx Costs)	\$194,184	\$194,184	\$223,311	\$194,184	\$243,463
12	Reliability Costs	\$455	\$455	\$523	\$455	\$570
13	Cost of supply (Sum of rows 1-12)	\$5,143,967	\$5,154,475	\$5,927,646	\$5,166,981	\$6,478,256
14	Program Implementation Expenses (Direct)	\$3,254,067	\$3,223,579	\$3,707,116	\$3,213,659	\$4,029,220
16	Program Implementation Expenses (Distributed from					
CT	sector level)	\$16,159	\$25,673	\$29,524	\$25,704	\$32,227
16	Program Implementation Expenses (OER and EERMC					
2	Distributed from portfolio level)	\$58,789	\$68,507	\$78,903	\$67,795	\$85,171
17	Customer Contribution	\$0	0\$	\$0	\$0	\$0
18	Shareholder Incentive (Distributed from sector level)	\$138,397	\$129,227	\$129,227	\$121,049	\$121,049
19	Cost of energy efficiency (Sum of rows 14-18)	\$3,467,413	\$3,446,985	\$3,944,769	\$3,428,206	\$4,267,667
20	Difference (Row 13 - Row 19)	\$1,676,554	\$1,707,490	\$1,982,877	\$1,738,775	\$2,210,589

All values are from the Gas Benefit-Cost Model, 2021-2023 Plan. For 2021, Row (5) is equivalent to the column "Natural Gas" in table G-6. Rows (1)-(4), and rows (6)-(12) are components of the Column "Other Non-Gas Benefit" in table G-6.

(14) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Program Implementation Expenses."

(15) Some costs are only at the sector level. They are allocated to programs for the purpose of this analysis by multiplying those sector evel costs by the ratio of the program's direct programmatic costs to the sector direct programmatic costs. (16) Some costs are only at the portfolio level (EERMC and OER costs). They are allocated to programs for the purpose of this analysis by multiplying those portfolio level costs by the ratio of the program's direct programmatic costs to the all direct programmatic costs.

(17) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Customer Contribution."

purpose of this analysis by multiplying the sector level shareholder incentive by the ratio of the program's direct programmatic costs to the 18) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Shareholder Incentive." This category is allocated to programs for the sector direct programmatic costs.

The Narragansett Electric Company RIPUC Docket No. 5076 d/b/a National Grid

Attachment PUC 1-22-12

Calc	Calculation of cost of supply compared to cost of energy efficiency for Natural Gas Income Eligible Multifamily Program- Part 2	ency for Natura	l Gas Income E	ligible Multifa	mily Program	- Part 2
	Gas Energy	2021	2022	2	2023	23
			Base Case	High Scenario	Base Case	High
Ref	в	q	J	ъ	a	+
1	Natural Gas Costs	\$3,390,145	\$3,399,880	\$3,909,862	\$3,411,523	\$4,277,298
2	Natural Gas Price Effects	\$52,089	\$52,089	\$59,902	\$52,089	\$65,308
3	Cost of supply (Sum of rows 1-2)	\$3,442,234	\$3,451,969	\$3,969,764	\$3,463,612	\$4,342,606
4	Program Implementation Expenses (Direct)	\$3,254,067	\$3,223,579	\$3,707,116	\$3,213,659	\$4,029,220
Ц	Program Implementation Expenses (Distributed from					
n	sector level)	\$16,159	\$25,673	\$29,524	\$25,704	\$32,227
Ų	Program Implementation Expenses (OER and EERMC					
Þ	Distributed from portfolio level)	\$58,789	\$68,507	\$78,903	\$67,795	\$85,171
7	Customer Contribution	0\$	0\$	\$0	0\$	\$0
∞	Shareholder Incentive (Distributed from sector level)	\$138,397	\$129,227	\$129,227	\$121,049	\$121,049
6	Cost of energy efficiency (Sum of rows 4-8)	\$3,467,413	\$3,446,985	\$3,944,769	\$3,428,206	\$4,267,667
10	Difference (Row 3 - Row 9)	-\$25,179	\$4,984	\$24,995	\$35,405	\$74,939
Notor.						

Notes:

All values are from the Gas Benefit-Cost Model, 2021-2023 Plan. For 2021, Row (5) is equivalent to the column "Natural Gas" in table G-6. Rows (1)-(4), and rows (6)-(12) are components of the Column "Other Non-Gas Benefit" in table G-6.

(4) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Program Implementation Expenses."

(5) Some costs are only at the sector level. They are allocated to programs for the purpose of this analysis by multiplying those sector level

costs by the ratio of the program's direct programmatic costs to the sector direct programmatic costs.

(6) Some costs are only at the portfolio level (EERMC and OER costs). They are allocated to programs for the purpose of this analysis by multiplying those portfolio level costs by the ratio of the program's direct programmatic costs.

(7) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Customer Contribution."

purpose of this analysis by multiplying the sector level shareholder incentive by the ratio of the program's direct programmatic costs to the (8) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Shareholder Incentive." This category is allocated to programs for the sector direct programmatic costs.

The Narragansett Electric Company RIPUC Docket No. 5076 d/b/a National Grid

Calculation of cost of supply compared to cost of energy efficiency for Natural Gas Income Eligible Multifamily Program- Part 3 Attachment PUC 1-22-12

5	carcalation of cost of sappily companies to cost of circles of marking cas meeting rights in the circles and o	יכולא וכו למוס			y)
	Gas Energy	2021	2022	2	2023	13
			Base Case	High	Base Case	High
				Scenario		Scenario
Ref	В	q	C	р	ө	f
1	Natural Gas Costs	\$3,390,145	\$3,399,880	\$3,399,880 \$3,909,862 \$3,411,523	\$3,411,523	\$4,277,298
2	Cost of supply (Row 1)	\$3,390,145	\$3,399,880		\$3,909,862 \$3,411,523	\$4,277,298
3	Program Implementation Expenses (Direct)	\$3,254,067	\$3,223,579	\$3,707,116	\$3,213,659	\$4,029,220
•	Program Implementation Expenses (Distributed from					
4	sector level)	\$16,159	\$25,673	\$29,524	\$25,704	\$32,227
L	Program Implementation Expenses (OER and EERMC					
n	Distributed from portfolio level)	\$58,789	\$68,507	\$78,903	\$62,795	\$85,171
9	Customer Contribution	0\$	0\$	0\$	0\$	\$0
7	Shareholder Incentive (Distributed from sector level)	\$138,397	\$129,227	\$129,227	\$121,049	\$121,049
8	Cost of energy efficiency (Sum of rows 3-7)	\$3,467,413	\$3,446,985	\$3,944,769	\$3,428,206	\$4,267,667
6	Difference (Row 2 - Row 8)	-\$77,268	-\$47,105	-\$34,907	-\$16,684	\$9,631

Notes:

All values are from the Gas Benefit-Cost Model, 2021-2023 Plan. For 2021, Row (5) is equivalent to the column "Natural Gas" in table G-6.

Rows (1)-(4), and rows (6)-(12) are components of the Column "Other Non-Gas Benefit" in table G-6.

(3) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Program Implementation Expenses."

(4) Some costs are only at the sector level. They are allocated to programs for the purpose of this analysis by multiplying those sector level costs by the ratio of the program's direct programmatic costs to the sector direct programmatic costs.

(5) Some costs are only at the portfolio level (EERMC and OER costs). They are allocated to programs for the purpose of this analysis by multiplying those portfolio level costs by the ratio of the program's direct programmatic costs.

(6) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Customer Contribution."

purpose of this analysis by multiplying the sector level shareholder incentive by the ratio of the program's direct programmatic costs to the (7) 2021-2023 Three-Year Plan Attachment 2 Tables 6-10, column "Shareholder Incentive." This category is allocated to programs for the

sector direct programmatic costs.

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5076 Attachment PUC 1-22-13

		Summa	Summary of Cost of Supply Calculations for Natural Gas Portfolio and Programs	Calculations for Natural Gas	s Portfolio and P	rograms		
		_		2021	2022	22	20	2023
	Portfolio or	Analysis			Base Case	High Scenario	Base Case	High Scenario
Sector	Program Category	Version	Cost Component					
			Cost of Supply	\$59,865,656	\$66,083,854	\$75,795,508	\$80,301,818	\$100,340,724
		Variant 1	Cost of Energy Efficiency	\$48,361,444	\$51,993,464	\$59,471,291	\$61,498,086	\$76,561,635
			Difference	\$11,504,212	\$14,090,390	\$16,324,218	\$18,803,732	\$23,779,089
) c () c () c ()		Cost of Supply	\$39,048,492	\$43,169,015	\$49,510,238	\$52,501,388	\$65,598,117
Portfolio	Natural Gas Dortfolio	Variant 2	Cost of Energy Efficiency	\$48,361,444	\$51,993,464	\$59,471,291	\$61,498,086	\$76,561,635
	POLICINO		Difference	-\$9,312,951	-\$8,824,449	-\$9,961,053	769'966'8\$-	-\$10,963,518
			Cost of Supply	\$38,050,536	\$42,093,169	\$48,279,348	\$51,202,434	\$63,980,228
		Variant 3	Cost of Energy Efficiency	\$48,361,444	\$51,993,464	\$59,471,291	\$61,498,086	\$76,561,635
			Difference	-\$10,310,908	-\$9,900,296	-\$11,191,943	-\$10,295,652	-\$12,581,407
				2021	2022	52	20	2023
Sector	Level of Analysis	Analysis Version	Category		Base Case	High Scenario	Base Case	High Scenario
			Cost of Supply	\$9,771,727	\$12,580,855	\$14,467,984	\$15,264,493	\$19,138,312
		Variant 1	Cost of Energy Efficiency	\$8,470,533	\$10,829,732	\$12,431,387	\$13,002,573	\$16,264,033
			Difference	\$1,301,194	\$1,751,124	\$2,036,596	\$2,261,920	\$2,874,279
			Cost of Supply	\$6,533,478	\$8,420,970	\$9,684,115	\$10,224,858	\$12,819,719
Residential	Energy Star® HVAC Variant	Variant 2	Cost of Energy Efficiency	\$8,470,533	\$10,829,732	\$12,431,387	\$13,002,573	\$16,264,033
			Difference	-\$1,937,055	-\$2,408,762	-\$2,747,272	-\$2,777,715	-\$3,444,313
			Cost of Supply	\$6,410,428	\$8,263,138	\$9,502,609	\$10,033,882	\$12,580,278
		Variant 3	Cost of Energy Efficiency	\$8,470,533	\$10,829,732	\$12,431,387	\$13,002,573	\$16,264,033
			Difference	-\$2,060,105	-\$2,566,593	-\$2,928,778	-\$2,968,691	-\$3,683,755
				2021	2022	52	20	2023
Sector	Level of Analysis	Analysis	Category		Base Case	High Scenario	Base Case	High Scenario
			Cost of Supply	\$8,459,221	\$8,722,522	\$10,030,900	\$11,215,818	\$14,062,164
		Variant 1	Cost of Energy Efficiency	\$11,586,960	\$11,646,740	\$13,343,800	\$15,506,360	\$19,351,399
			Difference	-\$3,127,739	-\$2,924,218	-\$3,312,901	-\$4,290,543	-\$5,289,235
			Cost of Supply	\$5,374,948	\$5,542,111	\$6,373,428	\$7,126,564	\$8,935,142
Residential	EnergyWise	Variant 2	Cost of Energy Efficiency	\$11,586,960	\$11,646,740	\$13,343,800	\$15,506,360	\$19,351,399
			Difference	-\$6,212,012	-\$6,104,629	-\$6,970,372	-\$8,379,796	-\$10,416,258
			Cost of Supply	\$5,296,032	\$5,460,964	\$6,280,109	\$7,022,566	\$8,804,751
		Variant 3	Cost of Energy Efficiency	\$11,586,960	\$11,646,740	\$13,343,800	\$15,506,360	\$19,351,399
			Difference	-\$6,290,928	-\$6,185,776	-\$7,063,692	-\$8,483,794	-\$10,546,649

			1	2021	2022	22	2023	23
Sector	Level of Analysis	Analysis Version	Category		Base Case	High Scenario	Base Case	High Scenario
			Cost of Supply	\$2,199,291	\$2,207,961	\$2,539,155	\$2,217,797	\$2,780,628
		Variant 1	Cost of Energy Efficiency	\$1,940,418	\$1,940,627	\$2,224,298	\$1,922,449	\$2,400,353
			Difference	\$258,873	\$267,334	\$314,857	\$295,347	\$380,275
			Cost of Supply	\$1,451,495	\$1,458,648	\$1,677,445	\$1,466,862	\$1,839,122
Residential	Energywise Multifamily	Variant 2	Cost of Energy Efficiency	\$1,940,418	\$1,940,627	\$2,224,298	\$1,922,449	\$2,400,353
	Muthamiy		Difference	-\$488,922	-\$481,979	-\$546,852	-\$455,587	-\$561,231
			Cost of Supply	\$1,424,032	\$1,431,054	\$1,645,712	\$1,439,137	\$1,804,361
		Variant 3	Cost of Energy Efficiency	\$1,940,418	\$1,940,627	\$2,224,298	\$1,922,449	\$2,400,353
			Difference	-\$516,386	-\$509,573	-\$578,586	-\$483,312	-\$595,992
				2021	2022	22	2023	23
Sector	Level of Analysis	Analysis Version	Category		Base Case	High Scenario	Base Case	High Scenario
			Cost of Supply	\$1,347,225	\$1,339,491	\$1,339,491	\$1,340,001	\$1,340,001
		Variant 1	Cost of Energy Efficiency	\$482,550	\$473,835	\$471,919	\$469,910	\$467,541
			Difference	\$864,675	\$865,657	\$867,572	\$870,091	\$872,460
			Cost of Supply	\$901,930	\$894,196	\$894,196	\$894,705	\$894,705
Residential		Variant 2	Cost of Energy Efficiency	\$482,550	\$473,835	\$471,919	\$469,910	\$467,541
	reports		Difference	\$419,380	\$420,361	\$422,277	\$424,796	\$427,164
			Cost of Supply	\$859,710	\$851,976	\$851,976	\$852,486	\$852,486
		Variant 3	Cost of Energy Efficiency	\$482,550	\$473,835	\$471,919	\$469,910	\$467,541
			Difference	\$377,160	\$378,141	\$380,057	\$382,576	\$384,944
				2021	2022	22	2023	23
Sector	Level of Analysis	Analysis Version	Category		Base Case	High Scenario	Base Case	High Scenario
			Cost of Supply	\$1,226,358	\$1,154,787	\$1,328,006	\$1,087,242	\$1,363,162
		Variant 1	Cost of Energy Efficiency	\$1,393,197	\$1,216,527	\$1,395,963	\$1,231,821	\$1,540,315
			Difference	-\$166,839	-\$61,740	856'29\$-	-\$144,579	-\$177,153
	Docidootise Now		Cost of Supply	\$836,585	\$788,565	\$906,849	\$743,293	\$931,926
Residential	Construction	Variant 2	Cost of Energy Efficiency	\$1,393,197	\$1,216,527	\$1,395,963	\$1,231,821	\$1,540,315
	COIISH ACHOLI		Difference	-\$556,613	-\$427,963	-\$489,114	-\$488,528	-\$608,389
			Cost of Supply	\$822,009	\$774,607	\$80,798	\$730,090	\$915,372
		Variant 3	Cost of Energy Efficiency	\$1,393,197	\$1,216,527	\$1,395,963	\$1,231,821	\$1,540,315
			Difference	-\$571,189	-\$441,920	-\$505,165	-\$501,731	-\$624,943

	•			2021	2022	2	20	2023
		Analysis			Race Cace	High Scenario	Race Cace	High Scenario
Sector	Level of Analysis	Version	Category			9		9
			Cost of Supply	\$5,649,435	\$6,681,080	\$7,683,242	\$7,784,452	\$9,759,988
		Variant 1	Cost of Energy Efficiency	\$2,967,595	\$3,194,380	\$3,642,687	\$3,383,005	\$4,193,098
			Difference	\$2,681,841	\$3,486,700	\$4,040,555	\$4,401,447	\$5,566,890
0 10:00	2000		Cost of Supply	\$3,609,384	\$4,277,781	\$4,919,448	\$5,009,155	\$6,280,377
	Large commercial	Variant 2	Cost of Energy Efficiency	\$2,967,595	\$3,194,380	\$3,642,687	\$3,383,005	\$4,193,098
Industrial	New Construction		Difference	\$641,789	\$1,083,401	\$1,276,761	\$1,626,150	\$2,087,279
			Cost of Supply	\$3,542,373	\$4,197,861	\$4,827,541	\$4,915,820	\$6,163,355
		Variant 3	Cost of Energy Efficiency	\$2,967,595	\$3,194,380	\$3,642,687	\$3,383,005	\$4,193,098
			Difference	\$574,778	\$1,003,482	\$1,184,854	\$1,532,815	\$1,970,257
				2021	2022	77	2023	23
Sector	Level of Analysis	Analysis Version	Category		Base Case	High Scenario	Base Case	High Scenario
			Cost of Supply	\$19,845,749	\$21,315,721	\$24,513,079	\$28,427,495	\$35,641,817
		Variant 1	Cost of Energy Efficiency	\$9,258,267	\$9,279,472	\$10,617,557	\$11,458,057	\$14,271,883
			Difference	\$10,587,482	\$12,036,249	\$13,895,523	\$16,969,438	\$21,369,934
9 Leiszammo)	- in a contract of		Cost of Supply	\$12,959,945	\$13,947,302	\$16,039,397	\$18,627,322	\$23,354,559
Commercial &	Large Commercial	Variant 2	Cost of Energy Efficiency	\$9,258,267	\$9,279,472	\$10,617,557	\$11,458,057	\$14,271,883
IIIdustilai	אפנו סווור		Difference	\$3,701,678	\$4,667,830	\$5,421,840	\$7,169,265	\$9,082,676
			Cost of Supply	\$12,449,163	\$13,418,414	\$15,431,176	\$17,957,224	\$22,514,403
		Variant 3	Cost of Energy Efficiency	\$9,258,267	\$9,279,472	\$10,617,557	\$11,458,057	\$14,271,883
			Difference	\$3,190,896	\$4,138,941	\$4,813,619	\$6,499,167	\$8,242,520
				2021	2022	22	20	2023
Sector	Level of Analysis	Analysis Version	Category		Base Case	High Scenario	Base Case	High Scenario
			Cost of Supply	\$647,338	\$978,948	\$1,125,790	\$1,432,882	\$1,796,518
		Variant 1	Cost of Energy Efficiency	\$447,226	\$841,562	\$961,358	\$1,278,276	\$1,588,353
			Difference	\$200,112	\$137,386	\$164,432	\$154,605	\$208,165
9 Leinzommo	Cmoll Business		Cost of Supply	\$416,872	\$631,894	\$726,678	\$927,376	\$1,162,725
Commercial &	Direct lectall	Variant 2	Cost of Energy Efficiency	\$447,226	\$841,562	\$961,358	\$1,278,276	\$1,588,353
IIIdustilai	חוברו ווואמוו		Difference	-\$30,354	-\$209,668	-\$234,680	-\$350,900	-\$425,627
			Cost of Supply	\$403,922	\$612,393	\$704,252	\$898,971	\$1,127,112
		Variant 3	Cost of Energy Efficiency	\$447,226	\$841,562	\$961,358	\$1,278,276	\$1,588,353
			Difference	-\$43,304	-\$229,170	-\$257,107	-\$379,305	-\$461,241

	•			2021	2022	22	20	2023
Sector	Level of Analysis	Analysis Version	Category		Base Case	High Scenario	Base Case	High Scenario
			Cost of Supply	\$1,992,472	\$1,997,398	\$2,297,008	\$2,003,519	\$2,511,972
		Variant 1	Cost of Energy Efficiency	\$1,166,699	\$1,234,158	\$1,408,779	\$1,209,281	\$1,500,981
			Difference	\$825,773	\$763,240	\$888,229	\$794,239	\$1,010,991
ادائية	Commercial &		Cost of Supply	\$1,285,280	\$1,289,396	\$1,482,806	\$1,294,611	\$1,623,157
Commercial &	Industrial	Variant 2	Cost of Energy Efficiency	\$1,166,699	\$1,234,158	\$1,408,779	\$1,209,281	\$1,500,981
וווממצנגושו	Multifamily		Difference	\$118,581	\$55,238	\$74,027	\$85,331	\$122,177
			Cost of Supply	\$1,254,470	\$1,258,586	\$1,447,374	\$1,263,801	\$1,584,528
		Variant 3	Cost of Energy Efficiency	\$1,166,699	\$1,234,158	\$1,408,779	\$1,209,281	\$1,500,981
			Difference	\$87,771	\$24,428	\$38,595	\$54,520	\$83,547
				2021	2022	22	20	2023
Sector	Level of Analysis	Analysis Version	Category		Base Case	High Scenario	Base Case	High Scenario
			Cost of Supply	\$3,582,873	\$3,950,615	\$4,543,208	\$4,361,137	\$5,467,905
		Variant 1	Cost of Energy Efficiency	\$7,180,587	\$7,889,446	\$9,028,773	\$8,608,146	\$10,716,012
			Difference	-\$3,597,714	-\$3,938,831	-\$4,485,566	-\$4,247,009	-\$5,248,107
	Single Family -		Cost of Supply	\$2,236,343	\$2,466,184	\$2,836,111	\$2,723,029	\$3,414,078
Income Eligible	Income Eligible	Variant 2	Cost of Energy Efficiency	\$7,180,587	\$7,889,446	\$9,028,773	\$8,608,146	\$10,716,012
	Services		Difference	-\$4,944,244	-\$5,423,263	-\$6,192,662	-\$5,885,117	-\$7,301,934
			Cost of Supply	\$2,198,253	\$2,424,296	\$2,787,940	\$2,676,933	\$3,356,285
		Variant 3	Cost of Energy Efficiency	\$7,180,587	\$7,889,446	\$9,028,773	\$8,608,146	\$10,716,012
			Difference	-\$4,982,334	-\$5,465,151	-\$6,240,833	-\$5,931,213	-\$7,359,728
				2021	2022	22	20	2023
Sector	Level of Analysis	Analysis Version	Category		Base Case	High Scenario	Base Case	High Scenario
			Cost of Supply	\$5,143,967	\$5,154,475	\$5,927,646	\$5,166,981	\$6,478,256
		Variant 1	Cost of Energy Efficiency	\$3,467,413	\$3,446,985	\$3,944,769	\$3,428,206	\$4,267,667
			Difference	\$1,676,554	\$1,707,490	\$1,982,877	\$1,738,775	\$2,210,589
	والإنتازات وسودها		Cost of Supply	\$3,442,234	\$3,451,969	\$3,969,764	\$3,463,612	\$4,342,606
Income Eligible	mcome engine	Variant 2	Cost of Energy Efficiency	\$3,467,413	\$3,446,985	\$3,944,769	\$3,428,206	\$4,267,667
	Muluidiiiiy		Difference	-\$25,179	\$4,984	\$24,995	\$35,405	\$74,939
			Cost of Supply	\$3,390,145	\$3,399,880	\$3,909,862	\$3,411,523	\$4,277,298
		Variant 3	Cost of Energy Efficiency	\$3,467,413	\$3,446,985	\$3,944,769	\$3,428,206	\$4,267,667
			Difference	-\$77,268	-\$47,105	-\$34,907	-\$16,684	\$9,631

Analysis Version Variant 1 matches to the full cost of supply requested in Part 1 of the request, Variant 2 matches to Part 2 of the Request, and Variant 3 matches to Part 3 of the request.

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5076

Attachment PUC 1-22-14

	Calculation of cost of supply compared to cost of energy efficiency for Electric Energy Efficiency and Demand Response portfolio - Part 1	nergy etticiency tor I	Electric Energy Ettici	ency and Demand Re	sponse portrollo - P	art 1
	Electric Energy	2021	2022	22	2023	13
			Base Case	High Scenario	Base Case	High Scenario
Ref	В	q	J	р	ə	f
1	Electric Energy Costs	\$79,611,225	\$97,727,451	\$101,545,724	\$114,501,594	\$124,568,487
7	Electric Generation Costs	\$18,302,897	\$19,986,766	\$21,197,569	\$21,857,196	\$24,796,055
က	Elecric Transmission Capacity Costs	\$27,140,269	\$28,942,820	\$31,567,721	\$30,844,737	\$36,313,366
4	Electric Distribution Capacity Cost	\$23,568,898	\$25,134,252	\$27,413,745	\$26,785,898	\$31,534,913
2	Natural Gas Costs	-\$7,302,558	-\$20,769,721	-\$21,074,930	-\$39,358,970	-\$40,239,831
9	Fuel Costs	\$19,057,521	\$21,515,863	\$22,591,656	\$35,849,366	\$38,928,810
7	Income Eligible Rate Discount	\$103,823	\$116,017	\$121,818	\$128,826	\$144,543
8	Arrearages	\$181,719	\$186,409	\$195,730	\$191,568	\$214,940
6	Price Effects	\$64,488,206	\$77,987,150	\$86,235,446	\$93,026,445	\$109,449,591
10	Non-embedded Greenhouse Gas Reduction Costs	\$36,204,083	\$36,968,858	\$38,732,652	\$37,451,974	\$42,002,697
11	Non-embedded Nitrous Oxide (NOx Costs)	\$1,739,435	\$1,285,448	\$1,375,804	\$979,666	\$1,217,303
12	Reliability Costs	\$624,526	\$717,052	\$897,603	\$817,592	\$1,128,819
13	13 Cost of supply = Sum of Rows 1 through 12	\$263,720,046	\$289,798,366	\$310,800,538	\$323,075,891	\$370,059,692
14	14 Program Implementation Expenses	\$116,806,026	\$130,367,936	\$137,689,075	\$142,904,519	\$161,348,275
15	15 Customer Contribution	\$18,435,780	\$26,524,977	\$27,724,189	\$27,736,953	\$30,810,899
16	Shareholder Incentive	\$5,500,000	\$5,500,000	\$5,500,000	\$5,500,000	\$5,500,000
17	17 Cost of energy efficiency = Sum of Rows 14 through 16	\$140,741,806	\$162,392,912	\$170,913,264	\$176,141,472	\$197,659,174
18	Difference = Row 13 - Row 17	\$122,978,239	\$127,405,453	\$139,887,274	\$146,934,419	\$172,400,518

Notes.

All values are from the Electric Benefit-Cost Model, 2021-2023 Plan. For 2021, Row (1) equal to Table E-6, sum of Energy columns "Winter Peak, "Winter Off-Peak",

"Summer Peak" and "Summer Off-Peak.", and Table E-6B Energy columns "Summer Peak" and "Summer Off-Peak"

(2) Table E-6 and E-6B, Capacity column "Summer Generation."

(3) Table E-6 and E-6B, Capacity column "Trans."

(4) Table E-6 and E-6B, Capacity column "Dist."

(5) Table E-6, Non-electric column "Natural Gas." less Gas DRIPE included in that column

(6) Table E-6, sum of Non-electric columns "Natural Gas," "Oil", "Other Resource."

(7) Calculations from Electric Benefit-Cost Model, 2021-2023 Plan

(8) Calculations from Electric Benefit-Cost Model, 2021-2023 Plan

(9) Table E-6 and E-6B, sum of Capacity column "Capacity DRIPE" and Energy column "Energy DRIPE." and calculation from Electric Benefit-Cost Model, 2021-2023 Plan for "Gas DRIPE"

(10) Table E-6 and E-6B, Societal column "Carbon."

(11) Table E-6, Societal column "NOx."

(12) Table E-6 and E-6B, Capacity column "Reliability."

(14) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Program Implementation Expenses."

[15] 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Customer Contribution."

16) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Shareholder Incentive."

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5076

Attachment PUC 1-22-14

\$36,313,366 \$124,568,487 \$24,796,055 \$31,534,913 \$110,300,193 **High Scenario** Calculation of cost of supply compared to cost of energy efficiency for Electric Energy Efficiency and Demand Response portfolio - Part 2 \$114,501,594 \$26,785,898 \$21,857,196 \$30,844,737 \$93,850,232 **Base Case** \$101,545,724 \$21,197,569 \$27,413,745 \$86,708,703 \$31,567,721 High Scenario 2022 \$19,986,766 \$28,942,820 \$25,134,252 \$97,727,451 \$78,451,049 **Base Case** \$79,611,225 \$27,140,269 \$23,568,898 \$18,302,897 \$64,709,037 2021 Electric Energy **Elecric Transmission Capacity Costs Electric Distribution Capacity Cost Electric Generation Costs** Electric Energy Costs Price Effects

Notes:

11 Difference = Row 6 - Row 10

(1) Table E-6, sum of Energy columns "Winter Peak, "Winter Off-Peak", "Summer Peak" and "Summer Off-Peak", and Table E-6B Energy columns "Summer Peak" and "Summer Off-Peak"

\$197,659,174

\$176,141,472

\$27,736,953

\$5,500,000 **\$170,913,264 \$97,520,198**

\$5,500,000

\$87,849,425

\$140,741,806

Cost of energy efficiency = Sum of Rows 7 through 9

\$72,590,520

\$5,500,000

\$111,698,185

\$129,853,840

\$327,513,014 \$161,348,275 \$30,810,899 \$5,500,000

\$287,839,656 \$142,904,519

\$268,433,462

\$250,242,338

\$213,332,326

Cost of supply = Sum of Rows 1 through 5

4

9

Program Implementation Expenses

Customer Contribution Shareholder Incentive

œ

9

\$116,806,026 \$18,435,780

\$130,367,936

\$26,524,977

\$137,689,075 \$27,724,189

(2) Table E-6 and E-6B, Capacity column "Summer Generation."

(3) Table E-6 and E-6B, Capacity column "Trans."

(4) Table E-6 and E-6B, Capacity column "Dist."

(5) Table E-6 and E-6B, sum of Capacity column "Capacity DRIPE" and Energy column "Energy DRIPE."

(7) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Program Implementation Expenses."

(8) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Customer Contribution."

(9) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Shareholder Incentive."

The Narragansett Electric Company Attachment PUC 1-22-14 RIPUC Docket No. 5076 d/b/a National Grid

	Calculation of cost of supply compared to cost of energy efficiency for electric chiefly and permand nesponse portions - rail 3	ileigy ei ileieiley ioi t	וכנוור בווכו אל בוווכו	elicy alla Dellialla ne	spouse portions - r	alt3
	Electric Energy	2021	2022	22	2023	23
			Base Case	High Scenario	Base Case	High Scenario
Ref	В	q	J	ъ	e	f
1	Electric Energy Costs	\$79,611,225	\$97,727,451	\$101,545,724	\$114,501,594	\$124,568,487
2	Electric Generation Costs	\$18,302,897	\$19,986,766	\$21,197,569	\$21,857,196	\$24,796,055
3	3 Cost of supply = Sum of Rows 1 through 5	\$97,914,122	\$117,714,217	\$122,743,292	\$136,358,789	\$149,364,542
4	4 Program Implementation Expenses	\$116,806,026	\$130,367,936	\$137,689,075	\$142,904,519	\$161,348,275
2	5 Customer Contribution	\$18,435,780	\$26,524,977	\$27,724,189	\$27,736,953	\$30,810,899
9	6 Shareholder Incentive	\$5,500,000	\$5,500,000	\$5,500,000	\$5,500,000	\$5,500,000
7	Cost of energy efficiency = Sum of Rows 7 through 9	\$140,741,806	\$162,392,912	\$170,913,264	\$176,141,472	\$197,659,174
8	Difference = Row 6 - Row 10	-\$42,827,684	-\$44,678,695	-\$48,169,972	-\$39,782,682	-\$48,294,632

(1) Table E-6, sum of Energy columns "Winter Peak, "Winter Off-Peak", "Summer Peak" and "Summer Off-Peak", and Table E-6B Energy columns "Summer Peak" and "Summer Off-Peak"

(2) Table E-6 and E-6B, Capacity column "Summer Generation."

(4) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Program Implementation Expenses."

(5) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Customer Contribution." (6) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Shareholder Incentive."

The Narragansett Electric Company Attachment PUC 1-22-15 RIPUC Docket No. 5076 d/b/a National Grid

Calculation of cost of supply compared to cost of energy efficiency for Electric Residential New Construction Program - Part 1

	Electric Energy	2021	2022	22	2023	33
			Base Case	High Scenario	Base Case	High Scenario
Ref	ь	q	J	р	Ð	-
1	Electric Energy Costs	\$1,227,216	\$1,237,008	\$1,298,859	\$1,394,493	\$1,564,622
7	Electric Generation Costs	\$74,840	\$86,522	\$90,848	\$93,520	\$104,930
m	Elecric Transmission Capacity Costs	\$95,150	\$107,087	\$112,441	\$112,184	\$125,870
4	Electric Distribution Capacity Cost	\$82,630	\$92,995	\$97,645	\$97,422	\$109,307
2	Natural Gas Costs	0\$	0\$	0\$	0\$	0\$
9	Fuel Costs	\$1,816,235	\$1,894,371	\$1,989,089	\$2,021,808	\$2,268,469
7	Income Eligible Rate Discount	0\$	0\$	0\$	0\$	\$0
8	Arrearages	0\$	0\$	0\$	0\$	\$0
6	Price Effects	\$367,797	\$367,100	\$385,455	\$407,445	\$457,154
10	10 Non-embedded Greenhouse Gas Reduction Costs	\$536,319	\$545,749	\$573,036	\$594,593	\$667,134
11	11 Non-embedded Nitrous Oxide (NOx Costs)	\$33,514	\$35,973	\$37,771	\$36,388	\$44,193
12	12 Reliability Costs	\$312	\$322	\$338	\$325	\$365
13	13 Cost of supply (Sum of rows 1-12)	\$4,234,013	\$4,367,127	\$4,585,483	\$4,761,178	\$5,342,043
14	14 Program Implementation Expenses (Direct)	\$1,544,335	\$1,419,478	\$1,490,452	\$1,502,747	\$1,686,083
15	Program Implementation Expenses (Distributed from sector level)	\$36,215	\$41,856	\$44,253	\$40,510	\$46,130
16	Program Implementation Expenses (OER and EERMC	\$34.054	973 848	520 053	530 581	\$34.083
17	_	\$24,034	\$27,040	\$29,037	\$30,381	\$34,082
18	18 Shareholder Incentive (Distributed from sector level)	\$83,226	\$82,494	\$82,806	\$74,140	\$74,686
19	19 Cost of energy efficiency (Sum of rows 14-18)	\$2,543,563	\$2,384,467	\$2,500,000	\$2,508,197	\$2,806,147
20	20 Difference (Row 13 - Row 19)	\$1,690,450	\$1,982,659	\$2,085,484	\$2,252,981	\$2,535,897
ĺ						

All values are from the Electric Benefit-Cost Model, 2021-2023 Plan. For 2021, Row (1) equal to Table E-6, sum of Energy columns "Winter Peak, "Winter Off-Peak", "Summer Peak" and "Summer Off-Peak.

(2) Table E-6, Capacity column "Summer Generation."

(3) Table E-6 , Capacity column "Trans."

(4) Table E-6 , Capacity column "Dist."

(5) Table E-6, Non-electric column "Natural Gas." less Gas DRIPE included in that column

(6) Table E-6, sum of Non-electric columns "Oil", "Other Resource." and calculation from Electric Benefit-Cost Model, 2021-2023 Plan

(7) Calculations from Electric Benefit-Cost Model, 2021-2023 Plan

(8) Calculations from Electric Benefit-Cost Model, 2021-2023 Plan

(9) Table E-6, sum of Capacity column "Capacity DRIPE" and Energy column "Energy DRIPE." and calculation from Electric Benefit-Cost Model, 2021-2023 Plan for "Gas

(10) Table E-6, Societal column "Carbon."

(11) Table E-6, Societal column "NOx."

(12) Table E-6, Capacity column "Reliability."

(15) Some costs are only at the sector level. They are allocated to programs for the purpose of this analysis by multiplying those sector level costs by the ratio of the (14) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Program Implementation Expenses." program's direct programmatic costs to the sector direct programmatic costs.

(16) Some costs are only at the portfolio level (EERMC and OER costs). They are allocated to programs for the purpose of this analysis by multiplying those portfolio

level costs by the ratio of the program's direct programmatic costs to the all direct programmatic costs. (17) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Customer Contribution."

(18) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Shareholder Incentive." This category is allocated to programs for the purpose of this analysis by multiplying the sector level shareholder incentive by the ratio of the program's direct programmatic costs. Omits the Connected Solutions programs that are not eligible for this shareholder incentive

Attachment PUC 1-22-15 RIPUC Docket No. 5076 d/b/a National Grid

	Calculation of cost of supply compared to cost of energy efficiency for Electric Residential New Construction Program - Part 2	of energy efficiency	for Electric Residen	tial New Constructio	n Program - Part 2	
	Electric Energy	2021	2022	.2	2023	13
			Base Case	High Scenario	Base Case	High Scenario
Ref	ю	q	U	ъ	e	ţ
1	Electric Energy Costs	\$1,227,216	\$1,237,008	\$1,298,859	\$1,394,493	\$1,564,622
7	Electric Generation Costs	\$74,840	\$86,522	\$90,848	\$93,520	\$104,930
3	Elecric Transmission Capacity Costs	\$95,150	\$107,087	\$112,441	\$112,184	\$125,870
4	Electric Distribution Capacity Cost	\$82,630	\$92,995	\$97,645	\$97,422	\$109,307
2	Price Effects	\$367,797	\$367,100	\$385,455	\$407,445	\$457,154
9	Cost of supply (Sum of Rows 1-5)	\$1,847,633	\$1,890,712	\$1,985,248	\$2,105,064	\$2,361,883
7	Program Implementation Expenses (Direct)	\$1,544,335	\$1,419,478	\$1,490,452	\$1,502,747	\$1,686,083
∞	Program Implementation Expenses (Distributed from sector level)	\$36,215	\$41,856	\$44,253	\$40,510	\$46,130
6	Program Implementation Expenses (OER and EERMC	2000		10000	201	4 64
	Distributed from portfolio level)	\$24,054	\$7,7848	750,625	\$30,581	\$34,082
10	Customer Contribution	\$855,733	\$812,792	\$853,431	\$860,219	\$965,166
11	Shareholder Incentive (Distributed from sector level)	\$83,226	\$82,494	\$82,806	\$74,140	\$74,686
13	13 Cost of energy efficiency (Sum of Rows 7-11)	\$2,543,563	\$2,384,467	\$2,500,000	\$2,508,197	\$2,806,147
14	14 Difference (Row 6 - Row 13)	-\$695,930	-\$493,755	-\$514,752	-\$403,133	-\$444,264
Notes	es:					

(1) Table E-6, sum of Energy columns "Winter Peak, "Winter Off-Peak", "Summer Peak" and "Summer Off-Peak."

(2) Table E-6 , Capacity column "Summer Generation."

(3) Table E-6, Capacity column "Trans."

(4) Table E-6 , Capacity column "Dist."

(5) Table E-6, sum of Capacity column "Capacity DRIPE" and Energy column "Energy DRIPE."

(7) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Program Implementation Expenses."

(8) Some costs are only at the sector level. They are allocated to programs for the purpose of this analysis by multiplying those sector level costs by the ratio of the

(9) Some costs are only at the portfolio level (EERMC and OER costs). They are allocated to programs for the purpose of this analysis by multiplying those portfolio level program's direct programmatic costs to the sector direct programmatic costs.

costs by the ratio of the program's direct programmatic costs to the all direct programmatic costs. (10) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Customer Contribution.

(11) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Shareholder Incentive." This category is allocated to programs for the purpose of this analysis by multiplying the sector level shareholder incentive by the ratio of the program's direct programmatic costs to the sector direct programmatic costs. Omits the

Attachment PUC 1-22-15 RIPUC Docket No. 5076

Ref 1 Electric Energy Costs 2 Electric Generation Costs 3 Cost of supply (sum of Ro 4 Program Implementation Program Implementation 5 level) 1 Program Implementation 6 Program Implementation 7 Program Implementation 8 Program Implementation 9 Program Implementation	Electric Energy a Electric Energy Costs Electric Generation Costs Cost of supply (sum of Rows 1.2) Program Implementation Expenses (Direct) Program Implementation Expenses (Direct)	2021 b \$1,227,216 \$74,840 \$1.302,056	2022 Base Case c c \$1,237,008	High Scenario	2023	
	a Costs tion Costs (sum of Rows 1-2) mentation Expenses (Direct) mentation Expenses (Distributed from sector	b \$1,227,216 \$74,840 \$1.302.056	Base Case c c \$1,237,008	High Scenario	Baco Caco	
	Costs tion Costs sum of Rows 1.2) mentation Expenses (Direct) mentation Expenses (Distributed from sector	b \$1,227,216 \$74,840 \$1.302.056	\$1,237,008	7	ם משב כמשב	High Scenario
1 Electric Energy C. 2 Electric Generation S. 3 Cost of supply (s.) 4 Program Implem Program Implem (s.) 5 [evel) 6 Program Implem Impl	Costs tion Costs (sum of Rows 1-2) mentation Expenses (Direct) mentation Expenses (Distributed from sector	\$1,227,216 \$74,840 \$1.302.056	\$1,237,008	3	Ð	f
2 Electric Generatii 3 Cost of supply (s 4 Program Implem Program Implem 5 level) 6 Program Implem Program Implem Program Implem	tion Costs (sum of Rows 1-2) mentation Expenses (Direct) mentation Expenses (Distributed from sector	\$74,840	\$86 522	\$1,298,859	\$1,394,493	\$1,564,622
3 Cost of supply (s 4 Program Implem 5 Program Implem 6 Program Implem 7 Program Implem 8 Program Implem	(sum of Rows 1-2) mentation Expenses (Direct) mentation Expenses (Distributed from sector	\$1.302.056	111111111111111111111111111111111111111	\$90,848	\$93,520	\$104,930
4 Program Implem Program Implem level) Program Implem Program Implem	mentation Expenses (Direct) mentation Expenses (Distributed from sector		\$1,323,530	\$1,389,707	\$1,488,014	\$1,669,552
Program Implem level) Program Implem	mentation Expenses (Distributed from sector	\$1,544,335	\$1,419,478	\$1,490,452	\$1,502,747	\$1,686,083
Program Implem		\$36,215	\$41,856	\$44,253	\$40,510	\$46,130
Distributed from portfolio level)	Program Implementation Expenses (OER and EERMC Distributed from portfolio level)	\$24,054	\$27,848	\$29,057	\$30,581	\$34,082
7 Customer Contribution	ribution	\$855,733	\$812,792	\$853,431	\$860,219	\$965,166
8 Shareholder Ince	Shareholder Incentive (Distributed from sector level)	\$83,226	\$82,494	\$82,806	\$74,140	\$74,686
9 Cost of energy ei	9 Cost of energy efficiency (sum of Rows 4-8)	\$2,543,563	\$2,384,467	\$2,500,000	\$2,508,197	\$2,806,147
10 Difference (Row 3 - Row 9)	w 3 - Row 9)	-\$1,241,507	-\$1,060,937	-\$1,110,293	-\$1,020,183	-\$1,136,595

(1) Table E-6, sum of Energy columns "Winter Peak, "Winter Off-Peak", "Summer Peak" and "Summer Off-Peak."

(2) Table E-6, Capacity column "Summer Generation.

(4) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Program Implementation Expenses."

(5) Some costs are only at the sector level. They are allocated to programs for the purpose of this analysis by multiplying those sector level costs by the ratio of the

(6) Some costs are only at the portfolio level (EERMC and OER costs). They are allocated to programs for the purpose of this analysis by multiplying those portfolio level costs by the ratio of the program's direct programmatic costs to the all direct programmatic costs. program's direct programmatic costs to the sector direct programmatic costs.

(7) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Customer Contribution."

(8) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Shareholder Incentive." This category is allocated to programs for the purpose of this analysis by multiplying the sector level shareholder incentive by the ratio of the program's direct programmatic costs to the sector direct programmatic costs. Omits the

Attachment PUC 1-22-16 RIPUC Docket No. 5076

	Electric Energy	2021	20	2022	700	2023
			Base Case	High Scenario	Base Case	High Scenario
Ref	е	q	3	р	e	J
1	Electric Energy Costs	\$3,434,675	\$4,665,249	\$4,898,511	\$5,614,451	\$6,299,416
7	Electric Generation Costs	\$269,969	\$319,893	\$335,888	\$379,530	\$425,832
æ	Elecric Transmission Capacity Costs	\$343,200	\$397,742	\$417,629	\$458,686	\$514,645
4	Electric Distribution Capacity Cost	\$298,039	\$345,403	\$362,673	\$398,327	\$446,924
2	Natural Gas Costs	\$592,633	\$788,393	\$827,813	\$906,562	\$1,017,163
9	Fuel Costs	\$81,133	\$109,289	\$114,753	\$127,272	\$142,799
7	Income Eligible Rate Discount	0\$	0\$	0\$	0\$	0\$
8	Arrearages	0\$	0\$	0\$	0\$	0\$
6	Price Effects	\$1,309,054	\$1,761,157	\$1,849,214	\$2,085,341	\$2,339,754
19	10 Non-embedded Greenhouse Gas Reduction Costs	\$1,684,780	\$2,231,478	\$2,343,052	\$2,600,872	\$2,918,179
11	Non-embedded Nitrous Oxide (NOx Costs)	\$111,768	\$149,888	\$157,382	\$176,110	\$197,596
12	Reliability Costs	\$1,000	\$1,175	\$1,234	\$1,354	\$1,519
13	13 Cost of supply (Sum of rows 1-12)	\$8,129,252	\$10,769,667	\$11,308,150	\$12,748,506	\$14,303,827
14	Program Implementation Expenses (Direct)	\$3,487,798	\$4,638,345	\$4,870,262	\$6,038,106	\$6,774,757
15	Program Implementation Expenses (Distributed from sector level)	\$81,789	\$136,769	\$144,602	\$162,771	\$185,353
16	Program Implementation Expenses (OER and EERMC					
2	Distributed from portfolio level)	\$54,325	\$90,998	\$94,949	\$122,877	\$136,943
17	Customer Contribution	\$1,311,579	\$1,560,298	\$1,638,313	\$1,064,493	\$1,194,362
18	18 Shareholder Incentive (Distributed from sector level)	\$187,962	\$269,560	\$270,580	\$297,897	160'00£\$
19	19 Cost of energy efficiency (Sum of rows 14-18)	\$5,123,453	\$6,695,970	\$7,018,707	\$7,686,144	\$8,591,506
20	20 Difference (Row 13 - Row 19)	\$3,005,799	\$4,073,697	\$4,289,443	\$5,062,362	\$5,712,321

All values are from the Electric Benefit-Cost Model, 2021-2023 Plan. For 2021, Row (1) equal to Table E-6, sum of Energy columns "Winter Peak, "Winter Off-Peak",

(2) Table E-6, Capacity column "Summer Generation."

"Summer Peak" and "Summer Off-Peak

(3) Table E-6 , Capacity column "Trans."

(4) Table E-6 , Capacity column "Dist."

(5) Table E-6, Non-electric column "Natural Gas." less Gas DRIPE included in that column

(6) Table E-6, sum of Non-electric columns "Oil", "Other Resource." and calculation from Electric Benefit-Cost Model, 2021-2023 Plan

(7) Calculations from Electric Benefit-Cost Model, 2021-2023 Plan

(8) Calculations from Electric Benefit-Cost Model, 2021-2023 Plan

(9) Table E-6, sum of Capacity column "Capacity DRIPE" and Energy column "Energy DRIPE." and calculation from Electric Benefit-Cost Model, 2021-2023 Plan for "Gas

(10) Table E-6, Societal column "Carbon."

(11) Table E-6, Societal column "NOx."

(14) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Program Implementation Expenses." (12) Table E-6, Capacity column "Reliability."

(15) Some costs are only at the sector level. They are allocated to programs for the purpose of this analysis by multiplying those sector level costs by the ratio of the program's direct programmatic costs to the sector direct programmatic costs.

(16) Some costs are only at the portfolio level (EERMC and OER costs). They are allocated to programs for the purpose of this analysis by multiplying those portfolio

level costs by the ratio of the program's direct programmatic costs to the all direct programmatic costs.

(17) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Customer Contribution."

(18) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Shareholder Incentive." This category is allocated to programs for the purpose of this analysis by multiplying the sector level shareholder incentive by the ratio of the program's direct programmatic costs. Omits the Connected Solutions programs that are not eligible for this shareholder incentive

Attachment PUC 1-22-16 RIPUC Docket No. 5076 d/b/a National Grid

	Calculation of cost of supply compared to cost of energy efficiency for Electric Energy Star HVAC Program- Part 2	to cost of energy eff	iciency for Electric Ei	nergy Star HVAC Prog	gram- Part 2	
	Electric Energy	2021	2022	22	2023	13
			Base Case	High Scenario	Base Case	High Scenario
Ref	в	q	C	р	е	f
1	Electric Energy Costs	\$3,434,675	\$4,665,249	\$4,898,511	\$5,614,451	\$6,299,416
7	Electric Generation Costs	\$269,969	\$319,893	\$332,888	\$379,530	\$425,832
3	Elecric Transmission Capacity Costs	\$343,200	\$397,742	\$417,629	\$458,686	\$514,645
4	Electric Distribution Capacity Cost	\$298,039	\$345,403	\$362,673	\$398,327	\$446,924
2	Price Effects	\$1,295,519	\$1,743,291	\$1,830,455	\$2,064,870	\$2,316,785
9	Cost of supply (Sum of Rows 1-5)	\$5,641,403	\$7,471,578	\$7,845,157	\$8,915,864	\$10,003,602
7	Program Implementation Expenses (Direct)	\$3,487,798	\$4,638,345	\$4,870,262	\$6,038,106	\$6,774,757
∞	Program Implementation Expenses (Distributed from sector level)	\$81,789	\$136,769	\$144,602	\$162,771	\$185,353
σ	Program Implementation Expenses (OER and EERMC					
'n	Distributed from portfolio level)	\$54,325	\$90,998	\$94,949	\$122,877	\$136,943
10	10 Customer Contribution	\$1,311,579	\$1,560,298	\$1,638,313	\$1,064,493	\$1,194,362
11	11 Shareholder Incentive (Distributed from sector level)	\$187,962	\$269,560	\$270,580	\$297,897	\$300,091
13	13 Cost of energy efficiency (Sum of Rows 7-11)	\$5,123,453	\$6,695,970	\$7,018,707	\$7,686,144	\$8,591,506
14	14 Difference (Row 6 - Row 13)	\$517,950	\$775,608	\$826,449	\$1,229,720	\$1,412,096

(1) Table E-6, sum of Energy columns "Winter Peak, "Winter Off-Peak", "Summer Peak" and "Summer Off-Peak."

(2) Table E-6, Capacity column "Summer Generation."

(3) Table E-6 , Capacity column "Trans." (4) Table E-6 , Capacity column "Dist."

(5) Table E-6 , sum of Capacity column "Capacity DRIPE" and Energy column "Energy DRIPE."

(7) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Program Implementation Expenses."

(8) Some costs are only at the sector level. They are allocated to programs for the purpose of this analysis by multiplying those sector level costs by the ratio of the

program's direct programmatic costs to the sector direct programmatic costs.

(9) Some costs are only at the portfolio level (EERMC and OER costs). They are allocated to programs for the purpose of this analysis by multiplying those portfolio level costs by the ratio of the program's direct programmatic costs to the all direct programmatic costs.

(10) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Customer Contribution.

(11) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Shareholder Incentive." This category is allocated to programs for the purpose of this analysis by multiplying the sector level shareholder incentive by the ratio of the program's direct programmatic costs to the sector direct programmatic costs. Omits the Connected Solutions programs that are not eligible for this shareholder incentive

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Program Implementation Expenses (Distributed from sector Sat Alas Sat Osas Sat O	Electric Energy 2021 2022 High Scenario Base a a c d d Electric Energy Costs \$3,434,675 \$4,665,249 \$4,898,511 \$4,898,511 \$335,888 \$348,739 \$348,739 \$348,739 \$348,739 \$348,739 \$348,739 \$344,602		Calculation of cost of supply compared to cost of energy efficiency for Electric Energy Star HVAC Program- Part 3	to cost or energy eth	ciency for Electric E	nergy Star HVAC Prog	gram- Part 3	
Base Case High Scenario Base Ease High Scenario Base Ease High Scenario Base Ease High Scenario Base Electric Energy Costs S3,434,675 S4,665,249 S4,898,511 Electric Generation Costs S3,704,645 S4,985,142 S5,234,399 Electric Generation Costs S3,704,645 S4,985,142 S5,234,399 Program Implementation Expenses (Distributed from sector S81,789 S4,638,345 S4,870,262 Program Implementation Expenses (Distributed from sector S81,789 S136,769 S144,602 Program Implementation Expenses (DER and EERMC S81,789 S136,769 S144,602 Distributed from portfolio level S1,311,579 S1,560,298 S1,638,313 Customer Contribution Contribution Expenses (Distributed from sector level S1,311,579 S269,560 S2,70,580 Cost of energy efficiency (sum of Rows 4-8) S5,123,433 S6,695,970 S1,710,828 S1,710,820 Program Implementation Expenses (Distributed from sector level S1,418,808 S1,710,828 S1,710,820 S1,710,820 Program Implementation Expenses (Distributed from sector level S1,710,828 S1,710,830 S	Base Case High Scenario Base Ease High Scenario Base Ease High Scenario Base Electric Energy Costs S3,434,675 S4,665,249 S4,898,511 Electric Energy Costs S3,434,675 S4,665,249 S4,898,511 Electric Generation Costs S3,704,675 S4,985,142 S5,234,399 Program Implementation Expenses (Direct) S3,487,798 S4,638,345 S4,870,262 Program Implementation Expenses (Direct) S3,487,798 S4,638,345 S4,870,262 Program Implementation Expenses (DER and EERMC S81,789 S136,769 S144,602 Program Implementation Expenses (DER and EERMC S54,325 S50,998 S14,560 Distributed from portfolio level S1,311,579 S1,560,288 S1,580,380 Cost of energy efficiency (sum of Rows 4-8) S5,123,453 S56,569 S7,018,707 Difference (Row 3 - Row 9) S1,710,828 S1,784,308 S1,784,308 S1,710,828 S1,784,308 Difference (Row 3 - Row 9) S1,710,828 S1,710,828 S1,784,308 Electric Generation Costs Gast Graph		Electric Energy	2021	20	22	20	23
Electric Energy Costs	Electric Energy Costs				Base Case	High Scenario	Base Case	High Scenario
\$1.21 \$4,665,249 \$4,898,511 \$2.1.21 \$3.434,675 \$4,665,249 \$4,898,511 \$1.21 \$3.704,645 \$4,985,142 \$5,234,399 \$2.24,398 \$3.704,645 \$4,985,142 \$5,234,399 \$2.487,798 \$4,638,345 \$4,870,262 \$2.487,798 \$4,638,345 \$144,602 \$2.43,759 \$136,769 \$90,998 \$94,949 \$2.431,311,579 \$1,560,298 \$1,638,313 \$1,713,343 **ibuted from sector level) \$1,311,579 \$26,569,507 \$7,018,707 **ibuted from sector level) \$5,123,443 \$6,695,970 \$7,018,707 ***Character level) \$5,123,443 \$5,1710,828 \$1,784,308 -\$1,710,828 -\$1,714,308	Section Sect	Re	в	q	J	р	ə	ţ
\$1-2) \$269,969 \$319,893 \$335,888 \$1-2) \$3,704,645 \$4,985,142 \$5,234,399 penses (Direct) \$3,487,798 \$4,638,345 \$4,870,262 penses (Distributed from sector \$81,789 \$136,769 \$144,602 penses (OER and EERMC \$54,325 \$90,998 \$94,949 svel) \$1,311,579 \$1,560,298 \$1,638,313 i:buted from sector level) \$187,1962 \$20,998 \$270,580 i:buted from sector level) \$51,23,443 \$6,695,970 \$7,018,707 -\$1,710,828 -\$1,784,308 -\$1,784,308 -\$1,784,308 -	State Stat	1	Electric Energy Costs	\$3,434,675	\$4,665,249	\$4,898,511	\$5,614,451	\$6,299,416
\$1.2) \$3,704,645 \$4,985,142 \$5,234,399 genses (Diect) \$3,487,798 \$4,638,345 \$4,870,262 genses (Distributed from sector \$81,789 \$136,769 \$144,602 genses (DER and EERMC \$54,325 \$90,998 \$94,949 evel) \$1,311,579 \$1,560,298 \$1,638,313 i:buted from sector level) \$187,1962 \$20,996 \$270,580 i:buted from sector level) \$51,23,443 \$6,695,970 \$7,018,707 -\$1,710,828 -\$1,784,308 -\$1,784,308 -\$1,784,308 -\$1,784,308	ost of supply (sum of Rows 1-2) \$3,704,645 \$4,985,142 \$5,234,399 rogram Implementation Expenses (Distributed from sector rogram Implementation Expenses (Distributed from sector sistributed from portfolio level) \$81,789 \$4,638,345 \$4,870,262 vvel) \$81,789 \$136,769 \$144,602 rogram Implementation Expenses (DER and EERM/C sistributed from portfolio level) \$13,311,579 \$1,560,298 \$94,949 ustomer Contribution in evel) \$1,311,579 \$1,560,298 \$1,538,313 hareholder Incentive (Distributed from sector level) \$187,962 \$20,509 \$270,580 ost of energy efficiency (sum of Rows 4-8) \$5,123,483 -\$1,131,808 -\$1,110,828 -\$1,710,828	2	Electric Generation Costs	696'692\$	\$319,893	\$332,888	\$379,530	\$425,832
openses (Direct) \$3,487,798 \$4,638,345 \$4,870,262 openses (Distributed from sector penses (Distributed from sector level) \$81,789 \$136,769 \$144,602 svel) \$54,325 \$90,998 \$94,949 svel) \$1,311,579 \$1,560,298 \$1,638,313 sibuted from sector level) \$187,319,572 \$269,590 \$270,580 um of Rows 4-8) \$5,123,433 \$5,695,970 \$7,018,707 -\$1,418,808 -\$1,710,828 -\$1,784,308 -	rogram Implementation Expenses (Direct) \$3,487,798 \$4,638,345 \$4,870,262 svel) \$136,769 \$144,602 \$144,602 rogram Implementation Expenses (OER and EERMC istributed from portfolio level) \$54,325 \$90,998 \$94,949 ustomer Contribution by cort of energy efficiency (sum of Rows 4-8) \$13,11,579 \$1,560,298 \$1,638,313 hareholder Incentive (Distributed from sector level) \$187,962 \$269,560 \$270,580 ost of energy efficiency (sum of Rows 4-8) \$5,123,483 \$5,695,970 \$1,710,828 -\$1,784,308	3	Cost of supply (sum of Rows 1-2)	\$3,704,645	\$4,985,142	\$5,234,399	\$5,993,981	\$6,725,248
openses (Distributed from sector \$81,789 \$136,769 \$144,602 openses (OER and EERMC \$54,325 \$90,998 \$94,949 evel) \$1,311,579 \$1,560,298 \$1,638,313 ibuted from sector level) \$187,962 \$20,560 \$270,580 um of Rows 4-8) \$5,123,453 \$6,695,970 \$7,018,707 -\$4,718,808 -\$1,710,828 -\$1,784,308 -	rogram Implementation Expenses (Distributed from sector rogram Implementation Expenses (DER and EERMC svel) \$81,789 \$136,769 \$144,602 rogram Implementation Expenses (OER and EERMC sistibuted from portfolio level) \$54,325 \$90,998 \$94,949 ustomer Contribution branchise (Distributed from sector level) \$1,311,579 \$1,560,298 \$270,580 hareholder incentive (Distributed from sector level) \$5,123,453 \$6,695,970 \$7,018,707 ost of energy efficiency (sum of Rows 4-8) \$5,123,453 \$5,131,843,808 -\$1,710,828 -\$1,710,828	4	Program Implementation Expenses (Direct)	\$3,487,798	\$4,638,345	\$4,870,262	\$6,038,106	\$6,774,757
openses (OER and EERMC \$54,325 \$90,998 \$94,949 evel) \$1,311,579 \$1,560,298 \$1,638,313 ibuted from sector level) \$187,962 \$26,560 \$270,580 um of Rows 4-8) \$5,123,433 \$6,695,970 \$7,7018,70 -\$4,170,828 -\$1,784,308 . .	rogram Implementation Expenses (OER and EERM/C listributed from portfolio level) \$54,325 \$90,998 \$94,949 ustoner Contribution \$1,311,579 \$1,560,298 \$1,583,313 hareholder Incentive (Distributed from sector level) \$1,87,962 \$2,509,560 \$270,580 ost of energy efficiency (sum of Rows 4-8) \$5,123,453 \$6,695,970 \$7,018,707 ifference (Row 3 - Row 9) -\$1,418,808 -\$1,710,828 -\$1,784,308	2	Program Implementation Expenses (Distributed from sector level)	\$81,789	\$136,769	\$144,602	\$162,771	\$185,353
\$1,31,579 \$1,560,298 \$1,638,313 sibuted from sector level) \$187,962 \$569,560 \$270,580 sibuted from sector level) \$51,23,453 \$56,695,970 \$7,018,707 sibuted from sector level) \$51,123,453 \$56,695,970 \$1,784,308 \$1,78	ustomer Contribution \$1,350,298 \$1,638,313 hareholder Incentive (Distributed from sector level) \$187,962 \$269,560 \$270,580 ost of energy efficiency (sum of Rows 4-8) \$5,123,453 \$6,695,970 \$7,018,707 vifference (Row 3 - Row 9) -\$1,710,828 -\$1,710,828 -\$1,784,308	9	Program Implementation Expenses (OER and EERMC Distributed from portfolio level)	\$54,325	\$90,998	\$94,949	\$122,877	\$136,943
ibuted from sector level) \$187,962 \$269,560 \$270,580 rm of Rows 4-8) \$51,123,453 \$6,695,970 \$7,018,707 \$-51,418,808 \$-51,710,828 \$-51,784,308 \$-51,7	hareholder Incentive (Distributed from sector level) \$187,962 \$269,560 \$270,580 ost of energy efficiency (sum of Rows 4-8) \$5,123,453 \$6,695,970 \$7,018,707 ifference (Row 3 - Row 9) -\$1,710,828 -\$1,710,828 -\$1,784,308	7	Customer Contribution	\$1,311,579	\$1,560,298	\$1,638,313	\$1,064,493	\$1,194,362
um of Rows 4-8) \$5,123,453 \$6,695,970 \$7,018,707 -51,418,808 -\$1,710,828 -\$1,784,308	ost of energy efficiency (sum of Rows 4-8) \$5,123,453 \$6,695,970 \$7,018,707 energy efficiency (Row 3 - Row 9) \$-\$1,710,828 \$-\$1,710,828 \$-\$1,784,308	8	Shareholder Incentive (Distributed from sector level)	\$187,962	\$269,560	\$270,580	\$297,897	\$300,091
-\$1,418,808 -\$1,710,828 -\$1,784,308	ifference (Row 3 - Row 9) -\$1,718,808 -\$1,710,828 -\$1,784,308	9	Cost of energy efficiency (sum of Rows 4-8)	\$5,123,453	\$6,695,970	\$7,018,707	\$7,686,144	\$8,591,506
	Notes:	1	Difference (Row 3 - Row 9)	-\$1,418,808	-\$1,710,828	-\$1,784,308	-\$1,692,163	-\$1,866,258

(1) Table E-6, sum of Energy columns "Winter Peak, "Winter Off-Peak", "Summer Peak" and "Summer Off-Peak."

(2) Table E-6, Capacity column "Summer Generation.

(4) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Program Implementation Expenses."

(5) Some costs are only at the sector level. They are allocated to programs for the purpose of this analysis by multiplying those sector level costs by the ratio of the

(6) Some costs are only at the portfolio level (EERMC and OER costs). They are allocated to programs for the purpose of this analysis by multiplying those portfolio level costs by the ratio of the program's direct programmatic costs to the all direct programmatic costs. program's direct programmatic costs to the sector direct programmatic costs.

(7) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Customer Contribution."

(8) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Shareholder Incentive." This category is allocated to programs for the purpose of this analysis by multiplying the sector level shareholder incentive by the ratio of the program's direct programmatic costs to the sector direct programmatic costs. Omits the

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	Electric Energy	2021	2022	22	2023	23
			Base Case	High Scenario	Base Case	High Scenario
Ref	е	q	v	ъ	a	ţ
1	Electric Energy Costs	\$929,721	\$871,907	\$915,502	\$990,083	\$1,110,873
7	Electric Generation Costs	\$285,865	\$298,446	\$313,369	\$360,708	\$404,714
æ	Elecric Transmission Capacity Costs	\$374,060	\$374,058	\$392,761	\$433,165	\$486,01
4	Electric Distribution Capacity Cost	\$324,838	\$324,836	\$341,078	\$376,165	\$422,057
2	Natural Gas Costs	0\$	0\$	0\$	0\$	0\$
9	Fuel Costs	\$10,730,531	\$11,925,530	\$12,521,807	\$14,741,581	\$16,540,058
7	Income Eligible Rate Discount	0\$	0\$	0\$	0\$	0\$
∞	Arrearages	0\$	0\$	0\$	0\$	0\$
9	Price Effects	\$619,590	\$498,887	\$523,831	\$492,181	\$552,228
10	10 Non-embedded Greenhouse Gas Reduction Costs	\$2,749,665	\$2,926,404	\$3,072,724	\$3,515,109	\$3,943,954
11	11 Non-embedded Nitrous Oxide (NOx Costs)	\$347,309	\$376,057	\$394,860	\$456,340	\$512,013
12	12 Reliability Costs	\$1,981	\$1,523	\$1,599	\$1,444	\$1,620
13	13 Cost of supply (Sum of rows 1-12)	\$16,363,560	\$17,597,648	\$18,477,531	\$21,366,775	\$23,973,528
14	14 Program Implementation Expenses (Direct)	\$17,033,340	\$18,008,677	\$18,909,111	\$21,716,295	\$24,365,689
15	Program Implementation Expenses (Distributed from sector level)	\$399,432	\$531,014	\$561,428	\$585,411	\$666,631
16	Program Implementation Expenses (OER and EERMC					
2	Distributed from portfolio level)	\$265,307	\$353,308	\$368,647	\$441,932	\$492,521
17	Customer Contribution	\$790,425	\$585,450	\$614,722	\$778,338	\$873,295
18	18 Shareholder Incentive (Distributed from sector level)	\$917,951	\$1,046,583	\$1,050,546	\$1,071,399	\$1,079,291
19	19 Cost of energy efficiency (Sum of rows 14-18)	\$19,406,455	\$20,525,032	\$21,504,454	\$24,593,375	\$27,477,428
20	20 Difference (Row 13 - Row 19)	-\$3,042,895	-\$2,927,384	-\$3,026,924	-\$3,226,600	906'803'89

All values are from the Electric Benefit-Cost Model, 2021-2023 Plan. For 2021, Row (1) equal to Table E-6, sum of Energy columns "Winter Peak, "Winter Off-Peak", "Summer Peak" and "Summer Off-Peak

(2) Table E-6, Capacity column "Summer Generation."

(3) Table E-6 , Capacity column "Trans."

(4) Table E-6 , Capacity column "Dist."

(5) Table E-6, Non-electric column "Natural Gas." less Gas DRIPE included in that column

(6) Table E-6, sum of Non-electric columns "Oil", "Other Resource." and calculation from Electric Benefit-Cost Model, 2021-2023 Plan

(7) Calculations from Electric Benefit-Cost Model, 2021-2023 Plan

(8) Calculations from Electric Benefit-Cost Model, 2021-2023 Plan

(9) Table E-6, sum of Capacity column "Capacity DRIPE" and Energy column "Energy DRIPE." and calculation from Electric Benefit-Cost Model, 2021-2023 Plan for "Gas

(10) Table E-6, Societal column "Carbon."

(11) Table E-6, Societal column "NOx."

(15) Some costs are only at the sector level. They are allocated to programs for the purpose of this analysis by multiplying those sector level costs by the ratio of the (14) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Program Implementation Expenses." (12) Table E-6, Capacity column "Reliability."

(16) Some costs are only at the portfolio level (EERMC and OER costs). They are allocated to programs for the purpose of this analysis by multiplying those portfolio

level costs by the ratio of the program's direct programmatic costs to the all direct programmatic costs.

program's direct programmatic costs to the sector direct programmatic costs.

(17) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Customer Contribution."

(18) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Shareholder Incentive." This category is allocated to programs for the purpose of this analysis by multiplying the sector level shareholder incentive by the ratio of the program's direct programmatic costs. Omits the Connected Solutions programs that are not eligible for this shareholder incentive

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	Calculation of cost of supply compared to cost of energy efficiency for Electric EnergyWise Single Family Program- Part 2	st of energy efficien	cy for Electric Energ	yWise Single Family F	Program- Part 2	
	Electric Energy	2021	2022	77	2023	g
			Base Case	High Scenario	Base Case	High Scenario
Ref	В	q	J	ъ	ə	ţ
1	Electric Energy Costs	\$929,721	\$871,907	\$915,502	\$990,083	\$1,110,873
7	Electric Generation Costs	\$285,865	\$298,446	\$313,369	\$360,708	\$404,714
٣	Elecric Transmission Capacity Costs	\$374,060	\$374,058	\$392,761	\$433,165	\$486,011
4	Electric Distribution Capacity Cost	\$324,838	\$324,836	\$341,078	\$376,165	\$422,057
2	Price Effects	\$619,590	\$498,887	\$523,831	\$492,181	\$552,228
9	Cost of supply (Sum of Rows 1-5)	\$2,534,073	\$2,368,134	\$2,486,541	\$2,652,302	\$2,975,883
7	Program Implementation Expenses (Direct)	\$17,033,340	\$18,008,677	\$18,909,111	\$21,716,295	\$24,365,689
∞	Program Implementation Expenses (Distributed from sector level)	\$399,432	\$531,014	\$561,428	\$585,411	\$666,631
6	Program Implementation Expenses (OER and EERMC Distributed from portfolio level)	\$265,307	\$353,308	\$368,647	\$441,932	\$492,521
10	10 Customer Contribution	\$790,425	\$585,450	\$614,722	\$778,338	\$873,295
11	11 Shareholder Incentive (Distributed from sector level)	\$917,951	\$1,046,583	\$1,050,546	\$1,071,399	\$1,079,291
13	13 Cost of energy efficiency (Sum of Rows 7-11)	\$19,406,455	\$20,525,032	\$21,504,454	\$24,593,375	\$27,477,428
14	14 Difference (Row 6 - Row 13)	-\$16,872,382	-\$18,156,898	-\$19,017,913	-\$21,941,073	-\$24,501,545

(1) Table E-6, sum of Energy columns "Winter Peak, "Winter Off-Peak", "Summer Peak" and "Summer Off-Peak."

(2) Table E-6 , Capacity column "Summer Generation." (3) Table E-6 , Capacity column "Trans."

(4) Table E-6, Capacity column "Dist."

(5) Table E-6 , sum of Capacity column "Capacity DRIPE" and Energy column "Energy DRIPE."

(7) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Program Implementation Expenses."

(8) Some costs are only at the sector level. They are allocated to programs for the purpose of this analysis by multiplying those sector level costs by the ratio of the program's direct programmatic costs to the sector direct programmatic costs.

(9) Some costs are only at the portfolio level (EERMC and OER costs). They are allocated to programs for the purpose of this analysis by multiplying those portfolio level costs by the ratio of the program's direct programmatic costs to the all direct programmatic costs.

(10) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Customer Contribution."

(11) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Shareholder Incentive." This category is allocated to programs for the purpose of this analysis by multiplying the sector level shareholder incentive by the ratio of the program's direct programmatic costs to the sector direct programmatic costs. Omits the

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	Calculation of cost of supply compared to cost of energy efficiency for Electric EnergyWise Single Family Program- Part 3	ost of energy efficien	icy for Electric Energ	yWise Single Family	Program- Part 3	
	Electric Energy	2021	2022	22	2023	13
			Base Case	High Scenario	Base Case	High Scenario
Ref	В	q	C	р	ə	f
1	Electric Energy Costs	\$929,721	\$871,907	\$915,502	\$990,083	\$1,110,873
7	Electric Generation Costs	\$285,865	\$298,446	\$313,369	\$360,708	\$404,714
3	Cost of supply (sum of Rows 1-2)	\$1,215,586	\$1,170,353	\$1,228,871	\$1,350,791	\$1,515,588
4	Program Implementation Expenses (Direct)	\$17,033,340	\$18,008,677	\$18,909,111	\$21,716,295	\$24,365,689
2	Program Implementation Expenses (Distributed from sector level)	\$399,432	\$531,014	\$561,428	\$585,411	\$666,631
9	Program Implementation Expenses (OER and EERMC Distributed from portfolio level)	\$265,307	\$353,308	\$368,647	\$441,932	\$492,521
7	Customer Contribution	\$790,425	\$585,450	\$614,722	\$778,338	\$873,295
∞	Shareholder Incentive (Distributed from sector level)	\$917,951	\$1,046,583	\$1,050,546	\$1,071,399	\$1,079,291
6	Cost of energy efficiency (sum of Rows 4-8)	\$19,406,455	\$20,525,032	\$21,504,454	\$24,593,375	\$27,477,428
10	10 Difference (Row 3 - Row 9)	-\$18,190,869	-\$19,354,679	-\$20,275,583	-\$23,242,584	-\$25,961,840
Notes	es:					

(1) Table E-6, sum of Energy columns "Winter Peak, "Winter Off-Peak", "Summer Peak" and "Summer Off-Peak."

(2) Table E-6, Capacity column "Summer Generation."

(4) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Program Implementation Expenses."

(5) Some costs are only at the sector level. They are allocated to programs for the purpose of this analysis by multiplying those sector level costs by the ratio of the program's direct programmatic costs to the sector direct programmatic costs.

(6) Some costs are only at the portfolio level (EERMC and OER costs). They are allocated to programs for the purpose of this analysis by multiplying those portfolio level costs by the ratio of the program's direct programmatic costs to the all direct programmatic costs.

(7) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Customer Contribution."

(8) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Shareholder Incentive." This category is allocated to programs for the purpose of this analysis by multiplying the sector level shareholder incentive by the ratio of the program's direct programmatic costs to the sector direct programmatic costs. Omits the Connected Solutions programs that are not eligible for this shareholder incentive

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	Electric Energy	2021	20	2022	2023	13
			Base Case	High Scenario	Base Case	High Scenario
Ref	В	q	v	ъ	a	ţ
1	Electric Energy Costs	\$508,392	\$490,228	\$514,740	\$448,243	\$502,929
2	Electric Generation Costs	\$223,862	\$225,812	\$237,102	\$223,990	\$251,31
3	Elecric Transmission Capacity Costs	\$281,140	\$275,869	\$289,662	\$263,044	\$295,136
4	Electric Distribution Capacity Cost	\$244,145	\$239,567	\$251,546	\$228,431	\$256,299
5	Natural Gas Costs	0\$	0\$	0\$	0\$	0\$
9	Fuel Costs	\$645,705	\$655,028	\$687,779	\$662,982	\$743,866
7	Income Eligible Rate Discount	0\$	0\$	0\$	0\$	0\$
8	Arrearages	0\$	0\$	0\$	0\$	0\$
6	Price Effects	\$251,166	\$224,563	\$235,791	\$159,836	\$179,336
10	10 Non-embedded Greenhouse Gas Reduction Costs	\$364,466	\$350,737	\$368,274	\$321,886	\$361,156
11	11 Non-embedded Nitrous Oxide (NOx Costs)	\$30,144	\$29,652	\$31,134	\$28,454	\$31,925
12	12 Reliability Costs	\$1,014	\$920	996\$	689\$	\$773
13	13 Cost of supply (Sum of rows 1-12)	\$2,550,032	\$2,492,375	\$2,616,994	\$2,337,555	\$2,622,738
14	14 Program Implementation Expenses (Direct)	\$3,056,836	\$3,581,305	\$3,760,370	\$3,523,478	\$3,953,343
15	Program Implementation Expenses (Distributed from sector level)	\$71,683	\$105,600	\$111,649	\$94,983	\$108,161
16	Program Implementation Expenses (OER and EERMC					
2	Distributed from portfolio level)	\$47,612	\$70,261	\$73,311	\$71,704	\$79,912
17	Customer Contribution	\$532,000	\$332,000	\$348,600	\$332,000	\$372,504
18	18 Shareholder Incentive (Distributed from sector level)	\$164,737	\$208,129	\$208,917	\$173,835	\$175,115
19	19 Cost of energy efficiency (Sum of rows 14-18)	\$3,872,868	\$4,297,295	\$4,502,847	\$4,196,000	\$4,689,036
20	20 Difference (Row 13 - Row 19)	-\$1,322,836	-\$1,804,920	-\$1,885,853	-\$1,858,444	-\$2,066,298

All values are from the Electric Benefit-Cost Model, 2021-2023 Plan. For 2021, Row (1) equal to Table E-6, sum of Energy columns "Winter Peak, "Winter Off-Peak", "Summer Peak" and "Summer Off-Peak

(2) Table E-6, Capacity column "Summer Generation."

(3) Table E-6 , Capacity column "Trans."

(4) Table E-6 , Capacity column "Dist."

(5) Table E-6, Non-electric column "Natural Gas." less Gas DRIPE included in that column

(6) Table E-6, sum of Non-electric columns "Oil", "Other Resource." and calculation from Electric Benefit-Cost Model, 2021-2023 Plan

(7) Calculations from Electric Benefit-Cost Model, 2021-2023 Plan

(8) Calculations from Electric Benefit-Cost Model, 2021-2023 Plan

(9) Table E-6, sum of Capacity column "Capacity DRIPE" and Energy column "Energy DRIPE." and calculation from Electric Benefit-Cost Model, 2021-2023 Plan for "Gas

(10) Table E-6, Societal column "Carbon."

(11) Table E-6, Societal column "NOx."

(15) Some costs are only at the sector level. They are allocated to programs for the purpose of this analysis by multiplying those sector level costs by the ratio of the (14) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Program Implementation Expenses." (12) Table E-6, Capacity column "Reliability."

(16) Some costs are only at the portfolio level (EERMC and OER costs). They are allocated to programs for the purpose of this analysis by multiplying those portfolio

program's direct programmatic costs to the sector direct programmatic costs.

level costs by the ratio of the program's direct programmatic costs to the all direct programmatic costs.

(18) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Shareholder Incentive." This category is allocated to programs for the purpose of this analysis by multiplying the sector level shareholder incentive by the ratio of the program's direct programmatic costs. Omits the (17) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Customer Contribution." Connected Solutions programs that are not eligible for this shareholder incentive

Attachment PUC 1-22-18 RIPUC Docket No. 5076

	Calculation of cost of supply compared to cost of energy efficiency for Electric EnergyWise Multifamily Program- Part 2	ost of energy efficie	ncy for Electric Ener	gyWise Multifamily P	rogram- Part 2	
	Electric Energy	2021	20	2022	2023	13
			Base Case	High Scenario	Base Case	High Scenario
Ref	е	q	J	ъ	Ð	ţ
1	Electric Energy Costs	\$508,392	\$490,228	\$514,740	\$448,243	\$502,929
7	Electric Generation Costs	\$223,862	\$225,812	\$237,102	\$223,990	\$251,317
٣	Elecric Transmission Capacity Costs	\$281,140	\$275,869	\$289,662	\$263,044	\$295,136
4	Electric Distribution Capacity Cost	\$244,145	\$239,567	\$251,546	\$228,431	\$256,299
2	Price Effects	\$251,166	\$224,563	\$235,791	\$159,836	\$179,336
9	Cost of supply (Sum of Rows 1-5)	\$1,508,704	\$1,456,039	\$1,528,841	\$1,323,544	\$1,485,017
7	Program Implementation Expenses (Direct)	\$3,056,836	\$3,581,305	\$3,760,370	\$3,523,478	\$3,953,343
8	Program Implementation Expenses (Distributed from sector level)	\$71,683	\$105,600	\$111,649	\$94,983	\$108,161
c	Program Implementation Expenses (OER and EERMC					
'n	Distributed from portfolio level)	\$47,612	\$70,261	\$73,311	\$71,704	\$79,912
10	10 Customer Contribution	\$532,000	\$332,000	\$348,600	\$332,000	\$372,504
11	11 Shareholder Incentive (Distributed from sector level)	\$164,737	\$208,129	\$208,917	\$173,835	\$175,115
13	13 Cost of energy efficiency (Sum of Rows 7-11)	\$3,872,868	\$4,297,295	\$4,502,847	\$4,196,000	\$4,689,036
14	14 Difference (Row 6 - Row 13)	-\$2,364,165	-\$2,841,256	-\$2,974,006	-\$2,872,456	-\$3,204,019
NIOtor						

(1) Table E-6, sum of Energy columns "Winter Peak, "Winter Off-Peak", "Summer Peak" and "Summer Off-Peak."

(2) Table E-6 , Capacity column "Summer Generation." (3) Table E-6 , Capacity column "Trans."

(4) Table E-6 , Capacity column "Dist."

(5) Table E-6, sum of Capacity column "Capacity DRIPE" and Energy column "Energy DRIPE."

(7) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Program Implementation Expenses."

(8) Some costs are only at the sector level. They are allocated to programs for the purpose of this analysis by multiplying those sector level costs by the ratio of the program's direct programmatic costs to the sector direct programmatic costs.

(9) Some costs are only at the portfolio level (EERMC and OER costs). They are allocated to programs for the purpose of this analysis by multiplying those portfolio level costs by the ratio of the program's direct programmatic costs to the all direct programmatic costs.

(10) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Customer Contribution."

(11) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Shareholder Incentive." This category is allocated to programs for the purpose of this analysis by

multiplying the sector level shareholder incentive by the ratio of the program's direct programmatic costs to the sector direct programmatic costs. Omits the

a/b/a National Grid RIPUC Docket No. 5076 Attachment PUC 1-22-18

	Calculation or cost or supply comp	מובת נס כם			,	carcalation of cost of supply compared to cost of circles of circl
	Electric Energy	2021		50	2022	2022 2023
				Base Case	Base Case High Scenario	
Ref	CS	q		J	р	e p
_	Electric Energy Costs	\$508,392		\$490,228	\$490,228 \$514,740	
٠. ا	2 Electric Generation Costs	\$223,862	\$	225,812	\$225,812 \$237,102	
۱ 🗻	3 Cost of supply (sum of Rows 1-2)	\$732,254	2 \$	16,040	\$716,040 \$751,842	
4	Program Implementation Expenses (Direct)	\$3,056,836	33,58	31,305	\$3,581,305 \$3,760,370	
١.	Program Implementation Expenses (Distributed from sector	\$71,683	\$10	9,600	\$105,600	\$111,649 \$94,983
	riogiani implementation cypenses (Och and Cenvilo		4			
	Distributed from portfolio level)	\$47,612	5.	\$70,261	70,261 \$73,311	
	7 Customer Contribution	\$532,000	\$33	2,000	\$332,000 \$348,600	
8	Shareholder Incentive (Distributed from sector level)	\$164,737	\$20	8,129	\$208,129 \$208,917	
٦.	9 Cost of energy efficiency (sum of Rows 4-8)	\$3,872,868	\$4,28	77,295	\$4,297,295 \$4,502,847	
0	10 Difference (Row 3 - Row 9)	-\$3,140,615	-\$3,5	81,255	\$3,581,255 -\$3,751,005	81,255 - \$3,751,005 - \$3,523,767

Notes:

(1) Table E-6, sum of Energy columns "Winter Peak, "Winter Off-Peak", "Summer Peak" and "Summer Off-Peak."

(2) Table E-6, Capacity column "Summer Generation.

(4) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Program Implementation Expenses."

(5) Some costs are only at the sector level. They are allocated to programs for the purpose of this analysis by multiplying those sector level costs by the ratio of the

(6) Some costs are only at the portfolio level (EERMC and OER costs). They are allocated to programs for the purpose of this analysis by multiplying those portfolio level program's direct programmatic costs to the sector direct programmatic costs.

costs by the ratio of the program's direct programmatic costs to the all direct programmatic costs.

(7) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Customer Contribution."

(8) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Shareholder Incentive." This category is allocated to programs for the purpose of this analysis by multiplying the sector level shareholder incentive by the ratio of the program's direct programmatic costs to the sector direct programmatic costs. Omits the

Attachment PUC 1-22-19 RIPUC Docket No. 5076

	Electric Energy	2021	2022	22	2023	23
			Base Case	High Scenario	Base Case	High Scenario
Ref	е	q	v	ъ	e	f
1	Electric Energy Costs	\$1,781,808	\$1,649,552	\$1,649,552	\$1,639,085	\$1,639,085
2	Electric Generation Costs	\$251,111	\$241,265	\$241,265	\$246,293	\$246,293
3	Elecric Transmission Capacity Costs	\$405,538	\$405,538	\$405,538	\$405,538	\$405,538
4	Electric Distribution Capacity Cost	\$352,173	\$352,173	\$352,173	\$352,173	\$352,173
5	Natural Gas Costs	0\$	0\$	0\$	0\$	0\$
9	Fuel Costs	0\$	0\$	0\$	0\$	0\$
7	Income Eligible Rate Discount	0\$	0\$	0\$	0\$	
8	Arrearages	0\$	0\$	0\$	0\$	0\$
6	Price Effects	\$2,207,674	\$2,207,674	\$2,207,674	\$2,207,674	\$2,207,674
10	10 Non-embedded Greenhouse Gas Reduction Costs	\$842,841	\$832,141	\$832,141	\$826,338	\$826,338
11	11 Non-embedded Nitrous Oxide (NOx Costs)	\$37,889	\$37,889	\$37,889	\$37,889	\$37,889
12	12 Reliability Costs	\$10,087	\$10,087	\$10,087	\$10,087	\$10,087
13	13 Cost of supply (Sum of rows 1-12)	\$5,889,121	\$5,736,318	\$5,736,318	\$5,725,077	\$5,725,077
14	14 Program Implementation Expenses (Direct)	\$2,641,681	\$2,624,008	\$2,624,008	\$2,624,004	\$2,624,004
15	Program Implementation Expenses (Distributed from sector level)	\$61,947	\$77,373	\$77,909	\$70,736	\$71,791
16	Program Implementation Expenses (OER and EERMC					
2	Distributed from portfolio level)	\$41,146	\$51,480	\$51,157	\$53,399	\$53,041
17	Customer Contribution	0\$	\$2,540,729	\$2,540,729	\$2,540,729	\$2,540,729
18	18 Shareholder Incentive (Distributed from sector level)	\$142,364	\$152,496	\$145,784	\$129,458	\$116,232
19	19 Cost of energy efficiency (Sum of rows 14-18)	\$2,887,139	\$5,446,086	\$5,439,587	\$5,418,327	\$5,405,797
20	20 Difference (Row 13 - Row 19)	\$3,001,982	\$290,233	\$296,731	\$306,751	\$319,280

All values are from the Electric Benefit-Cost Model, 2021-2023 Plan. For 2021, Row (1) equal to Table E-6, sum of Energy columns "Winter Peak, "Winter Off-Peak",

(2) Table E-6, Capacity column "Summer Generation."

"Summer Peak" and "Summer Off-Peak

(3) Table E-6 , Capacity column "Trans."

(4) Table E-6 , Capacity column "Dist."

(5) Table E-6, Non-electric column "Natural Gas." less Gas DRIPE included in that column

(6) Table E-6, sum of Non-electric columns "Oil", "Other Resource." and calculation from Electric Benefit-Cost Model, 2021-2023 Plan

(7) Calculations from Electric Benefit-Cost Model, 2021-2023 Plan

(8) Calculations from Electric Benefit-Cost Model, 2021-2023 Plan

(9) Table E-6, sum of Capacity column "Capacity DRIPE" and Energy column "Energy DRIPE." and calculation from Electric Benefit-Cost Model, 2021-2023 Plan for "Gas

(10) Table E-6, Societal column "Carbon."

(11) Table E-6, Societal column "NOx."

(14) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Program Implementation Expenses." (12) Table E-6, Capacity column "Reliability."

(15) Some costs are only at the sector level. They are allocated to programs for the purpose of this analysis by multiplying those sector level costs by the ratio of the program's direct programmatic costs to the sector direct programmatic costs.

(16) Some costs are only at the portfolio level (EERMC and OER costs). They are allocated to programs for the purpose of this analysis by multiplying those portfolio

level costs by the ratio of the program's direct programmatic costs to the all direct programmatic costs.

18) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Shareholder Incentive." This category is allocated to programs for the purpose of this analysis by multiplying the sector level shareholder incentive by the ratio of the program's direct programmatic costs. Omits the (17) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Customer Contribution." Connected Solutions programs that are not eligible for this shareholder incentive

Attachment PUC 1-22-19 RIPUC Docket No. 5076 d/b/a National Grid

\$405,538 \$4,850,763 \$1,639,085 \$352,173 \$2,624,004 High Scenario 2023 \$4,850,763 \$1,639,085 \$246,293 \$352,173 \$2,207,674 \$2,624,004 \$405,5 Calculation of cost of supply compared to cost of energy efficiency for Electric Home Energy Reports Program-Part 2 Base Case \$4,856,201 \$2,624,008 \$1,649,55 \$352,173 \$2,207,67 High Scenario \$405,5 \$405,538 \$352,173 \$1,649,552 \$4,856,201 \$2,624,008 Base Case \$1,781,808 \$405,538 \$352,173 \$2,207,674 \$4,998,304 \$251,111 \$2,641,681 2021 Program Implementation Expenses (Direct) **Electric Energy** Elecric Transmission Capacity Costs **Electric Distribution Capacity Cost** Cost of supply (Sum of Rows 1-5) Electric Generation Costs **Electric Energy Costs**

		•				
	13 Cost of energy efficiency (Sum of Rows 7-11)	1)	\$2,887,139	\$5,446,086	\$5,439,587	
	14 Difference (Row 6 - Row 13)		\$2,111,165	-\$589,884	98£,583,386	
- ۱	Notes:					
•	0 5 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 550		0.50	100	

\$5,405,797

-\$567,563

\$71,791

\$70,736

\$77,909

\$77,373

\$61,947

Program Implementation Expenses (Distributed from sector

Program Implementation Expenses (OER and EERMC

evel) **∞** 6 19

Distributed from portfolio level)

Customer Contribution

Shareholder Incentive (Distributed from sector level)

\$53,041 \$116,232

\$53,399

\$51,157 \$2,540,729 \$145,784

\$51,480

\$41,146 \$142,364

\$2,540,729 \$152,496

\$2.540.729

\$2,540,729 \$129,458 \$5,418,327

> (1) Table E-6, sum of Energy columns "Winter Peak, "Winter Off-Peak", "Summer Peak" and "Summer Off-Peak." (2) Table E-6 , Capacity column "Summer Generation."

(3) Table E-6 , Capacity column "Trans." (4) Table E-6 , Capacity column "Dist."

(5) Table E-6 , sum of Capacity column "Capacity DRIPE" and Energy column "Energy DRIPE."

(7) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Program Implementation Expenses."

(8) Some costs are only at the sector level. They are allocated to programs for the purpose of this analysis by multiplying those sector level costs by the ratio of the program's direct programmatic costs to the sector direct programmatic costs.

(9) Some costs are only at the portfolio level (EERMC and OER costs). They are allocated to programs for the purpose of this analysis by multiplying those portfolio level

costs by the ratio of the program's direct programmatic costs to the all direct programmatic costs. (10) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Customer Contribution.

(11) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Shareholder Incentive." This category is allocated to programs for the purpose of this analysis by

multiplying the sector level shareholder incentive by the ratio of the program's direct programmatic costs. Omits the Connected Solutions programs that are not eligible for this shareholder incentive

Attachment PUC 1-22-19 RIPUC Docket No. 5076 d/b/a National Grid

\$71,791 \$53,041 \$1,885,378 \$2,624,004 \$1,639,085 \$246,293 High Scenario 2023 \$246,293 **\$1,885,378** \$53,399 \$2,624,004 \$70,736 \$1,639,085 Base Case Calculation of cost of supply compared to cost of energy efficiency for Electric Home Energy Reports Program-Part 3 \$77,909 \$51,157 \$1,890,816 \$2,624,008 \$241,265 \$1,649,55 High Scenario \$51,480 \$1,890,816 \$2,624,008 \$77,373 \$1,649,552 \$241,265 Base Case \$41,146 \$61,947 \$1,781,808 \$2,032,919 \$2,641,681 \$251,111 2021 Program Implementation Expenses (Distributed from sector Program Implementation Expenses (OER and EERMC Program Implementation Expenses (Direct) **Electric Energy** Cost of supply (sum of Rows 1-2) Distributed from portfolio level) Electric Generation Costs Electric Energy Costs level)

10 Difference (Row 3 - Row 9)

(1) Table E-6, sum of Energy columns "Winter Peak, "Winter Off-Peak", "Summer Peak" and "Summer Off-Peak."

-\$3,520,419

\$116,232 \$5,405,797

\$129,458 -\$3,532,948

\$145,784 -\$3,548,771

\$152,496 \$5,446,086

\$142,364 \$2,887,139 -\$854,220

Shareholder Incentive (Distributed from sector level)

Ŋ 9 Cost of energy efficiency (sum of Rows 4-8)

-\$3,555,269

\$5,439,587

\$5,418,327

(2) Table E-6, Capacity column "Summer Generation.

(4) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Program Implementation Expenses."

(5) Some costs are only at the sector level. They are allocated to programs for the purpose of this analysis by multiplying those sector level costs by the ratio of the

program's direct programmatic costs to the sector direct programmatic costs.

(6) Some costs are only at the portfolio level (EERMC and OER costs). They are allocated to programs for the purpose of this analysis by multiplying those portfolio level costs by the ratio of the program's direct programmatic costs to the all direct programmatic costs.

(7) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Customer Contribution."

(8) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Shareholder Incentive." This category is allocated to programs for the purpose of this analysis by multiplying the sector level shareholder incentive by the ratio of the program's direct programmatic costs to the sector direct programmatic costs. Omits the

The Narragansett Electric Company RIPUC Docket No. 5076 d/b/a National Grid

Attachment PUC 1-22-20

	Calculation of cost of supply compared to cost of energy efficiency for Electric Energy Star Lighting Program-Part 1	cost of energy effic	iency for Electric En	ergy Star Lighting Pro	gram- Part 1	
	Electric Energy	2021	2022	22	2023	23
			Base Case	High Scenario	Base Case	High Scenario
Ref	ю.	q	J	р	e	ţ
1	Electric Energy Costs	\$1,709,556	0\$	0\$	0\$	0\$
7	Electric Generation Costs	\$291,026	0\$	0\$	0\$	0\$
3	Elecric Transmission Capacity Costs	\$465,595	0\$	0\$	0\$	0\$
4	Electric Distribution Capacity Cost	\$404,328	0\$	0\$	0\$	0\$
2	Natural Gas Costs	-\$246,165	0\$	0\$	0\$	0\$
9	Fuel Costs	-\$445,162	0\$	0\$	0\$	\$0
7	Income Eligible Rate Discount	0\$	0\$	0\$	0\$	\$0
8	Arrearages	0\$	0\$	0\$	0\$	0\$
6	Price Effects	\$1,980,367	0\$	0\$	0\$	\$0
10	10 Non-embedded Greenhouse Gas Reduction Costs	\$631,793	0\$	0\$	0\$	0\$
11	11 Non-embedded Nitrous Oxide (NOx Costs)	\$10,661	0\$	0\$	0\$	\$0
12	Reliability Costs	\$7,429	0\$	0\$	0\$	\$0
13	13 Cost of supply (Sum of rows 1-12)	\$4,809,428	0\$	0\$	0\$	\$0
14	Program Implementation Expenses (Direct)	\$5,274,753	0\$	0\$	0\$	\$0
15	Program Implementation Expenses (Distributed from sector level)	\$123,693	0\$	0\$	0\$	\$0
16			•		•	
1	Distributed from portfolio level)	\$82,158	\$0	\$0	\$0	\$0
17	17 Customer Contribution	-\$1,012,870	\$0	\$0	\$0	\$0
18	Shareholder Incentive (Distributed from sector level)	\$284,264	0\$	0\$	0\$	\$0
19	19 Cost of energy efficiency (Sum of rows 14-18)	\$4,751,998	\$0	\$0	\$0	\$0
20	20 Difference (Row 13 - Row 19)	\$57,430	\$0	\$0	\$0	\$0
Not	Notes:					

All values are from the Electric Benefit-Cost Model, 2021-2023 Plan. For 2021, Row (1) equal to Table E-6, sum of Energy columns "Winter Peak, "Winter Off-Peak",

(2) Table E-6, Capacity column "Summer Generation."

(3) Table E-6 , Capacity column "Trans."

(4) Table E-6 , Capacity column "Dist."

(5) Table E-6, Non-electric column "Natural Gas." less Gas DRIPE included in that column

(6) Table E-6, sum of Non-electric columns "Oil", "Other Resource." and calculation from Electric Benefit-Cost Model, 2021-2023 Plan

(7) Calculations from Electric Benefit-Cost Model, 2021-2023 Plan

(8) Calculations from Electric Benefit-Cost Model, 2021-2023 Plan

(9) Table E-6, sum of Capacity column "Capacity DRIPE" and Energy column "Energy DRIPE." and calculation from Electric Benefit-Cost Model, 2021-2023 Plan for "Gas

(14) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Program Implementation Expenses.' (12) Table E-6, Capacity column "Reliability." (10) Table E-6, Societal column "Carbon." (11) Table E-6, Societal column "NOx."

(15) Some costs are only at the sector level. They are allocated to programs for the purpose of this analysis by multiplying those sector level costs by the ratio of the

16) Some costs are only at the portfolio level (EERMC and OER costs). They are allocated to programs for the purpose of this analysis by multiplying those portfolio

program's direct programmatic costs to the sector direct programmatic costs.

level costs by the ratio of the program's direct programmatic costs to the all direct programmatic costs.

(18) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Shareholder Incentive." This category is allocated to programs for the purpose of this analysis by multiplying the sector level shareholder incentive by the ratio of the program's direct programmatic costs. Omits the (17) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Customer Contribution."

Connected Solutions programs that are not eligible for this shareholder incentive

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Attachment PUC 1-22-20 RIPUC Docket No. 5076

	Electric Energy	2021	20	2022	20	2023
			Base Case	High Scenario	Base Case	High Scenario
Ref	го	q	3	ъ	a	ţ
1	Electric Energy Costs	\$1,709,556	0\$	0\$	0\$	0\$
7	Electric Generation Costs	\$291,026	0\$	0\$	0\$	0\$
8	Elecric Transmission Capacity Costs	\$465,595	0\$	0\$	0\$	0\$
4	Electric Distribution Capacity Cost	\$404,328	0\$	0\$	0\$	0\$
2	Price Effects	\$1,994,675	0\$	0\$	0\$	0\$
9	Cost of supply (Sum of Rows 1-5)	\$4,865,180	0\$	0\$	0\$	0\$
7	Program Implementation Expenses (Direct)	\$5,274,753	0\$	0\$	0\$	0\$
8	Program Implementation Expenses (Distributed from sector level)	\$123,693	\$0	0\$	0\$	0\$
٥	Program Implementation Expenses (OER and EERMC					
,	Distributed from portfolio level)	\$82,158	\$0	\$0	\$0	\$0
10	Customer Contribution	-\$1,012,870	\$0	0\$	0\$	0\$
11	11 Shareholder Incentive (Distributed from sector level)	\$284,264	\$0	0\$	\$0	0\$
13	13 Cost of energy efficiency (Sum of Rows 7-11)	\$4,751,998	0\$	0\$	0\$	0\$
14	14 Difference (Row 6 - Row 13)	\$113,181	0\$	0\$	0\$	0\$

(1) Table E-6, sum of Energy columns "Winter Peak, "Winter Off-Peak", "Summer Peak" and "Summer Off-Peak."

(2) Table E-6, Capacity column "Summer Generation."

(3) Table E-6 , Capacity column "Trans." (4) Table E-6 , Capacity column "Dist."

(5) Table E-6 , sum of Capacity column "Capacity DRIPE" and Energy column "Energy DRIPE."

(7) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Program Implementation Expenses."

(8) Some costs are only at the sector level. They are allocated to programs for the purpose of this analysis by multiplying those sector level costs by the ratio of the program's direct programmatic costs to the sector direct programmatic costs.

(9) Some costs are only at the portfolio level (EERMC and OER costs). They are allocated to programs for the purpose of this analysis by multiplying those portfolio level costs by the ratio of the program's direct programmatic costs to the all direct programmatic costs.

(10) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Customer Contribution."

(11) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Shareholder Incentive." This category is allocated to programs for the purpose of this analysis by multiplying the sector level shareholder incentive by the ratio of the program's direct programmatic costs to the sector direct programmatic costs. Omits the

Attachment PUC 1-22-20 RIPUC Docket No. 5076 d/b/a National Grid

	Calculation of cost of supply compared to cost of energy efficiency for Electric Energy Star Lighting Program- Part 3	cost of energy effic	ency tor Electric En	ergy star Lignung Pro	ogram- Part s	
	Electric Energy	2021	2022	77	2023	23
			Base Case	High Scenario	Base Case	High Scenario
Ref	a a	q	v	ъ	е	f
	1 Electric Energy Costs	\$1,709,556	0\$	0\$	0\$	0\$
	Electric Generation Costs	\$291,026	0\$	0\$	0\$	0\$
	3 Cost of supply (sum of Rows 1-2)	\$2,000,582	0\$	0\$	0\$	0\$
•	4 Program Implementation Expenses (Direct)	\$5,274,753	0\$	0\$	0\$	0\$
_,	Program Implementation Expenses (Distributed from sector level)	\$123,693	0\$	0\$	0\$	\$0
_	Program Implementation Expenses (OER and EERMC Distributed from portfolio level)	\$82,158	0\$	0\$	0\$	0\$
<u> </u>	7 Customer Contribution	-\$1,012,870	0\$	0\$	0\$	0\$
	8 Shareholder Incentive (Distributed from sector level)	\$284,264	0\$	0\$	0\$	0\$
	9 Cost of energy efficiency (sum of Rows 4-8)	\$4,751,998	0\$	0\$	0\$	0\$
1	10 Difference (Row 3 - Row 9)	-\$2,751,416	0\$	0\$	0\$	0\$
Ž	Notes:					

(1) Table E-6, sum of Energy columns "Winter Peak, "Winter Off-Peak", "Summer Peak" and "Summer Off-Peak."
(2) Table E-6, Capacity column "Summer Generation."

(4) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Program Implementation Expenses."

(5) Some costs are only at the sector level. They are allocated to programs for the purpose of this analysis by multiplying those sector level costs by the ratio of the program's direct programmatic costs to the sector direct programmatic costs.

(6) Some costs are only at the portfolio level (EERMC and OER costs). They are allocated to programs for the purpose of this analysis by multiplying those portfolio level costs by the ratio of the program's direct programmatic costs to the all direct programmatic costs.

(7) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Customer Contribution."

(8) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Shareholder Incentive." This category is allocated to programs for the purpose of this analysis by multiplying the sector level shareholder incentive by the ratio of the program's direct programmatic costs to the sector direct programmatic costs. Omits the

Attachment PUC 1-22-21 RIPUC Docket No. 5076

	Electric Energy	2021	70	2022	2023	23
			Base Case	High Scenario	Base Case	High Scenario
Ref	ь	q	v	ъ	Э	ţ
1	Electric Energy Costs	\$2,343,605	\$2,474,479	\$2,598,203	\$3,381,822	\$3,794,405
7	Electric Generation Costs	\$487,397	\$536,791	\$563,631	\$763,345	\$856,473
3	Elecric Transmission Capacity Costs	\$728,603	\$769,576	\$808,055	\$1,039,634	\$1,166,469
4	Electric Distribution Capacity Cost	\$632,727	\$668,308	\$701,723	\$902,829	\$1,012,974
2	Natural Gas Costs	\$15,490	\$16,273	\$17,087	\$22,415	\$25,150
9	Fuel Costs	\$46,151	\$49,161	\$51,619	\$68,632	\$77,005
7	Income Eligible Rate Discount	0\$	0\$	0\$	0\$	0\$
8	Arrearages	0\$	0\$	0\$	0\$	0\$
6	Price Effects	\$1,820,879	\$1,925,455	\$2,021,728	\$2,596,464	\$2,913,233
ន	10 Non-embedded Greenhouse Gas Reduction Costs	\$1,150,471	\$1,203,029	\$1,263,180	\$1,601,322	\$1,796,684
11	11 Non-embedded Nitrous Oxide (NOx Costs)	\$54,346	\$57,466	\$60,339	\$77,503	\$86,959
2	12 Reliability Costs	\$4,947	\$5,220	\$5,481	\$2,063	\$7,924
2	13 Cost of supply (Sum of rows 1-12)	\$7,284,615	\$7,705,758	\$8,091,046	\$10,461,029	\$11,737,277
4	14 Program Implementation Expenses (Direct)	\$2,681,236	\$2,851,875	\$2,994,469	\$3,613,395	\$4,054,230
15	Program Implementation Expenses (Distributed from sector level)	\$62,875	\$84,092	\$88,908	\$97,407	\$110,921
16	Program Implementation Expenses (OER and EERMC			0 0 0 0 0	30.0	
	Distributed from portfolio level)	\$41,762	\$55,950	\$58,379	\$73,533	\$81,951
7	17 Customer Contribution	\$1,321,227	\$1,340,145	\$1,407,152	\$1,830,888	\$2,054,257
8	18 Shareholder Incentive (Distributed from sector level)	\$144,496	\$165,738	\$166,366	\$178,271	\$179,584
19	19 Cost of energy efficiency (Sum of rows 14-18)	\$4,251,596	\$4,497,800	\$4,715,274	\$5,793,494	\$6,480,943
2	20 Difference (Row 13 - Row 19)	\$3,033,020	\$3,207,958	\$3,375,772	\$4,667,534	\$5,256,334

All values are from the Electric Benefit-Cost Model, 2021-2023 Plan. For 2021, Row (1) equal to Table E-6, sum of Energy columns "Winter Peak, "Winter Off-Peak", "Summer Peak" and "Summer Off-Peak

(2) Table E-6, Capacity column "Summer Generation."

(3) Table E-6 , Capacity column "Trans."

(4) Table E-6 , Capacity column "Dist."

(5) Table E-6, Non-electric column "Natural Gas." less Gas DRIPE included in that column

(6) Table E-6, sum of Non-electric columns "Oil", "Other Resource." and calculation from Electric Benefit-Cost Model, 2021-2023 Plan

(7) Calculations from Electric Benefit-Cost Model, 2021-2023 Plan

(8) Calculations from Electric Benefit-Cost Model, 2021-2023 Plan

(9) Table E-6, sum of Capacity column "Capacity DRIPE" and Energy column "Energy DRIPE." and calculation from Electric Benefit-Cost Model, 2021-2023 Plan for "Gas

(10) Table E-6, Societal column "Carbon."

(11) Table E-6, Societal column "NOx."

(15) Some costs are only at the sector level. They are allocated to programs for the purpose of this analysis by multiplying those sector level costs by the ratio of the (14) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Program Implementation Expenses." (12) Table E-6, Capacity column "Reliability."

(16) Some costs are only at the portfolio level (EERMC and OER costs). They are allocated to programs for the purpose of this analysis by multiplying those portfolio program's direct programmatic costs to the sector direct programmatic costs.

level costs by the ratio of the program's direct programmatic costs to the all direct programmatic costs. (17) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Customer Contribution."

(18) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Shareholder Incentive." This category is allocated to programs for the purpose of this analysis by multiplying the sector level shareholder incentive by the ratio of the program's direct programmatic costs. Omits the Connected Solutions programs that are not eligible for this shareholder incentive

RIPUC Docket No. 5076 Attachment PUC 1-22-21 d/b/a National Grid

	Calculation of cost of supply compared to cost of energy efficiency for Electric Energy Star Products Program- Part 2	cost of energy effici	ency for Electric Ene	rgy Star Products Pr	ogram- Part 2	
	Electric Energy	2021	2022	7	2023	23
			Base Case	High Scenario	Base Case	High Scenario
Ref	В	q	U	р	Э	f
1	Electric Energy Costs	\$2,343,605	\$2,474,479	\$2,598,203	\$3,381,822	\$3,794,405
7	Electric Generation Costs	\$487,397	\$536,791	\$563,631	\$763,345	\$856,473
3	Elecric Transmission Capacity Costs	\$728,603	\$769,576	\$808,055	\$1,039,634	\$1,166,469
4	Electric Distribution Capacity Cost	\$632,727	\$668,308	\$701,723	\$902,829	\$1,012,974
2	Price Effects	\$1,820,610	\$1,925,174	\$2,021,433	\$2,596,078	\$2,912,800
9	Cost of supply (Sum of Rows 1-5)	\$6,012,943	\$6,374,328	\$6,693,044	\$8,683,707	\$9,743,122
7	Program Implementation Expenses (Direct)	\$2,681,236	\$2,851,875	\$2,994,469	\$3,613,395	\$4,054,230
8	Program Implementation Expenses (Distributed from sector level)	\$62,875	\$84,092	\$88,908	\$97,407	\$110,921
٥	Program Implementation Expenses (OER and EERMC					
'n	Distributed from portfolio level)	\$41,762	\$55,950	\$58,379	\$73,533	\$81,951
10	10 Customer Contribution	\$1,321,227	\$1,340,145	\$1,407,152	\$1,830,888	\$2,054,257
11	11 Shareholder Incentive (Distributed from sector level)	\$144,496	\$165,738	\$166,366	\$178,271	\$179,584
13	13 Cost of energy efficiency (Sum of Rows 7-11)	\$4,251,596	\$4,497,800	\$4,715,274	\$5,793,494	\$6,480,943
14	14 Difference (Row 6 - Row 13)	\$1,761,347	\$1,876,528	\$1,977,770	\$2,890,213	\$3,262,179

(1) Table E-6, sum of Energy columns "Winter Peak, "Winter Off-Peak", "Summer Peak" and "Summer Off-Peak."

(2) Table E-6 , Capacity column "Summer Generation."

(3) Table E-6 , Capacity column "Trans." (4) Table E-6 , Capacity column "Dist."

(5) Table E-6 , sum of Capacity column "Capacity DRIPE" and Energy column "Energy DRIPE."

(7) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Program Implementation Expenses."

(8) Some costs are only at the sector level. They are allocated to programs for the purpose of this analysis by multiplying those sector level costs by the ratio of the program's direct programmatic costs to the sector direct programmatic costs.

(9) Some costs are only at the portfolio level (EERMC and OER costs). They are allocated to programs for the purpose of this analysis by multiplying those portfolio level

costs by the ratio of the program's direct programmatic costs to the all direct programmatic costs.

(10) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Customer Contribution.

(11) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Shareholder Incentive." This category is allocated to programs for the purpose of this analysis by multiplying the sector level shareholder incentive by the ratio of the program's direct programmatic costs to the sector direct programmatic costs. Omits the

d/b/a National Grid RIPUC Docket No. 5076 Attachment PUC 1-22-21

Calculation of cost of supply compared to cost of energy efficiency for Electric Energy Star Products Program- Part 3

2021 2022 2023

	Electric Energy	2021	2022	22	2023	13
			Base Case	High Scenario	Base Case	High Scenario
Ref	В	q	U	р	е	ţ
1	Electric Energy Costs	\$2,343,605	\$2,474,479	\$2,598,203	\$3,381,822	\$3,794,405
7	Electric Generation Costs	\$487,397	\$536,791	\$563,631	\$763,345	\$856,473
3	Cost of supply (sum of Rows 1-2)	\$2,831,002	\$3,011,270	\$3,161,834	\$4,145,167	\$4,650,878
4	Program Implementation Expenses (Direct)	\$2,681,236	\$2,851,875	\$2,994,469	\$3,613,395	\$4,054,230
2	Program Implementation Expenses (Distributed from sector level)	\$62,875	\$84,092	\$88,908	\$97,407	\$110,921
9	Program Implementation Expenses (OER and EERMC Distributed from portfolio level)	\$41,762	056,55\$	\$58,379	\$73,533	\$81,951
7	Customer Contribution	\$1,321,227	\$1,340,145	\$1,407,152	\$1,830,888	\$2,054,257
8	Shareholder Incentive (Distributed from sector level)	\$144,496	\$165,738	\$166,366	\$178,271	\$179,584
6	Cost of energy efficiency (sum of Rows 4-8)	\$4,251,596	\$4,497,800	\$4,715,274	\$5,793,494	\$6,480,943
10	10 Difference (Row 3 - Row 9)	-\$1,420,593	-\$1,486,530	-\$1,553,440	-\$1,648,327	-\$1,830,065

Notes:

(1) Table E-6, sum of Energy columns "Winter Peak, "Winter Off-Peak", "Summer Peak" and "Summer Off-Peak."

(2) Table E-6, Capacity column "Summer Generation.

(4) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Program Implementation Expenses."

(5) Some costs are only at the sector level. They are allocated to programs for the purpose of this analysis by multiplying those sector level costs by the ratio of the

(6) Some costs are only at the portfolio level (EERMC and OER costs). They are allocated to programs for the purpose of this analysis by multiplying those portfolio level costs by the ratio of the program's direct programmatic costs to the all direct programmatic costs. program's direct programmatic costs to the sector direct programmatic costs.

(7) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Customer Contribution."

(8) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Shareholder Incentive." This category is allocated to programs for the purpose of this analysis by multiplying the sector level shareholder incentive by the ratio of the program's direct programmatic costs to the sector direct programmatic costs. Omits the

The Narragansett Electric Company Attachment PUC 1-22-22 RIPUC Docket No. 5076 d/b/a National Grid

Calculation of cost of supply compared to cost of energy efficiency for Electric Commercial New Construction Program- Part 1

		Flactric Energy	2021	202	22	2002	7
L	Ī		1707	ı	- 1		
				Base Case	High Scenario	Base Case	High Scenario
æ	Ref	В	q	J	р	е	f
<u> </u>	1	Electric Energy Costs	\$11,977,353	\$13,285,702	\$13,949,987	\$11,800,480	\$13,240,142
	2	Electric Generation Costs	\$2,676,372	\$2,844,923	\$2,987,169	\$2,449,908	\$2,748,797
	3	Elecric Transmission Capacity Costs	\$3,343,446	\$3,510,670	\$3,686,204	\$2,954,786	\$3,315,271
	4	Electric Distribution Capacity Cost	\$2,903,484	\$3,048,703	\$3,201,138	\$2,565,967	\$2,879,016
	2	Natural Gas Costs	-\$367,235	-\$433,828	-\$455,519	-\$388,046	-\$435,388
	9	Fuel Costs	0\$	0\$	0\$	0\$	0\$
	7	Income Eligible Rate Discount	0\$	0\$	0\$	0\$	0\$
	8	Arrearages	0\$	0\$	0\$	0\$	0\$
	6	Price Effects	\$4,663,669	\$5,368,308	\$5,636,723	\$4,774,737	\$5,357,257
	10	10 Non-embedded Greenhouse Gas Reduction Costs	\$5,005,820	\$5,435,084	\$5,706,838	\$4,693,263	\$5,265,842
	11	11 Non-embedded Nitrous Oxide (NOx Costs)	\$223,423	\$246,324	\$258,640	\$216,068	\$242,428
	12	12 Reliability Costs	\$9,086	\$10,077	\$10,580	\$8,670	\$9,728
	13	13 Cost of supply (Sum of rows 1-12)	\$30,435,420	\$33,315,962	\$34,981,761	\$29,075,832	\$32,623,093
	14	14 Program Implementation Expenses (Direct)	\$8,500,175	\$9,845,884	\$10,338,179	\$8,962,708	\$10,056,161
,,	15	Program Implementation Expenses (Distributed from sector		-			
	1	level)	\$900,854	\$837,420	\$866,078	\$727,076	\$798,450
,	7.5	Program Implementation Expenses (OER and EERMC					
•		Distributed from portfolio level)	\$132,396	\$193,164	\$201,550	\$182,393	\$203,273
• •	17	17 Customer Contribution	\$893,109	\$1,111,382	\$1,166,951	\$1,004,563	\$1,127,120
٠.,	18	18 Shareholder Incentive (Distributed from sector level)	\$426,612	\$388,932	\$388,932	\$336,929	\$336,929
•	19	19 Cost of energy efficiency (Sum of rows 14-18)	\$10,853,146	\$12,376,783	\$12,961,690	\$11,213,670	\$12,521,933
	20	20 Difference (Row 13 - Row 19)	\$19,582,274	\$20,939,179	\$22,020,070	\$17,862,162	\$20,101,159
z	Notes:	:53					

All values are from the Electric Benefit-Cost Model, 2021-2023 Plan. For 2021, Row (1) equal to Table E-6, sum of Energy columns "Winter Peak, "Winter Off-Peak", "Summer Peak" and "Summer Off-Peak

(2) Table E-6, Capacity column "Summer Generation."

(3) Table E-6 , Capacity column "Trans."

(4) Table E-6 , Capacity column "Dist."

(5) Table E-6, Non-electric column "Natural Gas." less Gas DRIPE included in that column

(6) Table E-6, sum of Non-electric columns "Oil", "Other Resource." and calculation from Electric Benefit-Cost Model, 2021-2023 Plan

(7) Calculations from Electric Benefit-Cost Model, 2021-2023 Plan

(8) Calculations from Electric Benefit-Cost Model, 2021-2023 Plan

(9) Table E-6, sum of Capacity column "Capacity DRIPE" and Energy column "Energy DRIPE." and calculation from Electric Benefit-Cost Model, 2021-2023 Plan for "Gas

(10) Table E-6, Societal column "Carbon."

(11) Table E-6, Societal column "NOx."

(14) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Program Implementation Expenses.' (12) Table E-6, Capacity column "Reliability."

(15) Some costs are only at the sector level. They are allocated to programs for the purpose of this analysis by multiplying those sector level costs by the ratio of the program's direct programmatic costs to the sector direct programmatic costs.

(16) Some costs are only at the portfolio level (EERMC and OER costs). They are allocated to programs for the purpose of this analysis by multiplying those portfolio

level costs by the ratio of the program's direct programmatic costs to the all direct programmatic costs.

(18) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Shareholder Incentive." This category is allocated to programs for the purpose of this analysis by multiplying the sector level shareholder incentive by the ratio of the program's direct programmatic costs. Omits the (17) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Customer Contribution." Connected Solutions programs that are not eligible for this shareholder incentive

d/b/a National Grid RIPUC Docket No. 5076 Attachment PUC 1-22-22

	Calculation of cost of supply compared to cost of energy efficiency for Electric Commercial New Construction Program- Part 2	of energy efficiency	for Electric Commer	rcial New Constructio	n Program- Part 2	
	Electric Energy	2021	2022	77	2023	g
			Base Case	High Scenario	Base Case	High Scenario
Ref	В	q	J	р	e	f
1	Electric Energy Costs	\$11,977,353	\$13,285,702	\$13,949,987	\$11,800,480	\$13,240,142
7	Electric Generation Costs	\$2,676,372	\$2,844,923	\$2,987,169	\$2,449,908	\$2,748,797
3	Elecric Transmission Capacity Costs	\$3,343,446	\$3,510,670	\$3,686,204	\$2,954,786	\$3,315,271
4	Electric Distribution Capacity Cost	\$2,903,484	\$3,048,703	\$3,201,138	\$2,565,967	\$2,879,016
2	Price Effects	\$4,673,398	\$5,379,764	\$5,648,752	\$4,784,942	\$5,368,706
9	Cost of supply (Sum of Rows 1-5)	\$25,574,054	\$28,069,762	\$29,473,250	\$24,556,083	\$27,551,932
7	Program Implementation Expenses (Direct)	\$8,500,175	\$9,845,884	\$10,338,179	\$8,962,708	\$10,056,161
8	Program Implementation Expenses (Distributed from sector level)	\$900,854	\$837,420	\$866,078	\$727,076	\$798,450
6	Program Implementation Expenses (OER and EERMC Distributed from portfolio level)	\$132,396	\$193,164	\$201,550	\$182.393	\$203.273
10	10 Customer Contribution	\$893,109	\$1,111,382	\$1,166,951	\$1,004,563	\$1,127,120
11	11 Shareholder Incentive (Distributed from sector level)	\$426,612	\$388,932	\$388,932	\$336,929	\$336,929
13	13 Cost of energy efficiency (Sum of Rows 7-11)	\$10,853,146	\$12,376,783	\$12,961,690	\$11,213,670	\$12,521,933
14	14 Difference (Row 6 - Row 13)	\$14,720,908	\$15,692,979	\$16,511,560	\$13,342,413	\$15,029,999

Notes.

(1) Table E-6, sum of Energy columns "Winter Peak, "Winter Off-Peak", "Summer Peak" and "Summer Off-Peak."

(2) Table E-6, Capacity column "Summer Generation."

(3) Table E-6, Capacity column "Trans."

(3) Table E-6 , Capacity column "Dist." (4) Table E-6 , Capacity column "Dist."

(5) Table E-6 , sum of Capacity column "Capacity DRIPE" and Energy column "Energy DRIPE."

(7) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Program Implementation Expenses."

(8) Some costs are only at the sector level. They are allocated to programs for the purpose of this analysis by multiplying those sector level costs by the ratio of the program's direct programmatic costs to the sector direct programmatic costs.

(9) Some costs are only at the portfolio level (EERMC and OER costs). They are allocated to programs for the purpose of this analysis by multiplying those portfolio level

costs by the ratio of the program's direct programmatic costs to the all direct programmatic costs.

(10) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Customer Contribution." (11) 2071-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Chareholder Intentive." This category is allocated to

(11) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Shareholder Incentive." This category is allocated to programs for the purpose of this analysis by multiplying the sector level shareholder incentive by the ratio of the program's direct programmatic costs to the sector direct programmatic costs. Omits the Connected Solutions programs that are not eligible for this shareholder incentive

a/b/a National Grid RIPUC Docket No. 5076 Attachment PUC 1-22-22

	Calculation of cost of supply compared to cost of energy efficiency for Electric Commercial New Construction Program-Part 3	of energy efficiency	for Electric Comme	rcial New Construction	on Program-Part 3	
	Electric Energy	2021	2022	77	2023	3
			Base Case	High Scenario	Base Case	High Scenario
Ref	В	q	3	ъ	Ð	Ŧ
1	Electric Energy Costs	\$11,977,353	\$13,285,702	\$13,949,987	\$11,800,480	\$13,240,142
7	Electric Generation Costs	\$2,676,372	\$2,844,923	\$2,987,169	\$2,449,908	\$2,748,797
က	Cost of supply (sum of Rows 1-2)	\$14,653,725	\$16,130,625	\$16,937,156	\$14,250,388	\$15,988,939
4	Program Implementation Expenses (Direct)	\$8,500,175	\$9,845,884	\$10,338,179	\$8,962,708	\$10,056,161
u	Program Implementation Expenses (Distributed from sector					
n	level)	\$900,854	\$837,420	\$866,078	\$727,076	\$798,450
u	Program Implementation Expenses (OER and EERIMC					
٥	Distributed from portfolio level)	\$132,396	\$193,164	\$201,550	\$182,393	\$203,273
7	Customer Contribution	\$893,109	\$1,111,382	\$1,166,951	\$1,004,563	\$1,127,120
8	Shareholder Incentive (Distributed from sector level)	\$426,612	\$388,932	\$388,932	\$336,929	\$336,929
6	Cost of energy efficiency (sum of Rows 4-8)	\$10,853,146	\$12,376,783	\$12,961,690	\$11,213,670	\$12,521,933
10	10 Difference (Row 3 - Row 9)	\$3,800,579	\$3,753,842	\$3,975,466	\$3,036,718	\$3,467,006

Notes:

(1) Table E-6, sum of Energy columns "Winter Peak, "Winter Off-Peak", "Summer Peak" and "Summer Off-Peak."

(2) Table E-6, Capacity column "Summer Generation.

(4) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Program Implementation Expenses."

(5) Some costs are only at the sector level. They are allocated to programs for the purpose of this analysis by multiplying those sector level costs by the ratio of the

(6) Some costs are only at the portfolio level (EERMC and OER costs). They are allocated to programs for the purpose of this analysis by multiplying those portfolio level costs by the ratio of the program's direct programmatic costs to the all direct programmatic costs. program's direct programmatic costs to the sector direct programmatic costs.

(7) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Customer Contribution."

(8) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Shareholder Incentive." This category is allocated to programs for the purpose of this analysis by multiplying the sector level shareholder incentive by the ratio of the program's direct programmatic costs to the sector direct programmatic costs. Omits the

Calculation of cost of supply compared to cost of energy efficiency for Electric Large Commercial Retrofit Program- Part 1 Attachment PUC 1-22-23 RIPUC Docket No. 5076

Ref		1101				•
Ref			Base Case	High Scenario	Base Case	High Scenario
	В	q	U	р	Ð	f
1 E	Electric Energy Costs	\$46,479,163	\$63,404,054	\$65,588,823	\$78,564,538	\$84,447,566
2 E	Electric Generation Costs	\$11,123,451	\$12,276,788	\$12,890,627	\$13,531,839	\$15,182,727
3 E	Elecric Transmission Capacity Costs	\$14,775,813	\$15,894,018	\$16,688,718	\$16,983,685	\$19,055,699
4 E	Electric Distribution Capacity Cost	\$12,831,473	\$13,802,534	\$14,492,661	\$14,748,812	\$16,548,172
2	Natural Gas Costs	-\$6,633,879	-\$20,462,376	-\$20,752,218	-\$39,165,278	-\$40,022,508
9 E	Fuel Costs	0\$	0\$	0\$	\$10,608,090	\$10,608,090
7	Income Eligible Rate Discount	0\$	0\$	0\$	0\$	0\$
8	Arrearages	0\$	0\$	0\$	0\$	0\$
9 6	9 Price Effects	\$22,696,272	\$28,299,333	\$29,438,982	\$33,465,509	\$36,533,435
10	10 Non-embedded Greenhouse Gas Reduction Costs	\$17,987,193	\$17,949,545	\$18,804,089	\$17,361,007	\$19,561,725
11	11 Non-embedded Nitrous Oxide (NOx Costs)	\$549,723	-\$14,268	\$12,997	-\$453,248	-\$385,804
12 R	12 Reliability Costs	\$26,855	\$60,972	\$64,021	\$64,707	\$72,601
13 C	13 Cost of supply (Sum of rows 1-12)	\$119,866,064	\$131,210,600	\$137,228,701	\$145,709,660	\$161,601,703
14 P	14 Program Implementation Expenses (Direct)	\$31,930,242	\$44,260,469	\$46,473,493	\$47,649,170	\$53,462,383
15 P	Program Implementation Expenses (Distributed from sector	¢3 383 987	22 754 477	\$3 803 303	\$3 865 413	\$4 744 863
_	Program Implementation Expenses (OER and EERMC		((2001/2001/20	100000	
<u>1</u> 9	Distributed from portfolio level)	\$497,337	\$868,335	\$906,034	\$969,672	\$1,080,674
17 C	17 Customer Contribution	\$11,821,786	\$16,430,682	\$17,252,217	\$17,355,938	\$19,473,368
18 S	18 Shareholder Incentive (Distributed from sector level)	\$1,602,535	\$1,748,379	\$1,748,379	\$1,791,245	\$1,791,245
19 C	19 Cost of energy efficiency (Sum of rows 14-18)	\$49,235,885	\$67,072,343	\$70,273,425	\$71,631,438	\$80,052,534
20 E	20 Difference (Row 13 - Row 19)	\$70,630,179	\$64,138,257	\$66,955,276	\$74,078,222	\$81,549,169

All values are from the Electric Benefit-Cost Model, 2021-2023 Plan. For 2021, Row (1) equal to Table E-6, sum of Energy columns "Winter Peak, "Winter Off-Peak", "Summer Peak" and "Summer Off-Peak

(2) Table E-6, Capacity column "Summer Generation."

(3) Table E-6 , Capacity column "Trans."

(4) Table E-6 , Capacity column "Dist."

(5) Table E-6, Non-electric column "Natural Gas." less Gas DRIPE included in that column

(6) Table E-6, sum of Non-electric columns "Oil", "Other Resource." and calculation from Electric Benefit-Cost Model, 2021-2023 Plan

(7) Calculations from Electric Benefit-Cost Model, 2021-2023 Plan

(8) Calculations from Electric Benefit-Cost Model, 2021-2023 Plan

(9) Table E-6, sum of Capacity column "Capacity DRIPE" and Energy column "Energy DRIPE." and calculation from Electric Benefit-Cost Model, 2021-2023 Plan for "Gas

(10) Table E-6, Societal column "Carbon."

(12) Table E-6, Capacity column "Reliability." (11) Table E-6, Societal column "NOx."

(15) Some costs are only at the sector level. They are allocated to programs for the purpose of this analysis by multiplying those sector level costs by the ratio of the (14) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Program Implementation Expenses." program's direct programmatic costs to the sector direct programmatic costs. (16) Some costs are only at the portfolio level (EERMC and OER costs). They are allocated to programs for the purpose of this analysis by multiplying those portfolio

level costs by the ratio of the program's direct programmatic costs to the all direct programmatic costs.

(18) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Shareholder Incentive." This category is allocated to programs for the purpose of this analysis by multiplying the sector level shareholder incentive by the ratio of the program's direct programmatic costs. Omits the (17) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Customer Contribution." Connected Solutions programs that are not eligible for this shareholder incentive

RIPUC Docket No. 5076 d/b/a National Grid

Calculation of cost of supply compared to cost of energy efficiency for Electric Large Commercial Retrofit Program-Part 2 Attachment PUC 1-22-23

	Electric Energy	2021	2022	22	2023	23
			Base Case	High Scenario	Base Case	High Scenario
Ref	В	q	J	р	ə	ţ
1	Electric Energy Costs	\$46,479,163	\$63,404,054	\$65,588,823	\$78,564,538	\$84,447,566
7	Electric Generation Costs	\$11,123,451	\$12,276,788	\$12,890,627	\$13,531,839	\$15,182,727
3	Elecric Transmission Capacity Costs	\$14,775,813	\$15,894,018	\$16,688,718	\$16,983,685	\$19,055,699
4	Electric Distribution Capacity Cost	\$12,831,473	\$13,802,534	\$14,492,661	\$14,748,812	\$16,548,172
2	Price Effects	\$22,882,525	\$28,745,073	\$29,893,174	\$34,273,066	\$37,365,827
9	Cost of supply (Sum of Rows 1-5)	\$108,092,425	\$134,122,467	\$139,554,004	\$158,101,940	\$172,599,991
7	Program Implementation Expenses (Direct)	\$31,930,242	\$44,260,469	\$46,473,493	\$47,649,170	\$53,462,383
۰	Program Implementation Expenses (Distributed from sector					
•	level)	\$3,383,987	\$3,764,477	\$3,893,303	\$3,865,413	\$4,244,863
0	Program Implementation Expenses (OER and EERMC					
'n	Distributed from portfolio level)	\$497,337	\$868,335	\$906,034	\$969,672	\$1,080,674
10	10 Customer Contribution	\$11,821,786	\$16,430,682	\$17,252,217	\$17,355,938	\$19,473,368
11	11 Shareholder Incentive (Distributed from sector level)	\$1,602,535	\$1,748,379	\$1,748,379	\$1,791,245	\$1,791,245
13	13 Cost of energy efficiency (Sum of Rows 7-11)	\$49,235,885	\$67,072,343	\$70,273,425	\$71,631,438	\$80,052,534
14	14 Difference (Row 6 - Row 13)	\$58,856,540	\$67,050,124	\$69,280,579	\$86,470,502	\$92,547,457

(1) Table E-6, sum of Energy columns "Winter Peak, "Winter Off-Peak", "Summer Peak" and "Summer Off-Peak."

(2) Table E-6 , Capacity column "Summer Generation."

(3) Table E-6, Capacity column "Trans."

(4) Table E-6, Capacity column "Dist."

(5) Table E-6, sum of Capacity column "Capacity DRIPE" and Energy column "Energy DRIPE."

(7) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Program Implementation Expenses."

(8) Some costs are only at the sector level. They are allocated to programs for the purpose of this analysis by multiplying those sector level costs by the ratio of the

(9) Some costs are only at the portfolio level (EERMC and OER costs). They are allocated to programs for the purpose of this analysis by multiplying those portfolio level program's direct programmatic costs to the sector direct programmatic costs.

costs by the ratio of the program's direct programmatic costs to the all direct programmatic costs.

(10) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Customer Contribution."

(11) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Shareholder Incentive." This category is allocated to programs for the purpose of this analysis by multiplying the sector level shareholder incentive by the ratio of the program's direct programmatic costs to the sector direct programmatic costs. Omits the

a/b/a National Grid RIPUC Docket No. 5076 Attachment PUC 1-22-23

	Calculation of cost of supply compared to cost of energy efficiency for Electric Large Commercial Retrofit Program- Part 3	st of energy efficien	icy for Electric Large	Commercial Retrofit	Program-Part 3	
	Electric Energy	2021	2022	22	2023	13
			Base Case	High Scenario	Base Case	High Scenario
Ref	В	q	J	ъ	е	f
1	Electric Energy Costs	\$46,479,163	\$63,404,054	\$65,588,823	\$78,564,538	\$84,447,566
7	Electric Generation Costs	\$11,123,451	\$12,276,788	\$12,890,627	\$13,531,839	\$15,182,727
3	Cost of supply (sum of Rows 1-2)	\$57,602,614	\$75,680,842	\$78,479,451	\$92,096,377	\$99,630,293
4	Program Implementation Expenses (Direct)	\$31,930,242	\$44,260,469	\$46,473,493	\$47,649,170	\$53,462,383
2	Program Implementation Expenses (Distributed from sector level)	\$3,383,987	\$3,764,477	\$3,893,303	\$3,865,413	\$4,244,863
9	Program Implementation Expenses (OER and EERMC Distributed from portfolio level)	\$497,337	\$868,335	\$906,034	\$969,672	\$1.080.674
7	7 Customer Contribution	\$11,821,786	\$16,430,682	\$17,252,217	\$17,355,938	\$19,473,368
8	Shareholder Incentive (Distributed from sector level)	\$1,602,535	\$1,748,379	\$1,748,379	\$1,791,245	\$1,791,245
6	Cost of energy efficiency (sum of Rows 4-8)	\$49,235,885	\$67,072,343	\$70,273,425	\$71,631,438	\$80,052,534
10	10 Difference (Row 3 - Row 9)	\$8,366,729	\$8,608,500	\$8,206,026	\$20,464,939	\$19,577,759

Notes:

(1) Table E-6, sum of Energy columns "Winter Peak, "Winter Off-Peak", "Summer Peak" and "Summer Off-Peak."

(2) Table E-6, Capacity column "Summer Generation.

(4) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Program Implementation Expenses."

(5) Some costs are only at the sector level. They are allocated to programs for the purpose of this analysis by multiplying those sector level costs by the ratio of the

(6) Some costs are only at the portfolio level (EERMC and OER costs). They are allocated to programs for the purpose of this analysis by multiplying those portfolio level costs by the ratio of the program's direct programmatic costs to the all direct programmatic costs. program's direct programmatic costs to the sector direct programmatic costs.

(7) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Customer Contribution."

(8) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Shareholder Incentive." This category is allocated to programs for the purpose of this analysis by multiplying the sector level shareholder incentive by the ratio of the program's direct programmatic costs to the sector direct programmatic costs. Omits the

The Narragansett Electric Company Attachment PUC 1-22-24 RIPUC Docket No. 5076 d/b/a National Grid

Calculation of cost of supply compared to cost of energy efficiency for Electric Small Business Direct Install Program- Part 1

					•	
	Electric Energy	2021	2022	22	2023	13
			Base Case	High Scenario	Base Case	High Scenario
Ref	е	q	v	р	е	÷
1	Electric Energy Costs	\$6,492,783	\$6,669,026	\$7,002,477	\$7,300,979	\$8,191,700
7	Electric Generation Costs	\$976,284	\$1,041,729	\$1,093,815	\$1,170,078	\$1,312,828
m	Elecric Transmission Capacity Costs	\$1,324,210	\$1,363,937	\$1,432,133	\$1,483,115	\$1,664,056
4	Electric Distribution Capacity Cost	\$1,149,958	\$1,184,457	\$1,243,680	\$1,287,953	\$1,445,084
2	Natural Gas Costs	-\$769,919	762,767\$-	-\$837,267	-\$872,230	-\$978,642
9	Fuel Costs	0\$	0\$	0\$	0\$	0\$
7	Income Eligible Rate Discount	0\$	0\$	0\$	0\$	0\$
∞	Arrearages	0\$	0\$	0\$	0\$	0\$
6	Price Effects	\$3,817,581	\$3,932,109	\$4,128,714	\$4,275,691	\$4,797,326
10	10 Non-embedded Greenhouse Gas Reduction Costs	\$2,677,993	\$2,711,935	\$2,847,531	\$2,898,379	\$3,251,982
11	11 Non-embedded Nitrous Oxide (NOx Costs)	\$85,814	\$88,389	\$92,808	\$96,112	\$107,838
12	12 Reliability Costs	\$5,553	\$5,719	\$6,005	\$6,219	\$6,978
13	13 Cost of supply (Sum of rows 1-12)	\$15,760,258	\$16,199,902	\$17,009,897	\$17,646,297	\$19,799,150
14	14 Program Implementation Expenses (Direct)	\$8,883,559	\$8,548,647	\$8,976,079	\$9,225,948	\$10,351,517
Ļ	Program Implementation Expenses (Distributed from sector					
7	level)	\$941,485	\$727,086	\$751,968	\$748,431	\$821,901
9	Program Implementation Expenses (OER and EERMC					
9	Distributed from portfolio level)	\$138,368	\$167,714	\$174,995	\$187,750	\$209,243
17	17 Customer Contribution	\$1,922,793	\$1,811,498	\$1,902,073	\$1,969,785	\$2,210,099
18	18 Shareholder Incentive (Distributed from sector level)	\$445,854	\$337,689	\$337,689	\$346,825	\$346,825
19	19 Cost of energy efficiency (Sum of rows 14-18)	\$12,332,058	\$11,592,634	\$12,142,805	\$12,478,739	\$13,939,584
20	20 Difference (Row 13 - Row 19)	\$3,428,200	\$4,607,268	\$4,867,092	\$5,167,558	\$5,859,566

All values are from the Electric Benefit-Cost Model, 2021-2023 Plan. For 2021, Row (1) equal to Table E-6, sum of Energy columns "Winter Peak, "Winter Off-Peak",

(2) Table E-6, Capacity column "Summer Generation."

"Summer Peak" and "Summer Off-Peak.

(3) Table E-6 , Capacity column "Trans."

(4) Table E-6 , Capacity column "Dist."

(5) Table E-6, Non-electric column "Natural Gas." less Gas DRIPE included in that column

(6) Table E-6, sum of Non-electric columns "Oil", "Other Resource." and calculation from Electric Benefit-Cost Model, 2021-2023 Plan

(7) Calculations from Electric Benefit-Cost Model, 2021-2023 Plan

(8) Calculations from Electric Benefit-Cost Model, 2021-2023 Plan

(9) Table E-6, sum of Capacity column "Capacity DRIPE" and Energy column "Energy DRIPE." and calculation from Electric Benefit-Cost Model, 2021-2023 Plan for "Gas

(10) Table E-6, Societal column "Carbon."

(11) Table E-6, Societal column "NOx."

(14) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Program Implementation Expenses." (12) Table E-6, Capacity column "Reliability."

(15) Some costs are only at the sector level. They are allocated to programs for the purpose of this analysis by multiplying those sector level costs by the ratio of the program's direct programmatic costs to the sector direct programmatic costs.

(16) Some costs are only at the portfolio level (EERMC and OER costs). They are allocated to programs for the purpose of this analysis by multiplying those portfolio

level costs by the ratio of the program's direct programmatic costs to the all direct programmatic costs.

(17) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Customer Contribution."

(18) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Shareholder Incentive." This category is allocated to programs for the purpose of this analysis by multiplying the sector level shareholder incentive by the ratio of the program's direct programmatic costs. Omits the Connected Solutions programs that are not eligible for this shareholder incentive

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The Narragansett Electric Company d/b/a National Grid

RIPUC Docket No. 5076 Attachment PUC 1-22-24

	Calculation of cost of supply compared to cost of energy efficiency for Electric Small Business Direct Install Program-Part 2	t of energy efficiency	/ for Electric Small B	usiness Direct Instal	l Program- Part 2	
	Electric Energy	2021	2022	7	2023	e.
			Base Case	High Scenario	Base Case	High Scenario
Ref	В	q	J	ъ	Ð	ţ
1	Electric Energy Costs	\$6,492,783	\$6,669,026	\$7,002,477	\$7,300,979	\$8,191,700
7	Electric Generation Costs	\$976,284	\$1,041,729	\$1,093,815	\$1,170,078	\$1,312,828
3	Elecric Transmission Capacity Costs	\$1,324,210	\$1,363,937	\$1,432,133	\$1,483,115	\$1,664,056
4	Electric Distribution Capacity Cost	\$1,149,958	\$1,184,457	\$1,243,680	\$1,287,953	\$1,445,084
2	Price Effects	\$3,843,858	\$3,959,173	\$4,157,132	\$4,305,121	\$4,830,347
9	Cost of supply (Sum of Rows 1-5)	\$13,787,094	\$14,218,321	\$14,929,237	\$15,547,246	\$17,444,015
7	Program Implementation Expenses (Direct)	\$8,883,559	\$8,548,647	\$8,976,079	\$9,225,948	\$10,351,517
8	Program Implementation Expenses (Distributed from sector level)	\$941,485	\$727,086	\$751,968	\$748,431	\$821,901
6	Program Implementation Expenses (OER and EERIMC Distributed from portfolio level)	\$138,368	\$167,714	\$174,995	\$187,750	\$209,243
10	10 Customer Contribution	\$1,922,793	\$1,811,498	\$1,902,073	\$1,969,785	\$2,210,099
11	11 Shareholder Incentive (Distributed from sector level)	\$445,854	\$337,689	\$337,689	\$346,825	\$346,825
13	13 Cost of energy efficiency (Sum of Rows 7-11)	\$12,332,058	\$11,592,634	\$12,142,805	\$12,478,739	\$13,939,584
14	14 Difference (Row 6 - Row 13)	\$1,455,035	\$2,625,687	\$2,786,432	\$3,068,507	\$3,504,430

Notes.

(1) Table E-6, sum of Energy columns "Winter Peak, "Winter Off-Peak", "Summer Peak" and "Summer Off-Peak."

(2) Table E-6, Capacity column "Summer Generation."

(3) Table E-6 , Capacity column "Trans."

(4) Table E-6 , Capacity column "Dist."

(5) Table E-6, sum of Capacity column "Capacity DRIPE" and Energy column "Energy DRIPE."

(7) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Program Implementation Expenses."

(8) Some costs are only at the sector level. They are allocated to programs for the purpose of this analysis by multiplying those sector level costs by the ratio of the

(9) Some costs are only at the portfolio level (EERMC and OER costs). They are allocated to programs for the purpose of this analysis by multiplying those portfolio level program's direct programmatic costs to the sector direct programmatic costs.

costs by the ratio of the program's direct programmatic costs to the all direct programmatic costs.

(10) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Customer Contribution."

(11) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Shareholder Incentive." This category is allocated to programs for the purpose of this analysis by multiplying the sector level shareholder incentive by the ratio of the program's direct programmatic costs to the sector direct programmatic costs. Omits the

Connected Solutions programs that are not eligible for this shareholder incentive

The Narragansett Electric Company d/b/a National Grid

a/b/a National Grid RIPUC Docket No. 5076 Attachment PUC 1-22-24

ef a High Scenario 1 Electric Energy Costs b c d 2 Electric Generation Costs \$976,284 \$1,041,729 \$1,093,815 3 Cost of supply (sum of Rows 1-2) \$7,469,068 \$7,710,754 \$8,996,292 4 Program Implementation Expenses (Direct) \$8,883,559 \$8,548,647 \$8,976,079
b c High s \$6,492,783 \$6,669,026 \$6,9026 \$976,284 \$1,041,729 \$7,469,068 \$7,710,754 \$8,883,559 \$8,548,647 \$8,548,647 \$8,548,647
c \$6,669,026 \$1,041,729 \$7,710,754 \$8,548,647
\$6,669,026 \$1,041,729 \$7,710,754 \$8,548,647
\$1,041,729 \$7,710,754 \$8,548,647
\$7,710,754 \$8,548,647
\$8,548,647
Program Implementation Expenses (Distributed from sector
\$941,485 \$727,086 \$751,968
Program Implementation Expenses (OER and EERMC
\$138,368 \$167,714 \$174,995
\$167,714
\$167,714
\$
\$187,750 \$1,969,785 \$346,825

Notes:

(1) Table E-6, sum of Energy columns "Winter Peak, "Winter Off-Peak", "Summer Peak" and "Summer Off-Peak."

(2) Table E-6, Capacity column "Summer Generation.

(4) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Program Implementation Expenses."

(5) Some costs are only at the sector level. They are allocated to programs for the purpose of this analysis by multiplying those sector level costs by the ratio of the program's direct programmatic costs to the sector direct programmatic costs.

(6) Some costs are only at the portfolio level (EERMC and OER costs). They are allocated to programs for the purpose of this analysis by multiplying those portfolio level costs by the ratio of the program's direct programmatic costs to the all direct programmatic costs.

(7) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Customer Contribution."

(8) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Shareholder Incentive." This category is allocated to programs for the purpose of this analysis by multiplying the sector level shareholder incentive by the ratio of the program's direct programmatic costs to the sector direct programmatic costs. Omits the

ConnectedSolutions programs that are not eligible for this shareholder incentive

The Narragansett Electric Company RIPUC Docket No. 5076 d/b/a National Grid

Calculation of cost of supply compared to cost of energy efficiency for Electric Low Income Single Family Program- Part 1 Attachment PUC 1-22-25

	Electric Energy	2021	2022	22	2023	æ
			Base Case	High Scenario	Base Case	High Scenario
Ref	ь	q	C	р	ə	f
1	Electric Energy Costs	\$2,514,773	\$2,778,568	\$2,917,497	\$3,186,291	\$3,575,019
7	Electric Generation Costs	\$486,129	\$549,145	\$576,603	\$632,840	\$710,047
æ	Elecric Transmission Capacity Costs	\$621,755	\$683,983	\$718,183	\$765,136	\$858,482
4	Electric Distribution Capacity Cost	\$539,939	\$593,979	\$623,677	\$664,452	\$745,515
2	Natural Gas Costs	\$103,516	\$119,214	\$125,175	\$137,606	\$154,394
9	Fuel Costs	\$5,527,689	\$6,216,703	\$6,527,538	\$6,944,415	\$7,791,636
7	Income Eligible Rate Discount	\$57,939	\$71,648	\$75,230	\$81,200	\$91,106
∞	Arrearages	\$46,901	\$51,591	\$54,170	\$56,750	\$63,673
6	Price Effects	\$1,039,787	\$1,117,715	\$1,173,601	\$1,238,119	\$1,389,170
10	Non-embedded Greenhouse Gas Reduction Costs	\$2,335,939	\$2,552,332	\$2,679,949	\$2,821,622	\$3,165,861
11	Non-embedded Nitrous Oxide (NOx Costs)	\$230,265	\$253,756	\$266,444	\$281,274	\$315,589
12	Reliability Costs	\$2,265	\$2,392	\$2,512	\$2,592	\$2,908
13	Cost of supply (Sum of rows 1-12)	\$13,506,897	\$14,991,028	\$15,740,579	\$16,812,297	\$18,863,402
14	Program Implementation Expenses (Direct)	\$13,759,324	\$15,099,473	\$15,854,447	\$16,622,274	\$18,650,196
15	Program Implementation Expenses (Distributed from sector					
2	level)	\$84,517	\$122,102	\$128,208	\$135,631	\$152,178
76	Program Implementation Expenses (OER and EERMC					
9	Distributed from portfolio level)	\$214,311	\$296,233	\$309,094	\$338,267	\$376,990
17	17 Customer Contribution	0\$	0\$	0\$	0\$	0\$
18	18 Shareholder Incentive (Distributed from sector level)	\$814,156	686'658\$	\$859,989	\$863,302	\$863,302
19	Cost of energy efficiency (Sum of rows 14-18)	\$14,872,308	\$16,377,797	\$17,151,737	\$17,959,473	\$20,042,665
20	20 Difference (Row 13 - Row 19)	-\$1,365,411	-\$1,386,770	-\$1,411,158	-\$1,147,176	-\$1,179,263

All values are from the Electric Benefit-Cost Model, 2021-2023 Plan. For 2021, Row (1) equal to Table E-6, sum of Energy columns "Winter Peak, "Winter Off-Peak", "Summer Peak" and "Summer Off-Peak

(2) Table E-6, Capacity column "Summer Generation."

(3) Table E-6 , Capacity column "Trans."

(4) Table E-6 , Capacity column "Dist."

(5) Table E-6, Non-electric column "Natural Gas." less Gas DRIPE included in that column

(6) Table E-6, sum of Non-electric columns "Oil", "Other Resource." and calculation from Electric Benefit-Cost Model, 2021-2023 Plan

(7) Calculations from Electric Benefit-Cost Model, 2021-2023 Plan

(8) Calculations from Electric Benefit-Cost Model, 2021-2023 Plan

(9) Table E-6, sum of Capacity column "Capacity DRIPE" and Energy column "Energy DRIPE." and calculation from Electric Benefit-Cost Model, 2021-2023 Plan for "Gas

(10) Table E-6, Societal column "Carbon." (11) Table E-6, Societal column "NOx."

(14) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Program Implementation Expenses." (12) Table E-6, Capacity column "Reliability."

(15) Some costs are only at the sector level. They are allocated to programs for the purpose of this analysis by multiplying those sector level costs by the ratio of the program's direct programmatic costs to the sector direct programmatic costs. (16) Some costs are only at the portfolio level (EERMC and OER costs). They are allocated to programs for the purpose of this analysis by multiplying those portfolio

level costs by the ratio of the program's direct programmatic costs to the all direct programmatic costs. (17) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Customer Contribution."

(18) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Shareholder Incentive." This category is allocated to programs for the purpose of this analysis by multiplying the sector level shareholder incentive by the ratio of the program's direct programmatic costs. Omits the Connected Solutions programs that are not eligible for this shareholder incentive

The Narragansett Electric Company

d/b/a National Grid RIPUC Docket No. 5076 Attachment PUC 1-22-25

	Calculation of cost of supply compared to cost of energy efficiency for Electric Low Income Single Family Program- Part 2	st ot energy efficien	cy for Electric Low In	ncome Single Family	Program-Part 2	
	Electric Energy	2021	2022	22	2023	23
			Base Case	High Scenario	Base Case	High Scenario
Ref	В	q	U	р	e	f
1	Electric Energy Costs	\$2,514,773	\$2,778,568	\$2,917,497	\$3,186,291	\$3,575,019
7	Electric Generation Costs	\$486,129	\$549,145	\$576,603	\$632,840	\$710,047
3	Elecric Transmission Capacity Costs	\$621,755	\$683,983	\$718,183	\$765,136	\$858,482
4	Electric Distribution Capacity Cost	\$539,939	\$593,979	\$623,677	\$664,452	\$745,515
2	Price Effects	\$1,037,854	\$1,115,500	\$1,171,275	\$1,235,572	\$1,386,313
9	Cost of supply (Sum of Rows 1-5)	\$5,200,450	\$5,721,176	\$6,007,234	\$6,484,291	\$7,275,377
7	Program Implementation Expenses (Direct)	\$13,759,324	\$15,099,473	\$15,854,447	\$16,622,274	\$18,650,196
8	Program Implementation Expenses (Distributed from sector level)	\$84,517	\$122,102	\$128,208	\$135,631	\$152,178
6	Program Implementation Expenses (OER and EERMC Distributed from portfolio level)	\$214,311	\$296,233	\$309,094	\$338,267	\$376,990
10	10 Customer Contribution	0\$	0\$	\$0	0\$	\$0
11	11 Shareholder Incentive (Distributed from sector level)	\$814,156	\$859,989	\$859,989	\$863,302	\$863,302
13	13 Cost of energy efficiency (Sum of Rows 7-11)	\$14,872,308	\$16,377,797	\$17,151,737	\$17,959,473	\$20,042,665
14	14 Difference (Row 6 - Row 13)	-\$9,671,858	-\$10,656,622	-\$11,144,503	-\$11,475,182	-\$12,767,289

Notes:

(1) Table E-6, sum of Energy columns "Winter Peak, "Winter Off-Peak", "Summer Peak" and "Summer Off-Peak."

(2) Table E-6 , Capacity column "Summer Generation."

(3) Table E-6 , Capacity column "Trans."

(4) Table E-6 , Capacity column "Dist."

(5) Table E-6, sum of Capacity column "Capacity DRIPE" and Energy column "Energy DRIPE."

(7) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Program Implementation Expenses."

(8) Some costs are only at the sector level. They are allocated to programs for the purpose of this analysis by multiplying those sector level costs by the ratio of the

(9) Some costs are only at the portfolio level (EERMC and OER costs). They are allocated to programs for the purpose of this analysis by multiplying those portfolio level program's direct programmatic costs to the sector direct programmatic costs.

costs by the ratio of the program's direct programmatic costs to the all direct programmatic costs. (10) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Customer Contribution."

(11) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Shareholder Incentive." This category is allocated to programs for the purpose of this analysis by

multiplying the sector level shareholder incentive by the ratio of the program's direct programmatic costs to the sector direct programmatic costs. Omits the Connected Solutions programs that are not eligible for this shareholder incentive

The Narragansett Electric Company d/b/a National Grid

Attachment PUC 1-22-25 RIPUC Docket No. 5076

	1					
_	Electric Energy	2021	2022	7	2023	en en
			Base Case	High Scenario	Base Case	High Scenario
Ref	В	q	J	ъ	a	•
1	Electric Energy Costs	\$2,514,773	\$2,778,568	\$2,917,497	\$3,186,291	\$3,575,019
7	Electric Generation Costs	\$486,129	\$549,145	\$576,603	\$632,840	\$710,047
3	Cost of supply (sum of Rows 1-2)	\$3,000,902	\$3,327,714	\$3,494,099	\$3,819,131	\$4,285,066
4	Program Implementation Expenses (Direct)	\$13,759,324	\$15,099,473	\$15,854,447	\$16,622,274	\$18,650,196
2	Program Implementation Expenses (Distributed from sector	200 517	\$133,103	\$128.208	\$1.0E 631	\$153 178
	level)	110,400	21777T¢	\$120,200	150,051	7132,170
ď	Program Implementation Expenses (OER and EERMC					
,	Distributed from portfolio level)	\$214,311	\$296,233	\$309,094	\$338,267	\$376,990
7	Customer Contribution	0\$	0\$	0\$	0\$	0\$
8	Shareholder Incentive (Distributed from sector level)	\$814,156	\$859,989	\$859,989	\$863,302	\$863,302
6	Cost of energy efficiency (sum of Rows 4-8)	\$14,872,308	\$16,377,797	\$17,151,737	\$17,959,473	\$20,042,665
10	10 Difference (Row 3 - Row 9)	-\$11,871,405	-\$13,050,084	-\$13,657,638	-\$14,140,342	-\$15,757,599

(1) Table E-6, sum of Energy columns "Winter Peak, "Winter Off-Peak", "Summer Peak" and "Summer Off-Peak."

(2) Table E-6, Capacity column "Summer Generation.

(4) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Program Implementation Expenses."

(5) Some costs are only at the sector level. They are allocated to programs for the purpose of this analysis by multiplying those sector level costs by the ratio of the

(6) Some costs are only at the portfolio level (EERMC and OER costs). They are allocated to programs for the purpose of this analysis by multiplying those portfolio level costs by the ratio of the program's direct programmatic costs to the all direct programmatic costs. program's direct programmatic costs to the sector direct programmatic costs.

(7) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Customer Contribution."

(8) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Shareholder Incentive." This category is allocated to programs for the purpose of this analysis by multiplying the sector level shareholder incentive by the ratio of the program's direct programmatic costs to the sector direct programmatic costs. Omits the

Connected Solutions programs that are not eligible for this shareholder incentive

The Narragansett Electric Company RIPUC Docket No. 5076 d/b/a National Grid

Attachment PUC 1-22-26

	Calculation of cost of supply compared to cost of energy efficiency for Electric Low Income MultiFamily Program-Part 1	st of energy efficien	cy for Electric Low I	ncome MultiFamily F	rogram- Part 1	
	Electric Energy	2021	2022	77	2023	33
			Base Case	High Scenario	Base Case	High Scenario
Ref	В	q	U	ъ	ə	Ŧ
1	Electric Energy Costs	\$209,025	\$197,898	\$207,793	\$177,055	\$198,656
2	Electric Generation Costs	\$46,896	\$46,260	\$48,573	\$43,952	\$49,314
ĸ	Elecric Transmission Capacity Costs	\$60,902	\$58,150	\$61,058	\$52,304	\$58,685
4	Electric Distribution Capacity Cost	\$52,888	\$50,498	\$53,023	\$45,422	\$50,963
2	Natural Gas Costs	0\$	0\$	0\$	0\$	\$0
9	Fuel Costs	\$655,239	\$665,782	\$699,071	\$674,586	\$756,886
7	Income Eligible Rate Discount	\$45,884	\$44,369	\$46,587	\$47,626	\$53,437
8	Arrearages	\$134,819	\$134,819	\$141,560	\$134,819	\$151,267
6	Price Effects	\$117,395	\$103,510	\$108,685	\$74,003	\$83,031
10	10 Non-embedded Greenhouse Gas Reduction Costs	\$235,134	\$228,229	\$239,672	\$215,243	\$241,502
11	11 Non-embedded Nitrous Oxide (NOx Costs)	\$24,579	\$24,322	\$25,538	\$23,776	\$26,677
12	12 Reliability Costs	\$306	\$256	\$269	\$151	\$170
13	13 Cost of supply (Sum of rows 1-12)	\$1,583,066	\$1,554,123	\$1,631,829	\$1,488,937	\$1,670,588
14	14 Program Implementation Expenses (Direct)	\$4,830,800	\$4,214,050	\$4,424,753	\$4,557,458	\$5,113,470
15	Program Implementation Expenses (Distributed from sector level)	\$29,673	\$34,077	\$35,781	\$37,187	\$41,724
16	Program Implementation Expenses (OER and EERMC Distributed from portfolio level)	\$75,243	\$82,674	\$86,264	\$92,745	\$103,362
17	17 Customer Contribution	0\$	0\$	0\$	0\$	0\$
18	18 Shareholder Incentive (Distributed from sector level)	\$285,844	\$240,011	\$240,011	\$236,698	\$236,698
19	19 Cost of energy efficiency (Sum of rows 14-18)	\$5,221,561	\$4,570,812	\$4,786,808	\$4,924,089	\$5,495,254
20	20 Difference (Row 13 - Row 19)	-\$3,638,495	-\$3,016,690	-\$3,154,979	-\$3,435,152	-\$3,824,666
Notes:	es:					

All values are from the Electric Benefit-Cost Model, 2021-2023 Plan. For 2021, Row (1) equal to Table E-6, sum of Energy columns "Winter Peak," "Winter Off-Peak", "Summer Peak" and "Summer Off-Peak

(2) Table E-6, Capacity column "Summer Generation."

(3) Table E-6 , Capacity column "Trans."

(4) Table E-6 , Capacity column "Dist."

(5) Table E-6, Non-electric column "Natural Gas." less Gas DRIPE included in that column

(6) Table E-6, sum of Non-electric columns "Oil", "Other Resource." and calculation from Electric Benefit-Cost Model, 2021-2023 Plan

(7) Calculations from Electric Benefit-Cost Model, 2021-2023 Plan

(8) Calculations from Electric Benefit-Cost Model, 2021-2023 Plan

(9) Table E-6, sum of Capacity column "Capacity DRIPE" and Energy column "Energy DRIPE." and calculation from Electric Benefit-Cost Model, 2021-2023 Plan for "Gas

(10) Table E-6, Societal column "Carbon."

(11) Table E-6, Societal column "NOx."

(14) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Program Implementation Expenses." (12) Table E-6, Capacity column "Reliability."

(15) Some costs are only at the sector level. They are allocated to programs for the purpose of this analysis by multiplying those sector level costs by the ratio of the program's direct programmatic costs to the sector direct programmatic costs.

(16) Some costs are only at the portfolio level (EERMC and OER costs). They are allocated to programs for the purpose of this analysis by multiplying those portfolio

level costs by the ratio of the program's direct programmatic costs to the all direct programmatic costs.

(18) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Shareholder Incentive." This category is allocated to programs for the purpose of this analysis by multiplying the sector level shareholder incentive by the ratio of the program's direct programmatic costs. Omits the (17) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Customer Contribution." Connected Solutions programs that are not eligible for this shareholder incentive

The Narragansett Electric Company

d/b/a National Grid RIPUC Docket No. 5076 Attachment PUC 1-22-26

	Calculation of cost of supply compared to cost of energy efficiency for Electric Low Income MultiFamily Program- Part 2	ost of energy efficien	ncy for Electric Low I	ncome MultiFamily	Program-Part 2	
	Electric Energy	2021	2022	77	2023	23
			Base Case	High Scenario	Base Case	High Scenario
Ref	е	q	C	р	е	f
1	Electric Energy Costs	\$209,025	\$197,898	\$207,793	\$177,055	\$198,656
7	Electric Generation Costs	\$46,896	\$46,260	\$48,573	\$43,952	\$49,314
3	Elecric Transmission Capacity Costs	\$60,902	\$58,150	\$61,058	\$52,304	\$58,685
4	Electric Distribution Capacity Cost	\$52,888	\$50,498	\$53,023	\$45,422	\$50,963
2	Price Effects	\$117,395	\$103,510	\$108,685	\$74,003	\$83,031
9	Cost of supply (Sum of Rows 1-5)	\$487,105	\$456,316	\$479,132	\$392,736	\$440,649
7	Program Implementation Expenses (Direct)	\$4,830,800	\$4,214,050	\$4,424,753	\$4,557,458	\$5,113,470
8	Program Implementation Expenses (Distributed from sector level)	\$29,673	\$34,077	\$35,781	\$37,187	\$41,724
6	Program Implementation Expenses (OER and EERMC Distributed from portfolio level)	\$75,243	\$82,674	\$86,264	\$92,745	\$103,362
10	10 Customer Contribution	0\$	0\$	0\$	0\$	\$0
11	Shareholder Incentive (Distributed from sector level)	\$285,844	\$240,011	\$240,011	\$236,698	\$236,698
13	13 Cost of energy efficiency (Sum of Rows 7-11)	\$5,221,561	\$4,570,812	\$4,786,808	\$4,924,089	\$5,495,254
14	14 Difference (Row 6 - Row 13)	-\$4,734,456	-\$4,114,496	-\$4,307,676	-\$4,531,353	-\$5,054,605

Notes:

(1) Table E-6, sum of Energy columns "Winter Peak, "Winter Off-Peak", "Summer Peak" and "Summer Off-Peak."

(2) Table E-6, Capacity column "Summer Generation."

(3) Table E-6 , Capacity column "Trans."

(4) Table E-6 , Capacity column "Dist."

(5) Table E-6, sum of Capacity column "Capacity DRIPE" and Energy column "Energy DRIPE."

(7) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Program Implementation Expenses."

(8) Some costs are only at the sector level. They are allocated to programs for the purpose of this analysis by multiplying those sector level costs by the ratio of the

(9) Some costs are only at the portfolio level (EERMC and OER costs). They are allocated to programs for the purpose of this analysis by multiplying those portfolio level program's direct programmatic costs to the sector direct programmatic costs.

costs by the ratio of the program's direct programmatic costs to the all direct programmatic costs. (10) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Customer Contribution." (11) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Shareholder Incentive." This category is allocated to programs for the purpose of this analysis by multiplying the sector level shareholder incentive by the ratio of the program's direct programmatic costs to the sector direct programmatic costs. Omits the

ConnectedSolutions programs that are not eligible for this shareholder incentive

The Narragansett Electric Company

d/b/a National Grid RIPUC Docket No. 5076 Attachment PUC 1-22-26

	Calculation of cost of supply compared to cost of energy efficiency for Electric Low Income MultiFamily Program-Part 3	ost of energy efficier	ncy for Electric Low	Income MultiFamily	Program-Part 3	
	Electric Energy	2021	2022	22	2023	13
			Base Case	High Scenario	Base Case	High Scenario
Ref	rs	q	U	ъ	Ð	-
1	Electric Energy Costs	\$209,025	\$197,898	\$207,793	\$177,055	\$198,656
7	Electric Generation Costs	\$46,896	\$46,260	\$48,573	\$43,952	\$49,314
ε	Cost of supply (sum of Rows 1-2)	\$255,920	\$244,158	\$256,365	\$221,007	\$247,970
4	Program Implementation Expenses (Direct)	\$4,830,800	\$4,214,050	\$4,424,753	\$4,557,458	\$5,113,470
L	Program Implementation Expenses (Distributed from sector					
n	level)	\$29,673	\$34,077	\$35,781	\$37,187	\$41,724
,	Program Implementation Expenses (OER and EERMC					
٥	Distributed from portfolio level)	\$75,243	\$82,674	\$86,264	\$92,745	\$103,362
4	Customer Contribution	0\$	0\$	0\$	0\$	0\$
8	Shareholder Incentive (Distributed from sector level)	\$285,844	\$240,011	\$240,011	\$236,698	\$236,698
6	Cost of energy efficiency (sum of Rows 4-8)	\$5,221,561	\$4,570,812	\$4,786,808	\$4,924,089	\$5,495,254
10	10 Difference (Row 3 - Row 9)	-\$4,965,641	-\$4,326,655	-\$4,530,443	-\$4,703,082	-\$5,247,284

Notes:

(1) Table E-6, sum of Energy columns "Winter Peak, "Winter Off-Peak", "Summer Peak" and "Summer Off-Peak."

(2) Table E-6, Capacity column "Summer Generation.

(4) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Program Implementation Expenses."

(5) Some costs are only at the sector level. They are allocated to programs for the purpose of this analysis by multiplying those sector level costs by the ratio of the

(6) Some costs are only at the portfolio level (EERMC and OER costs). They are allocated to programs for the purpose of this analysis by multiplying those portfolio level costs by the ratio of the program's direct programmatic costs to the all direct programmatic costs. program's direct programmatic costs to the sector direct programmatic costs.

(7) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Customer Contribution."

(8) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Shareholder Incentive." This category is allocated to programs for the purpose of this analysis by multiplying the sector level shareholder incentive by the ratio of the program's direct programmatic costs to the sector direct programmatic costs. Omits the

Connected Solutions programs that are not eligible for this shareholder incentive

The Narragansett Electric Company RIPUC Docket No. 5076 d/b/a National Grid

Calculation of cost of supply compared to cost of energy efficiency for Electric Residential Connected Solutions Program- Part 1 Attachment PUC 1-22-27

	Electric Energy	2021	2022	72	2023	~
	10		Base Case	High Scenario	Base Case	High Scenario
Ref	В	q	J	ъ	ə	+
1	Electric Energy Costs	\$3,155	\$3,781	\$3,781	\$4,073	\$4,073
7	Electric Generation Costs	\$410,153	\$663,514	\$663,514	\$951,332	\$951,332
3	Elecric Transmission Capacity Costs	\$630,324	\$950,343	\$950,343	\$1,280,295	\$1,280,295
4	Electric Distribution Capacity Cost	\$547,380	\$825,288	\$825,288	\$1,111,822	\$1,111,822
2	Natural Gas Costs	0\$	0\$	0\$	0\$	0\$
9	Fuel Costs	0\$	0\$	0\$	0\$	0\$
7	Income Eligible Rate Discount	0\$	0\$	0\$	0\$	0\$
8	Arrearages	0\$	0\$	0\$	0\$	0\$
6	Price Effects	\$8,722,609	\$14,056,466	\$14,056,466	\$20,010,306	\$20,010,306
10	10 Non-embedded Greenhouse Gas Reduction Costs	\$1,670	\$2,166	\$2,166	\$2,341	\$2,341
11	11 Non-embedded Nitrous Oxide (NOx Costs)	0\$	0\$	0\$	0\$	0\$
12	12 Reliability Costs	\$76,396	\$115,182	\$115,182	\$155,172	\$155,172
13	13 Cost of supply (Sum of rows 1-12)	\$10,391,687	\$16,616,740	\$16,616,740	\$23,515,342	\$23,515,342
14	Program Implementation Expenses (Direct)	\$1,959,725	\$2,527,448	\$2,527,448	\$3,064,817	\$3,064,817
15	Program Implementation Expenses (Distributed from sector level)	\$45,956	\$74,526	\$75,042	\$82,619	\$83,852
16	Program Implementation Expenses (OER and EERMC Distributed from portfolio level)	\$30,524	\$49,585	\$49,274	\$62,370	\$61,951
17	Customer Contribution	0\$	0\$	0\$	0\$	0\$
18	18 Shareholder Incentive (Distributed from sector level)	0\$	0\$	0\$	0\$	0\$
19	19 Cost of energy efficiency (Sum of rows 14-18)	\$2,036,205	\$2,651,559	\$2,651,764	\$3,209,805	\$3,210,620
20	20 Difference (Row 13 - Row 19)	\$8,355,482	\$13,965,182	\$13,964,976	\$20,305,537	\$20,304,722

(1) All values are from the Electric Benefit-Cost Model, 2021-2023 Plan. For 2021, Row (1) Table E-6B, sum of Energy columns "Summer Peak" and "Summer Off-Peak"

(2) Table E-6B , Capacity column "Summer Generation." (3) Table E-6B , Capacity column "Trans."

(4) Table E-6B, Capacity column "Dist."

(6) Not applicable for demand response (5) Not applicable for demand response

(7) Not applicable for demand response

(8) Not applicable for demand response (9) Table E-68, sum of Capacity column "Capacity DRIPE" and Energy column "Energy DRIPE."

(10) Table E-6B, Societal column "Carbon."

(11) Not applicable for demand response

(12) Table E-6B , Capacity column "Reliability."

(14) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Program Implementation Expenses."

(15) Some costs are only at the sector level. They are allocated to programs for the purpose of this analysis by multiplying those sector level costs by the ratio of the

(16) Some costs are only at the portfolio level (EERMC and OER costs). They are allocated to programs for the purpose of this analysis by multiplying those portfolio level costs by the ratio of the program's direct programmatic costs to the all direct programmatic costs

(17) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Customer Contribution."

18) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Shareholder Incentive." This category is allocated to programs for the purpose of this analysis by multiplying the sector level shareholder incentive by the ratio of the program's direct programmatic costs to the sector direct programmatic costs. Omits the Connected Solutions programs that are not eligible for this shareholder incentive

The Narragansett Electric Company Attachment PUC 1-22-27 RIPUC Docket No. 5076 d/b/a National Grid

Ref 1 Electric Energy Costs 2 Electric Generation Costs 3 Electric Transmission Capacity Costs 4 Electric Distribution Capacity Costs 5 Price Effects 6 Cost of supply (Sum of Rows 1-5) 7 Program Implementation Expenses (Distribut Program Implementation Expenses (Distribut level) 8 Program Implementation Expenses (Distribut level) 9 Program Implementation Expenses (Distribut level) 10 Customer Contribution 11 Shareholder Incentive (Distributed from sector 11 Shareholder Incentive (Sham of Rows 7-11)	Electric Energy 2021 2022 20	2021	2022	22	2023	23
	10		Base Case	High Scenario	Base Case	High Scenario
1 Electric Energy Costs 2 Electric Generation Costs 3 Elecric Transmission Capacity C 4 Electric Distribution Capacity C 5 Price Effects 6 Cost of supply (Sum of Rows 1-7 Program Implementation Expert Program Impleme	B	q	၁	ъ	a	f
 2 Electric Generation Costs 3 Elecric Transmission Capacity C 4 Electric Distribution Capacity C 5 Price Effects 6 Cost of supply (Sum of Rows 1-7) 7 Program Implementation Experentation Experimentation Experimenta	Costs	\$3,155	\$3,781	\$3,781	\$4,073	\$4,073
 Elecric Transmission Capacity C Electric Distribution Capacity C Price Effects Cost of supply (Sum of Rows 1-7) Program Implementation Experence Involved Program Implementation Experence Program Implementation Experence Program Implementation Experence Distributed from portfolio level Customer Contribution Shareholder Incentive (Distribution Shareholder Incentive (Distribution Shareholder Incentive (Distribution Applemented Row 6 - Row 13) Difference (Row 6 - Row 13) 	ion Costs	\$410,153	\$663,514	\$663,514	\$951,332	\$951,332
 4 Electric Distribution Capacity CC 5 Price Effects 6 Cost of supply (Sum of Rows 1-7) 7 Program Implementation Experence In the Internation Experence In the Internation Internation	sion Capacity Costs	\$630,324	\$950,343	\$950,343	\$1,280,295	\$1,280,295
Existe Effects Cost of supply (Sum of Rows 1- Program Implementation Exper Program Implementation Exper Investion Program Implementation Exper Program Implementation Exper Program Implementation Exper Program Implementation Exper Distributed from portfolio level Distributed from portfolio level Customer Contribution Is A Cast of energy efficiency (Sum Is Cast of energy efficiency (Sum Is Difference (Row 6 - Row 13)	tion Capacity Cost	\$547,380	\$825,288	\$825,288	\$1,111,822	\$1,111,822
6 Cost of supply (Sum of Rows 1- 7 Program Implementation Exper 8 Program Implementation Exper 9 Program Implementation Exper 9 Distributed from portfolio level 10 Customer Contribution 11 Shareholder Incentive (Distribu		\$8,722,609	\$14,056,466	\$14,056,466	\$20,010,306	\$20,010,306
Program implementation Exper Program implementation Exper level) Program implementation Exper Distributed from portfolio level Customer Contribution LI Shareholder incartibution LI Shareholder incartibution LI Cost of energy efficiency (Sum 13) Lifference (Row 6 - Row 13)	Sum of Rows 1-5)	\$10,313,621	\$16,499,392	\$16,499,392	\$23,357,829	\$23,357,829
Program implementation Exper level) Program implementation Exper Distributed from portfolio level Customer Contribution 11 Shareholder Incentive (Distribution 13 Cost of energy efficiency (Sum 14 Difference (Row 6 - Row 13)	nentation Expenses (Direct)	\$1,959,725	\$2,527,448	\$2,527,448	\$3,064,817	\$3,064,817
Program Implementation Experimental Distributed from portfolio level Customer Contribution 11 Shareholder Incentive (Distributed Cost of energy efficiency (Sum 14 Difference (Row 6 - Row 13)	Program Implementation Expenses (Distributed from sector level)	sector \$45,956	\$74,526	\$75,042	\$82,619	\$83,852
10 Customer Contribution 11 Shareholder Incentive (Distribur 13 Cost of energy efficiency (Sum 14 Difference (Row 6 - Row 13)	Program Implementation Expenses (OER and EERMC Distributed from portfolio level)	\$30,524	\$49,585	\$49,274	\$62,370	\$61,951
 11 Shareholder Incentive (Distribution) 13 Cost of energy efficiency (Sumulation) 14 Difference (Row 6 - Row 13) 	ibution	0\$	0\$	0\$	0\$	0\$
13 Cost of energy efficiency (Sum 14 Difference (Row 6 - Row 13)	Shareholder Incentive (Distributed from sector level)	0\$	0\$	0\$	0\$	0\$
14 Difference (Row 6 - Row 13)	efficiency (Sum of Rows 7-11)	\$2,036,205	\$2,651,559	\$2,651,764	\$3,209,805	\$3,210,620
(a=) a	v 6 - Row 13)	\$8,277,416	\$13,847,834	\$13,847,628	\$20,148,023	\$20,147,209

(1) All values are from the Electric Benefit-Cost Model, 2021-2023 Plan. For 2021, Row (1) Table E-68, sum of Energy columns "Summer Peak" and "Summer Off-Peak"

(2) Table E-6B , Capacity column "Summer Generation."

Notes:

(3) Table E-6B, Capacity column "Trans."

(4) Table E-6B, Capacity column "Dist."

(5) Table E-6B, sum of Capacity column "Capacity DRIPE" and Energy column "Energy DRIPE."

(7) Attachment 2 Tables 1-5, column "Program Implementation Expenses."

(8) Some costs are only at the sector level. They are allocated to programs for the purpose of this analysis by multiplying those sector level costs by the ratio of the program's direct programmatic costs to the sector direct programmatic costs.

(9) Some costs are only at the portfolio level (EERMC and OER costs). They are allocated to programs for the purpose of this analysis by multiplying those portfolio level costs by the ratio of the program's direct programmatic costs to the all direct programmatic costs.

(10) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Customer Contribution."

(11) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Shareholder Incentive." This category is allocated to programs for the purpose of this analysis by multiplying the sector level shareholder incentive by the ratio of the program's direct programmatic costs to the sector direct programmatic costs. Omits the

Connected Solutions programs that are not eligible for this shareholder incentive

The Narragansett Electric Company RIPUC Docket No. 5076 Attachment PUC 1-22-27 d/b/a National Grid

	Calculation of cost of supply compared to cost of energy efficiency for Electric Residential Connected Solutions Program- Part 3	of energy efficiency	for Electric Resident	ial ConnectedSolutic	ons Program- Part 3	
	Electric Energy	2021	2022	22	2023	13
			Base Case	High Scenario	Base Case	High Scenario
Ref	ro .	q	ပ	ъ	е	¥
1	Electric Energy Costs	\$3,155	\$3,781	\$3,781	\$4,073	\$4,073
7	Electric Generation Costs	\$410,153	\$663,514	\$663,514	\$951,332	\$951,332
က	3 Cost of supply (sum of Rows 1-2)	\$413,307	\$667,295	\$667,295	\$955,405	\$955,405
4	Program Implementation Expenses (Direct)	\$1,959,725	\$2,527,448	\$2,527,448	\$3,064,817	\$3,064,817
2	Program Implementation Expenses (Distributed from sector level)	\$45,956	\$74,526	\$75,042	\$82,619	\$83,852
9	Program Implementation Expenses (OER and EERMC Distributed from portfolio level)	\$30,524	\$49,585	\$49,274	\$62,370	\$61,951
7	7 Customer Contribution	0\$	0\$	0\$	0\$	\$0
8	8 Shareholder Incentive (Distributed from sector level)	0\$	0\$	0\$	0\$	0\$
6	9 Cost of energy efficiency (sum of Rows 4-8)	\$2,036,205	\$2,651,559	\$2,651,764	\$3,209,805	\$3,210,620
10	10 Difference (Row 3 - Row 9)	-\$1,622,898	-\$1,984,264	-\$1,984,469	-\$2,254,400	-\$2,255,214

(1) All values are from the Electric Benefit-Cost Model, 2021-2023 Plan. For 2021, Row (1) Table E-6B, sum of Energy columns "Summer Peak" and "Summer Off-Peak." (2) Table E-6B, Capacity column "Summer Generation."

Notes:

(4) Attachment 2 Tables 1-5, column "Program Implementation Expenses."

(5) Some costs are only at the sector level. They are allocated to programs for the purpose of this analysis by multiplying those sector level costs by the ratio of the program's direct programmatic costs to the sector direct programmatic costs.

(6) Some costs are only at the portfolio level (EERMC and OER costs). They are allocated to programs for the purpose of this analysis by multiplying those portfolio level costs by the ratio of the program's direct programmatic costs to the all direct programmatic costs.

(7) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Customer Contribution."

(8) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Shareholder Incentive." This category is allocated to programs for the purpose of this analysis by multiplying the sector level shareholder incentive by the ratio of the program's direct programmatic costs to the sector direct programmatic costs. Omits the

Connected Solutions programs that are not eligible for this shareholder incentive

The Narragansett Electric Company Attachment PUC 1-22-28 RIPUC Docket No. 5076 d/b/a National Grid

Ref 1 Electric Energy Costs 2 Electric Generation Costs 3 Electric Transmission Capacity Cost 4 Electric Distribution Capacity Cost 5 Natural Gas Costs 6 Fuel Costs 7 Income Eligible Rate Discount 8 Arrearages 9 Price Effects 10 Non-embedded Greenhouse Gas Reduction Costs 11 Non-embedded Greenhouse Gas Reduction Costs 12 Reliability Costs 13 Cost of supply (Sum of rows 1-12) 14 Program Implementation Expenses (Discributed from sector level) 15 Program Implementation Expenses (OER and EERMC Distributed from portfolio level) 16 Distributed from portfolio level) 17 Customer Contribution 18 Shareholder Incentive (Distributed from sector level)						
		2021	2022		2023	
			Base Case	High Scenario	Base Case	High Scenario
 Electric Energy Costs Electric Generation Costs Electric Generation Costs Electric Transmission Capacity Costs Electric Distribution Capacity Costs Natural Gas Costs Fuel Costs Income Eligible Rate Discount Arrearages Price Effects Non-embedded Greenhouse Gas Reduction C Non-embedded Nitrous Oxide (NOx Costs) Reliability Costs Corg an Implementation Expenses (Direct) Program Implementation Expenses (Disct) Program Implementation Expenses (Disct) Program Implementation Expenses (Distributed from portfolio level) Customer Contribution Shareholder Incentive (Distributed from sect. 		q	U	ъ	e	f
2 Electric Generation Costs 3 Elecric Transmission Capacity Costs 4 Electric Distribution Capacity Cost 5 Natural Gas Costs 6 Fuel Costs 7 Income Eligible Rate Discount 8 Arrearages 9 Price Effects 10 Non-embedded Greenhouse Gas Reduction C 11 Non-embedded Nitrous Oxide (NOX Costs) 12 Reliability Costs 13 Cost of supply (Sum of rows 1-12) 14 Program Implementation Expenses (Direct) 15 Program Implementation Expenses (Disrbut) 16 Program Implementation Expenses (Disrbut) 17 Customer Contribution 18 Shareholder Incentive (Distributed from sect.		0\$	0\$	0\$	0\$	\$0
Electric Distribution Capacity Costs Natural Gas Costs Natural Gas Costs Income Eligible Rate Discount Non-embedded Greenhouse Gas Reduction C Income Eligible Rate Discount Non-embedded Greenhouse Gas Reduction C Income Eligible Rate Discount Reliability Costs Cost of supply (Sum of rows 1-12) Reliability Costs Reliability		\$699,542	\$855,677	\$1,155,164	\$1,009,861	\$1,551,450
 4 Electric Distribution Capacity Cost 5 Natural Gas Costs 6 Fuel Costs 7 Income Eligible Rate Discount 8 Arrearages 9 Price Effects 10 Non-embedded Greenhouse Gas Reduction C 11 Non-embedded Nitrous Oxide (NOx Costs) 12 Reliability Costs 13 Cost of supply (Sum of rows 1-12) 14 Program Implementation Expenses (Direct) 15 Program Implementation Expenses (Discribut Program Implementation Expenses (Discributed from portfolio level) 16 Distributed from portfolio level) 17 Customer Contribution 18 Shareholder Incentive (Distributed from sect. 		\$3,690,533	\$4,151,850	\$5,604,997	\$4,613,166	\$7,087,207
 b Natural Gas Costs c Fuel Costs 7 Income Eligible Rate Discount 8 Arrearages 9 Price Effects 10 Non-embedded Greenhouse Gas Reduction C 11 Non-embedded Nitrous Oxide (NOx Costs) 12 Reliability Costs 13 Cost of supply (Sum of rows 1-12) 14 Program Implementation Expenses (Direct) 15 Program Implementation Expenses (OER and Distributed from portfolio level) 16 Distributed from portfolio level) 17 Customer Contribution 18 Shareholder Incentive (Distributed from sect. 		\$3,204,898	\$3,605,510	\$4,867,439	\$4,006,123	\$6,154,606
 Fuel Costs Income Eligible Rate Discount A Arrearages Price Effects IO Non-embedded Greenhouse Gas Reduction C I1 Non-embedded Nitrous Oxide (NOx Costs) I2 Reliability Costs I3 Cost of supply (Sum of rows 1-12) I4 Program Implementation Expenses (Direct) I5 Program Implementation Expenses (Distribut Brogram Implementation Expenses (OER and Distributed from portfolio level) I7 Customer Contribution I8 Shareholder Incentive (Distributed from sect.) 		0\$	0\$	0\$	0\$	\$0
Arrearages Arrearages Price Effects Non-embedded Greenhouse Gas Reduction C In Non-embedded Nitrous Oxide (NOX Costs) Reliability Costs Cost of supply (Sum of rows 1-12) Reliability Costs Cost of supply (Sum of rows 1-12) Reliability Costs Cost of supply (Sum of rows 1-12) Revey Implementation Expenses (Distribut Program Implementation Expenses (Distribut Bevel) Program Implementation Expenses (Distribut Bevel) Program Implementation Expenses (Distribut Bevel) Revel) Revel) Customer Contribution Remetholder Incentive (Distributed from sect.		0\$	0\$	0\$	0\$	0\$
Arrearages Price Effects Non-embedded Greenhouse Gas Reduction C Non-embedded Nitrous Oxide (NOX Costs) Reliability Costs Cost of Supply (Sum of rows 1-12) Reliability Costs Cost of Supply (Sum of rows 1-12) Program Implementation Expenses (Direct) Program Implementation Expenses (Disribut level) Revel) Customer Contribution Customer Contribution Shareholder Incentive (Distributed from section of the program of the p		0\$	0\$	0\$	0\$	0\$
9 Price Effects 10 Non-embedded Greenhouse Gas Reduction C 11 Non-embedded Nitrous Oxide (NOx Costs) 12 Reliability Costs 13 Cost of supply (Sum of rows 1-12) 14 Program Implementation Expenses (Direct) 15 Program Implementation Expenses (Disribut (evel) 16 Program Implementation Expenses (DER and Distributed from portfolio level) 17 Customer Contribution 18 Shareholder Incentive (Distributed from sect		0\$	0\$	0\$	0\$	\$0
10 Non-embedded Greenhouse Gas Reduction C 11 Non-embedded Nitrous Oxide (NOx Costs) 12 Reliability Costs 13 Cost of Supply (Sum of rows 1-12) 14 Program Implementation Expenses (Direct) 15 Program Implementation Expenses (Distribut (sev.)) 16 Program Implementation Expenses (OER and Distributed from portfolio level) 17 Customer Contribution		\$14,874,366	\$18,124,874	\$24,468,580	\$21,239,138	\$32,629,687
11 Non-embedded Nitrous Oxide (NOX Costs) 12 Reliability Costs 13 Cost of supply (Sum of rows 1-12) 14 Program Implementation Expenses (Direct) 15 Program Implementation Expenses (Distribut level) 16 Distributed from portfolio level) 17 Customer Contribution 18 Shareholder Incentive (Distributed from sect	tion Costs	0\$	0\$	0\$	0\$	\$0
12 Reliability Costs 13 Cost of supply (Sum of rows 112) 14 Program Implementation Expenses (Direct) 15 Program Implementation Expenses (Oistribut) 16 Program Implementation Expenses (OER and Distributed from portfolio level) 17 Customer Contribution 18 Shareholder Incentive (Distributed from sect.	ts)	0\$	0\$	0\$	0\$	0\$
13 Cost of supply (Sum of rows 1-12) 14 Program Implementation Expenses (Direct) 15 Program Implementation Expenses (Distribut level) 16 Program Implementation Expenses (OER and Distributed from portfolio level) 17 Customer Contribution		\$447,295	\$503,206	\$679,329	\$559,118	\$858,973
14 Program Implementation Expenses (Direct) 15 Program Implementation Expenses (Distribut level) 16 Program Implementation Expenses (OER and Distributed from portfolio level) 17 Customer Contribution 18 Shareholder Incentive (Distributed from sect		\$22,916,634	\$27,241,117	\$36,775,508	\$31,427,406	\$48,281,924
Program Implementation Expenses (Distribut level) Program Implementation Expenses (OER and Distributed from portfolio level) Customer Contribution R Shareholder Incentive (Distributed from sect	ict)	\$2,990,106	\$3,534,384	\$4,771,418	\$4,111,516	\$6,316,521
16 Program Implementation Expenses (OER and Distributed from portfolio level) 17 Customer Contribution 18 Shareholder Incentive (Distributed from sect	ributed from sector	\$316,893	\$300,609	\$399,724	\$333,536	\$501,526
17 Customer Contribution 18 Shareholder Incentive (Distributed from sect	R and EERMC	\$46,573	\$69,340	\$93,022	\$83,670	\$127,680
18 Shareholder Incentive (Distributed from sectr		0\$	0\$	0\$	0\$	\$0
	sector level)	0\$	0\$	0\$	0\$	0\$
19 Cost of energy efficiency (Sum of rows 14-18)	14-18)	\$3,353,572	\$3,904,333	\$5,264,165	\$4,528,722	\$6,945,728
20 Difference (Row 13 - Row 19)		\$19,563,062	\$23,336,784	\$31,511,344	\$26,898,685	\$41,336,196

(1) All values are from the Electric Benefit-Cost Model, 2021-2023 Plan. For 2021, Row (1) Table E-68, sum of Energy columns "Summer Peak" and "Summer Off-Peak."

(2) Table E-6B, Capacity column "Summer Generation."

(3) Table E-6B , Capacity column "Trans." (4) Table E-6B , Capacity column "Dist."

(5) Not applicable for demand response

(6) Not applicable for demand response (7) Not applicable for demand response

(8) Not applicable for demand response

(9) Table E-6B, sum of Capacity column "Capacity DRIPE" and Energy column "Energy DRIPE."

(10) Table E-6B, Societal column "Carbon."

(12) Table E-6B , Capacity column "Reliability." (11) Not applicable for demand response

(14) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Program Implementation Expenses."

(15) Some costs are only at the sector level. They are allocated to programs for the purpose of this analysis by multiplying those sector level costs by the ratio of the program's direct programmatic costs to the sector direct programmatic costs.

(16) Some costs are only at the portfolio level (EERMC and OER costs). They are allocated to programs for the purpose of this analysis by multiplying those portfolio level costs by the ratio of the program's direct programmatic costs to the all direct programmatic costs.

(17) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Customer Contribution."

18) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Shareholder Incentive." This category is allocated to programs for the purpose of this analysis by multiplying the sector level shareholder incentive by the ratio of the program's direct programmatic costs to the sector direct programmatic costs. Omits the Connected Solutions programs that are not eligible for this shareholder incentive

The Narragansett Electric Company d/b/a National Grid

Attachment PUC 1-22-28 RIPUC Docket No. 5076

	Calculation of cost of supply compared to cost of energy efficiency for Electric Commercial ConnectedSolutions Program- Part 2	of energy efficiency	for Electric Commerc	ial ConnectedSoluti	ons Program- Part 2	
	Electric Energy	2021	2022	77	2023	23
			Base Case	High Scenario	Base Case	High Scenario
Ref	в	q	C	p	е	f
1	Electric Energy Costs	0\$	0\$	0\$	0\$	0\$
7	Electric Generation Costs	\$699,542	\$855,677	\$1,155,164	\$1,009,861	\$1,551,450
3	Elecric Transmission Capacity Costs	\$3,690,533	\$4,151,850	\$5,604,997	\$4,613,166	\$7,087,207
4	Electric Distribution Capacity Cost	\$3,204,898	\$3,605,510	\$4,867,439	\$4,006,123	\$6,154,606
2	Price Effects	\$14,874,366	\$18,124,874	\$24,468,580	\$21,239,138	\$32,629,687
9	Cost of supply (Sum of Rows 1-5)	\$22,469,339	\$26,737,911	\$36,096,180	\$30,868,288	\$47,422,951
7	Program Implementation Expenses (Direct)	\$2,990,106	\$3,534,384	\$4,771,418	\$4,111,516	\$6,316,521
8	Program Implementation Expenses (Distributed from sector level)	\$316,893	\$300,609	\$399,724	\$333,536	\$501,526
6	Program Implementation Expenses (OER and EERIMC Distributed from portfolio level)	\$46,573	\$69,340	\$93,022	\$83,670	\$127,680
10	10 Customer Contribution	0\$	0\$	\$0	\$	\$0
11	11 Shareholder Incentive (Distributed from sector level)	0\$	0\$	\$0	0\$	\$0
13	13 Cost of energy efficiency (Sum of Rows 7-11)	\$3,353,572	\$3,904,333	\$5,264,165	\$4,528,722	\$6,945,728
14	14 Difference (Row 6 - Row 13)	\$19,115,767	\$22,833,578	\$30,832,015	\$26,339,566	\$40,477,223

(1) All values are from the Electric Benefit-Cost Model, 2021-2023 Plan. For 2021, Row (1) Table E-6B, sum of Energy columns "Summer Peak" and "Summer Off-Peak."

(2) Table E-6B , Capacity column "Summer Generation." (3) Table E-6B , Capacity column "Trans."

(4) Table E-6B, Capacity column "Dist."

(5) Table E-6B, sum of Capacity column "Capacity DRIPE" and Energy column "Energy DRIPE."

(7) Attachment 2 Tables 1-5, column "Program Implementation Expenses."

program's direct programmatic costs to the sector direct programmatic costs.

(8) Some costs are only at the sector level. They are allocated to programs for the purpose of this analysis by multiplying those sector level costs by the ratio of the

(9) Some costs are only at the portfolio level (EERMC and OER costs). They are allocated to programs for the purpose of this analysis by multiplying those portfolio level costs by the ratio of the program's direct programmatic costs to the all direct programmatic costs.

(10) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Customer Contribution."

(11) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Shareholder Incentive." This category is allocated to programs for the purpose of this analysis by multiplying the sector level shareholder incentive by the ratio of the program's direct programmatic costs to the sector direct programmatic costs. Omits the

Connected Solutions programs that are not eligible for this shareholder incentive

The Narragansett Electric Company d/b/a National Grid

Attachment PUC 1-22-28 RIPUC Docket No. 5076

	_	cardiation of cost of supply compared to cost of energy for Electric Commerced Solutions Frogram- rail 3	i ellergy ellicielley i	ol Electric Colliner	iai collifertedoolatii	Jiis ri Ugiaiii- rai t 3	
		Electric Energy	2021	2022	22	2023	13
				Base Case	High Scenario	Base Case	High Scenario
~	Ref	е	q	U	ъ	Ð	f
	1	Electric Energy Costs	0\$	0\$	0\$	0\$	0\$
	7	Electric Generation Costs	\$699,542	\$855,677	\$1,155,164	\$1,009,861	\$1,551,450
	3	3 Cost of supply (sum of Rows 1-2)	\$699,542	\$855,677	\$1,155,164	\$1,009,861	\$1,551,450
	4	Program Implementation Expenses (Direct)	\$2,990,106	\$3,534,384	\$4,771,418	\$4,111,516	\$6,316,521
	и	Program Implementation Expenses (Distributed from sector					
	n	level)	\$316,893	\$300,609	\$399,724	\$333,536	\$501,526
	٧	Program Implementation Expenses (OER and EERMC	\$46 573	\$69 340	\$63 022	029 835	\$127 680
	,	Distributed from portfolio level)	5 15 15 15	01000		20,000	22,720
	7	Customer Contribution	0\$	0\$	0\$	\$0	\$0
	8	Shareholder Incentive (Distributed from sector level)	0\$	0\$	0\$	\$0	\$0
	6	Cost of energy efficiency (sum of Rows 4-8)	\$3,353,572	\$3,904,333	\$5,264,165	\$4,528,722	\$6,945,728
	10	10 Difference (Row 3 - Row 9)	-\$2,654,030	-\$3,048,656	-\$4,109,001	-\$3,518,860	-\$5,394,278
Z	Notes:	;s:					

(1) All values are from the Electric Benefit-Cost Model, 2021-2023 Plan. For 2021, Row (1) Table E-68, sum of Energy columns "Summer Peak" and "Summer Off-Peak"

(2) Table E-6B , Capacity column "Summer Generation."

(4) Attachment 2 Tables 1-5, column "Program Implementation Expenses."

(5) Some costs are only at the sector level. They are allocated to programs for the purpose of this analysis by multiplying those sector level costs by the ratio of the program's direct programmatic costs to the sector direct programmatic costs.

(6) Some costs are only at the portfolio level (EERMC and OER costs). They are allocated to programs for the purpose of this analysis by multiplying those portfolio level costs by the ratio of the program's direct programmatic costs to the all direct programmatic costs.

(7) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Customer Contribution."

(8) 2021-2023 Three-Year Plan Attachment 2 Tables 1-5, column "Shareholder Incentive." This category is allocated to programs for the purpose of this analysis by multiplying the sector level shareholder incentive by the ratio of the program's direct programmatic costs to the sector direct programmatic costs. Omits the Connected Solutions programs that are not eligible for this shareholder incentive

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 5076
Attachment PUC 1-22-29
Summary of Cost of Supply Calculations for Electric Portfolio and Programs

		Summar	Summary of Cost of Supply Calculations for Electric Portfolio and Programs	ns tor Electric Por	rollo and Progra	ms		
				2021	2022	22	2023	23
Sector	Portfolio or Program Category	Analysis Version	Cost Component		Base Case	High Scenario	Base Case	High Scenario
			Cost of Supply	\$263,720,046	\$289,798,366	\$310,800,538	\$323,075,891	\$370,059,692
		Variant 1	Cost of Energy Efficiency	\$140,741,806	\$162,392,912	\$170,913,264	\$176,141,472	\$197,659,174
			Difference	\$122,978,239	\$127,405,453	\$139,887,274	\$146,934,419	\$172,400,518
			Cost of Supply	\$213,332,326	\$250,242,338	\$268,433,462	\$287,839,656	\$327,513,014
Portfolio	Electric Portfolio	Variant 2	Cost of Energy Efficiency	\$140,741,806	\$162,392,912	\$170,913,264	\$176,141,472	\$197,659,174
			Difference	\$72,590,520	\$87,849,425	\$97,520,198	\$111,698,185	\$129,853,840
			Cost of Supply	\$97,914,122	\$117,714,217	\$122,743,292	\$136,358,789	\$149,364,542
		Variant 3	Cost of Energy Efficiency	\$140,741,806	\$162,392,912	\$170,913,264	\$176,141,472	\$197,659,174
			Difference	-\$42,827,684	-\$44,678,695	-\$48,169,972	-\$39,782,682	-\$48,294,632
				2021	2022	22	2023	23
Sector	Portfolio or Program Category	Analysis Version	Category		Base Case	High Scenario	Base Case	High Scenario
			Cost of Supply	\$4,234,013	\$4,367,127	\$4,585,483	\$4,761,178	\$5,342,043
		Variant 1	Cost of Energy Efficiency	\$2,543,563	\$2,384,467	\$2,500,000	\$2,508,197	\$2,806,147
			Difference	\$1,690,450	\$1,982,659	\$2,085,484	\$2,252,981	\$2,535,897
	N ci+cobiood		Cost of Supply	\$1,847,633	\$1,890,712	\$1,985,248	\$2,105,064	\$2,361,883
Residential	Constitution	Variant 2	Cost of Energy Efficiency	\$2,543,563	\$2,384,467	\$2,500,000	\$2,508,197	\$2,806,147
	COLISTIACTION		Difference	-\$695,930	-\$493,755	-\$514,752	-\$403,133	-\$444,264
			Cost of Supply	\$1,302,056	\$1,323,530	\$1,389,707	\$1,488,014	\$1,669,552
		Variant 3	Cost of Energy Efficiency	\$2,543,563	\$2,384,467	\$2,500,000	\$2,508,197	\$2,806,147
			Difference	-\$1,241,507	-\$1,060,937	-\$1,110,293	-\$1,020,183	-\$1,136,595
				2021	2022		2023	23
	Portfolio or Program	Analysis			Baco Caco	Uigh Coppario	Baco	Lich Contrio
Sector	Category	Version	Category		Dase case	ingii seellano	Dase Case	ingii Sceliaiio
			Cost of Supply	\$8,129,252	\$10,769,667	\$11,308,150	\$12,748,506	\$14,303,827
		Variant 1	Cost of Energy Efficiency	\$5,123,453	\$6,695,970	\$7,018,707	\$7,686,144	\$8,591,506
			Difference	\$3,005,799	\$4,073,697	\$4,289,443	\$5,062,362	\$5,712,321
			Cost of Supply	\$5,641,403	\$7,471,578	\$7,845,157	\$8,915,864	\$10,003,602
Residential	Energy Star® HVAC	Variant 2	Cost of Energy Efficiency	\$5,123,453	\$6,695,970	\$7,018,707	\$7,686,144	\$8,591,506
			Difference	\$517,950	\$775,608	\$826,449	\$1,229,720	\$1,412,096
			Cost of Supply	\$3,704,645	\$4,985,142	\$5,234,399	\$5,993,981	\$6,725,248
		Variant 3	Cost of Energy Efficiency	\$5,123,453	\$6,695,970	\$7,018,707	\$7,686,144	\$8,591,506
			Difference	-\$1,418,808	-\$1,710,828	-\$1,784,308	-\$1,692,163	-\$1,866,258

				2021	20	2022	2023	23
	Portfolio or Program	Analysis						
Sector	Category	Version	Category		Base Case	High Scenario	Base Case	High Scenario
			Cost of Supply	\$16,363,560	\$17,597,648	\$18,477,531	\$21,366,775	\$23,973,528
		Variant 1	Cost of Energy Efficiency	\$19,406,455	\$20,525,032	\$21,504,454	\$24,593,375	\$27,477,428
			Difference	-\$3,042,895	-\$2,927,384	-\$3,026,924	-\$3,226,600	-\$3,503,900
			Cost of Supply	\$2,534,073	\$2,368,134	\$2,486,541	\$2,652,302	\$2,975,883
Residential	EnergyWise	Variant 2	Cost of Energy Efficiency	\$19,406,455	\$20,525,032	\$21,504,454	\$24,593,375	\$27,477,428
			Difference	-\$16,872,382	-\$18,156,898	-\$19,017,913	-\$21,941,073	-\$24,501,545
			Cost of Supply	\$1,215,586	\$1,170,353	\$1,228,871	\$1,350,791	\$1,515,588
		Variant 3	Cost of Energy Efficiency	\$19,406,455	\$20,525,032	\$21,504,454	\$24,593,375	\$27,477,428
			Difference	-\$18,190,869	-\$19,354,679	-\$20,275,583	-\$23,242,584	-\$25,961,840
				2021	20	2022	2023	23
Sector	Portfolio or Program Category	Analysis Version	Category		Base Case	High Scenario	Base Case	High Scenario
			Cost of Supply	\$2,550,032	\$2,492,375	\$2,616,994	\$2,337,555	\$2,622,738
		Variant 1	Cost of Energy Efficiency	\$3,872,868	\$4,297,295	\$4,502,847	\$4,196,000	\$4,689,036
			Difference	-\$1,322,836	-\$1,804,920	-\$1,885,853	-\$1,858,444	-\$2,066,298
	0.1/W		Cost of Supply	\$1,508,704	\$1,456,039	\$1,528,841	\$1,323,544	\$1,485,017
Residential	And+ifamily	Variant 2	Cost of Energy Efficiency	\$3,872,868	\$4,297,295	\$4,502,847	\$4,196,000	\$4,689,036
	Multifallilly		Difference	-\$2,364,165	-\$2,841,256	-\$2,974,006	-\$2,872,456	-\$3,204,019
			Cost of Supply	\$732,254	\$716,040	\$751,842	\$672,233	\$754,245
		Variant 3	Cost of Energy Efficiency	\$3,872,868	\$4,297,295	\$4,502,847	\$4,196,000	\$4,689,036
			Difference	-\$3,140,615	-\$3,581,255	-\$3,751,005	-\$3,523,767	-\$3,934,790
				2021	20	2022	2023	23
Sector	Portfolio or Program Category	Analysis Version	Category		Base Case	High Scenario	Base Case	High Scenario
			Cost of Supply	\$5,889,121	\$5,736,318	\$5,736,318	\$5,725,077	\$5,725,077
		Variant 1	Cost of Energy Efficiency	\$2,887,139	\$5,446,086	\$5,439,587	\$5,418,327	\$5,405,797
			Difference	\$3,001,982	\$290,233	\$296,731	\$306,751	\$319,280
			Cost of Supply	\$4,998,304	\$4,856,201	\$4,856,201	\$4,850,763	\$4,850,763
Residential	Home Energy Reports Variant 2	Variant 2	Cost of Energy Efficiency	\$2,887,139	\$5,446,086	\$5,439,587	\$5,418,327	\$5,405,797
			Difference	\$2,111,165	-\$589,884	-\$583,386	-\$567,563	-\$555,034
			Cost of Supply	\$2,032,919	\$1,890,816	\$1,890,816	\$1,885,378	\$1,885,378
		Variant 3	Cost of Energy Efficiency	\$2,887,139	\$5,446,086		\$5,418,327	\$5,405,797
			Difference	-\$854,220	-\$3,555,269	-\$3,548,771	-\$3,532,948	-\$3,520,419

Sector	Portfolio or Program	Analysis			ì	7707	5707	24
	Category	Version	Mogate		Base Case	High Scenario	Base Case	High Scenario
	category	Version	Category	000	6		4	1
			Cost of Supply	\$4,809,428	20		\$0	0\$
		Variant 1	Cost of Energy Efficiency	\$4,751,998	\$0		\$0	\$0
			Difference	\$57,430	\$0	\$0	\$0	\$(
			Cost of Supply	\$4,865,180	0\$	0\$	0\$	0\$
Residential	Energy Star® Lighting	Variant 2	Cost of Energy Efficiency	\$4,751,998	\$0		0\$	\$0
			Difference	\$113,181	\$0		0\$	\$0
			Cost of Supply	\$2,000,582	\$0		\$0	\$0
		Variant 3	Cost of Energy Efficiency	\$4,751,998	\$0		\$0	. 0\$
			Difference	-\$2.751.416	\$0		\$0\$	\$
				2021	CCUC	"	2	2000
	Portfolio or Program	Analysis		2021	70	77	77	67
Sector	Category	Version	Category		Base Case	High Scenario	Base Case	High Scenario
			Cost of Supply	\$7,284,615	\$7,705,758	\$8,091,046	\$10,461,029	\$11,737,277
		Variant 1	Cost of Energy Efficiency	\$4,251,596	\$4,497,800	\$4,715,274	\$5,793,494	\$6,480,943
			Difference	\$3,033,020	\$3,207,958	\$3,375,772	\$4,667,534	\$5,256,334
			Cost of Supply	\$6,012,943	\$6,374,328	\$6,693,044	\$8,683,707	\$9,743,122
Residential	Residential Consumer	Variant 2	Cost of Energy Efficiency	\$4,251,596	\$4,497,800	\$4,715,274	\$5,793,494	\$6,480,943
	Products		Difference	\$1,761,347	\$1,876,528	\$1,977,770	\$2,890,213	\$3,262,179
			Cost of Supply	\$2,831,002	\$3,011,270	\$3,161,834	\$4,145,167	\$4,650,878
		Variant 3	Cost of Energy Efficiency	\$4,251,596	\$4,497,800	\$4,715,274	\$5,793,494	\$6,480,943
			Difference	-\$1,420,593	-\$1,486,530	-\$1,553,440	-\$1,648,327	-\$1,830,065
				2021	2022	22	20	2023
Sector	Portfolio or Program Category	Analysis Version	Category		Base Case	High Scenario	Base Case	High Scenario
			Cost of Supply	\$30,435,420	\$33,315,962	\$34,981,761	\$29,075,832	\$32,623,093
		Variant 1	Cost of Energy Efficiency	\$10,853,146	\$12,376,783	\$12,961,690	\$11,213,670	\$12,521,933
			Difference	\$19,582,274	\$20,939,179	\$22,020,070	\$17,862,162	\$20,101,159
ا دناعی سستی	I array Common Moure		Cost of Supply	\$25,574,054	\$28,069,762	\$29,473,250	\$24,556,083	\$27,551,932
Commercial &	Large Commercial New	Variant 2	Cost of Energy Efficiency	\$10,853,146	\$12,376,783	\$12,961,690	\$11,213,670	\$12,521,933
IIIII USULIAI	COLISCI ACCIOLI		Difference	\$14,720,908	\$15,692,979	\$16,511,560	\$13,342,413	\$15,029,999
			Cost of Supply	\$14,653,725	\$16,130,625	\$16,937,156	\$14,250,388	\$15,988,939
		Variant 3	Cost of Energy Efficiency	\$10,853,146	\$12,376,783	\$12,961,690	\$11,213,670	\$12,521,933
			Difference	625'008'E\$	\$3,753,842	\$3,975,466	\$3,036,718	\$3,467,006
				2021	20	2022	20	2023
Sector	Portfolio or Program Category	Analysis Version	Category		Base Case	High Scenario	Base Case	High Scenario
			Cost of Supply	\$119,866,064	\$131,210,600	\$137,228,701	\$145,709,660	\$161,601,703
		Variant 1	Cost of Energy Efficiency	\$49,235,885	\$67,072,343	\$70,273,425	\$71,631,438	\$80,052,534
			Difference	\$70,630,179	\$64,138,257	\$66,955,276	\$74,078,222	\$81,549,169
-			Cost of Supply	\$108,092,425	\$134,122,467	\$139,554,004	\$158,101,940	\$172,599,991
Commercial &	Large Commercial	Variant 2	Cost of Energy Efficiency	\$49,235,885	\$67,072,343	\$70,273,425	\$71,631,438	\$80,052,534
Industrial	Retroill		Difference	\$58,856,540	\$67,050,124	\$69,280,579		\$92,547,457
			Cost of Supply	\$57,602,614	\$75,680,842	\$78,479,451	\$92,096,377	\$99,630,29
		Variant 3	Cost of Energy Efficiency	\$49,235,885	\$67,072,343	\$70,273,425	\$71,631,438	\$80,052,534
			Difference	\$8,366,729	\$8,608,500	\$8,206,026	\$20,464,939	\$19,577,759

				2021	20	2022	20	2023
	Portfolio or Program	Analysis						
Sector	Category	Version	Category		Base Case	High Scenario	Base Case	High Scenario
			Cost of Supply	\$15,760,258	\$16,199,902	\$17,009,897	\$17,646,297	\$19,799,150
		Variant 1	Cost of Energy Efficiency	\$12,332,058	\$11,592,634	\$12,142,805	\$12,478,739	\$13,939,584
			Difference	\$3,428,200	\$4,607,268	\$4,867,092	\$5,167,558	995'658'5\$
			Cost of Supply	\$13,787,094	\$14,218,321	\$14,929,237	\$15,547,246	\$17,444,015
Commercial &	Small Business Direct	Variant 2	Cost of Energy Efficiency	\$12,332,058	\$11,592,634		\$12,478,739	\$13,939,584
Industrial	Install	1	Difference	\$1.455,035	\$2.625,687		\$3.068.507	\$3,504,430
			Cost of Supply	\$7.469.068	\$7 710 754	\$8,096,292	\$8,471,057	\$9 504 528
		Variant 3	Cost of Energy Efficiency	\$12,332,058	\$11 592 637	\$12,020,05	\$12,778,739	\$13,939,587
			Difference	-\$4.862.991	-53.881.880		-\$4 007 682	-\$4 435 056
				2031	000	2		2023
	Doutfolio or Drogge	Analysis		707	20	77	707	73
Sector	Fortions of Program Category	Analysis Version	Category		Base Case	High Scenario	Base Case	High Scenario
			Cost of Supply	\$13,506,897	\$14,991,028	\$15,740,579	\$16,812,297	\$18,863,402
		Variant 1	Cost of Energy Efficiency	\$14,872,308	\$16,377,797	\$17,151,737	\$17,959,473	\$20,042,665
			Difference	-\$1,365,411	-\$1,386,770	-\$1,411,158	-\$1,147,176	-\$1,179,263
	Cmood Vime Johns		Cost of Supply	\$5,200,450	\$5,721,176	\$6,007,234	\$6,484,291	\$7,275,377
Income Eligible	Single rarnily - income	Variant 2	Cost of Energy Efficiency	\$14,872,308	\$16,377,797	\$17,151,737	\$17,959,473	\$20,042,665
)	Eligible Services		Difference	-\$9,671,858	-\$10,656,622	-\$11,144,503	-\$11,475,182	-\$12,767,289
			Cost of Supply	\$3,000,902	\$3,327,714	\$3,494,099	\$3,819,131	\$4,285,066
		Variant 3	Cost of Energy Efficiency	\$14,872,308	\$16,377,797	\$17,151,737	\$17,959,473	\$20,042,665
			Difference	-\$11,871,405	-\$13,050,084	ľ	-\$14,140,342	-\$15,757,599
				2021	20	2022	20	2023
Sector	Portfolio or Program Category	Analysis Version	Category		Base Case	High Scenario	Base Case	High Scenario
			Cost of Supply	\$1,583,066	\$1,554,123	\$1,631,829	\$1,488,937	\$1,670,588
		Variant 1	Cost of Energy Efficiency	\$5,221,561	\$4,570,812	\$4,786,808	\$4,924,089	\$5,495,254
			Difference	-\$3,638,495	-\$3,016,690	-\$3,154,979	-\$3,435,152	-\$3,824,666
	واطائما المسومة		Cost of Supply	\$487,105	\$456,316	\$479,132	\$392,736	\$440,649
Income Eligible	Income Eligible	Variant 2	Cost of Energy Efficiency	\$5,221,561	\$4,570,812		\$4,924,089	\$5,495,254
	Multilafilliy		Difference	-\$4,734,456	-\$4,114,496	-\$4,307,676	-\$4,531,353	-\$5,054,605
			Cost of Supply	\$255,920	\$244,158	\$256,365	\$221,007	\$247,970
		Variant 3	Cost of Energy Efficiency	\$5,221,561	\$4,570,812	\$4,786,808	\$4,924,089	\$5,495,254
			Difference	-\$4,965,641	-\$4,326,655	-\$4,530,443	-\$4,703,082	-\$5,247,284
	-	_		2021	20	2022	20	2023
Sector	Portfolio or Program Category	Analysis Version	Category		Base Case	High Scenario	Base Case	High Scenario
			Cost of Supply	\$10,391,687	\$16,616,740	\$16,616,740	\$23,515,342	\$23,515,342
		Variant 1	Cost of Energy Efficiency					
			(Demand Response)	\$2,036,205	\$2,651,559		\$3,209,805	\$3,210,620
			Difference	\$8,355,482	\$13,965,182	\$13,964,976	\$20,305,537	\$20,304,722
			Cost of Supply	\$10,313,621	\$16,499,392	\$16,499,392	\$23,357,829	\$23,357,829
Residential	Residential	Variant 2	Cost of Energy Efficiency	\$2 036 205	\$2 651 550	¢2 651 764	\$3.209.805	\$3 210 620
			Difference	\$8,277,416	\$13,847,834	\$	\$20,148,023	\$20,147,209
			Cost of Supply	\$413,307	\$667,295		\$955,405	
		Variant 3	Cost of Energy Efficiency					
			(Demand Response)	\$2,036,205	\$2,651,559		\$3,209,805	\$3,210,620
			Difference	-\$1,622,898	-\$1,984,264	-\$1,984,469	-\$2,254,400	-\$2,255,214

				2021	2022	22	20	2023
	Portfolio or Program	Analysis						
Sector	Category	Version	Category		Base Case	High Scenario	Base Case	High Scenario
			Cost of Supply	\$22,916,634	\$27,241,117	\$36,775,508	\$31,427,406	\$48,281,924
		1000	Cost of Energy Efficiency					
		Variant 1	(Demand Response)	\$3,353,572	\$3,904,333	\$5,264,165	\$4,528,722	\$6,945,728
			Difference	\$19,563,062	\$23,336,784	\$31,511,344	\$26,898,685	\$41,336,196
			Cost of Supply	\$22,469,339	\$26,737,911	\$36,096,180	\$30,868,288	\$47,422,951
Commercial &	Commercial	C +000000	Cost of Energy Efficiency					
Industrial	ConnectedSolutions	Variant 2	(Demand Response)	\$3,353,572	\$3,904,333	\$5,264,165	\$4,528,722	\$6,945,728
			Difference	\$19,115,767	\$22,833,578	\$30,832,015	\$26,339,566	\$40,477,223
			Cost of Supply	\$699,542	\$855,677	\$1,155,164	\$1,009,861	\$1,551,450
		0,400,407	Cost of Energy Efficiency					
		Valialit 3	(Demand Response)	\$3,353,572	\$3,904,333	\$5,264,165	\$4,528,722	\$6,945,728
			Difference	-\$2,654,030	-\$3,048,656	-\$4,109,001	-\$3,518,860	-\$5,394,278

Notes:
Analysis Version Variant 1 matches to the full cost of supply requested in Part 1 of the request, Variant 2 matches to Part 2 of the Request, and Variant 3 matches to Part 3 of the request.

PUC 1-23

Request:

Referring to footnote 1 to Table E-5A and Table G-5A, please define each of the following terms in the formula used in each table: Energy, Capacity, and Resource Benefits.

Response:

With respect to Table E-5A, the broad categories of Energy, Capacity, and Resource Benefits encompass several subcategories of benefits for calculation of the legacy Total Resource Cost (TRC) Test that was the primary benefit-cost test prior to the introduction of the RI Test.

- "Energy" encompasses the following subcategories of benefits for the electric portfolio: electric energy and electric energy demand reduction induced price effect (DRIPE).
- "Capacity" encompasses the following subcategories of benefits: summer generation, capacity DRIPE, transmission, distribution, reliability.
- "Resource Benefits" encompasses the following subcategories of benefits for the electric portfolio: natural gas, natural gas DRIPE, fuel oil, fuel oil DRIPE, propane, water, and non-resource (non-energy impacts).

With respect to Table G-5A, the broad categories of Energy, Capacity, and Resource Benefits encompass several subcategories of benefits that are similar to those in the electric portfolio but with some changes in categorization to reflect that the natural gas portfolio is being screened.

- "Energy" encompasses the following subcategories of benefits for the natural gas portfolio: natural gas energy, natural gas DRIPE.
- "Capacity" encompasses the following subcategories of benefits: summer generation, capacity DRIPE, transmission, distribution, reliability.
- "Resource benefits encompasses the following subcategories of benefits for the natural gas portfolio: electric energy and electric energy DRIPE, water, and non-resource (non-energy impacts).

PUC 1-24

Request:

Referring to Table E-5 and Table G-5, please provide alternative tables that re-calculate the benefit-cost ratio for each individual program without economic benefits in the calculation.

Response:

Please see Attachment PUC 1-24-1 and PUC 1-24-2 for versions of Table E-5 and G-5, respectively, with economic benefits omitted from the calculation of benefit-cost ratios for each program in 2021.

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5076 Attachment PUC 1-24-1 Page 1 of 1

Attachment PUC 1-24-1 Table E-5 - Omitting Economic Benefits National Grid Calculation of 2021 Program Year Cost-Effectiveness All Dollar Values in (\$000)

	RI Test Benefit/ Cost	Total Benefit without Economic Benefits	Program Implementation Expenses	Customer Contribution	Performance Incentive	¢/Lifetime kWh
Non-Income Eligible Residential						
Residential New Construction	1.785	\$4,283.2	\$1,544.3	\$855.7		13.3
ENERGY STAR® HVAC	1.741	\$8,353.8	\$3,487.8	\$1,311.6		9.4
EnergyWise	0.997	\$17,774.8	\$17,033.3	\$790.4		120.5
EnergyWise Multifamily	1.299	\$4,660.4	\$3,056.8	\$532.0		17.6
Home Energy Reports	2.229	\$5,889.1	\$2,641.7	\$0.0		9.8
ENERGY STAR® Lighting	1.321	\$5,631.3	\$5,274.8	-\$1,012.9		15.9
Residential Consumer Products	1.823	\$7,297.3	\$2,681.2	\$1,321.2		10.5
Residential ConnectedSolutions	5.303	\$10,392.1	\$1,959.7	\$0.0		
Energy Efficiency Education Programs			\$40.0			
Residential Pilots			\$0.0			
Community Based Initiatives - Residential			\$226.2			
Comprehensive Marketing - Residential			\$332.7			
Residential Workforce Development			\$284.7			
Non-Income Eligible Residential SUBTOTAL	1.452	\$64,282.0	\$38,563.3	\$3,798.1	\$1,925.0	21.6
Income Eligible Residential						
Single Family - Income Eligible Services	1.793	\$24,668.8	\$13,759.3	\$0.0		34.9
Income Eligible Multifamily	0.570	\$2,753.7	\$4,830.8	\$0.0		15.2
Income Eligible Workforce Development			\$114.2			
Income Eligible Residential SUBTOTAL	1.385	\$27,422.6	\$18,704.3	\$0.0	\$1,100.0	26.3
Commercial & Industrial						
Large Commercial New Construction	3.429	\$32,213.6	\$8,500.2	\$893.1		5.0
Large Commercial Retrofit	3.349	\$146,524.0	\$31,930.2	\$11,821.8		5.9
Small Business Direct Install	1.730	\$18,690.2	\$8,883.6	\$1,922.8		10.3
Commercial ConnectedSolutions	7.664	\$22,916.6	\$2,990.1	\$0.0		
Commercial Pilots			\$0.0			
Community Based Initiatives - C&I			\$74.5			
Finance Costs			\$5,000.0			
Commercial Workforce Development			\$468.7			
C&I SUBTOTAL	2.939	\$220,344.4	\$57,847.3	\$14,637.7	\$2,475.0	7.0
Regulatory						
OER	İ		\$845.6			
EERMC	İ		\$845.6			
Regulatory SUBTOTAL			\$1,691.1			
TOTAL	2.217	\$312,048.9	\$116,806.0	\$18,435.8	\$5,500.0	10.4

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5076 Attachment PUC 1-24-2 Page 1 of 1

Attachment PUC 1-24-2 Table G-5 - Omitting Economic Benefits National Grid Calculation of 2021 Program Year Cost-Effectiveness All Dollar Values in (\$000)

	Rhode Island		Program			
	Benefit/	Total	Implementation	Customer	Performance	\$/Lifetime
	Cost	Benefit	Expenses	Contribution	Incentive	MMBtu
Non-Income Eligible Residential						
Energy Star® HVAC	1.287	\$10,567.1	\$3,673.0	\$4,539.3		\$12.30
EnergyWise	1.076	\$11,709.7	\$10,063.2	\$816.5		\$19.82
EnergyWise MultiFamily	3.377	\$6,198.9	\$1,491.6	\$344.0		\$12.35
Home Energy Reports	2.988	\$1,347.2	\$450.9	\$0.0		\$4.82
Residential New Construction	0.914	\$1,229.8	\$674.8	\$670.9		\$15.78
Comprehensive Marketing - Residential			\$64.8			
Community Based Initiatives - Residential			\$75.8			
Residential Pilots			\$0.0			
Residential Workforce Development			\$118.3			
Non-Income Eligible Residential Subtotal	1.317	\$31,052.7	\$16,612.4	\$6,370.8	\$ 595.0	\$14.89
Income Eligible Residential						
Single Family - Income Eligible Services	1.953	\$13,159.1	\$6,738.8	\$0.0		\$29.75
Income Eligible Multifamily	2.657	\$8,646.9	\$3.254.1	\$0.0		\$9.24
Income Eligible Workforce Development	2.037	ψ0,040.2	\$49.6			Ψ7.24
Income Eligible Residential Subtotal	2.083	\$21,805.9	\$10,042.5		\$ 425.0	\$17.36
Longo Commondal & Industrial						
Large Commercial & Industrial Large Commercial New Construction	3.348	\$8,681.7	\$2,759.2	-\$166.4		\$5.93
Large Commercial Retrofit	3.739		\$5,169.1	\$3,387.0		\$5.88
Small Business Direct Install	2.382	\$957.8	\$3,109.1	\$5,587.0 \$69.4		\$8.23
	3.009	\$3,121.2	\$953.2 \$953.2	\$84.0		\$8.23 \$7.31
Commercial & Industrial Multifamily Commercial Pilots	3.009	\$5,121.2	\$215.8	\$64.0		\$7.31
Community Based Initiatives - C&I			\$213.8			
Finance Costs			\$0.0			
Commercial Workforce Development			\$164.5			
Commercial & Industrial Subtotal	3.273	\$44,751.6	\$9,619.3	\$3,374.0	\$ 680.0	\$6.24
		, ,	y- 2 00)-		,
Regulatory						
EERMC			\$321.2			
OER			\$321.2			
Regulatory Subtotal			-			
Grand Total	2.018	\$97,610.2	\$36,916.6	\$9,744.8	\$ 1,700.0	\$11.09

PUC 1-25

Request:

Referring to Table E-5A and Table G-5A, please provide alternative tables that re-calculate the benefit-cost ratio for each individual program without the Resource Benefits and the Customer Contribution used in the formula referenced in footnote 1 of each.

Response:

Please see the attached PUC 1-25-1 and PUC 1-25-2 for the alternative tables for Table E-5A and G-5A, respectively.

The Company interprets this question as requesting that the "Resource Benefits" omitted from the alternative E-5A and G-5A are those that are not associated with the direct energy savings from each respective portfolio, as detailed in the response to PUC 1-23. For the alternative versions of E-5A and G-5A the following are omitted:

- Electric alternative Table E-5A omits "Resource Benefits" in the following subcategories of benefits: natural gas, natural gas DRIPE, fuel oil, fuel oil DRIPE, propane, water, and non-resource (non-energy impacts).
- Natural Gas alternative Table G-5A omits "Resource Benefits" in the following subcategories of benefits: electric energy and electric energy DRIPE, fuel oil, fuel oil DRIPE, propane, water, and non-resource (non-energy impacts).
- Alternative Table E-5A and alternative Table G-5A also omit Customer Contribution.

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5076 Attachment PUC 1-25-1 Page 1 of 1

PUC 1-25-1 Table E-5A (Alternative) National Grid Calculation of 2021 Program Year Cost-Effectiveness with TRC Test All Dollar Values in (\$000)

			ı		1	
	TRC		Program			
	Benefit/	Total	Implementation	Customer	Performance	¢/Lifetime
	Cost	Benefit	Expenses	Contribution	Incentive	kWh
Non-Income Eligible Residential	Cost	Denent	Expenses	Contribution	meentive	RVII
Residential New Construction	1.20	\$1.847.9	\$1,544.3			8.5
ENERGY STAR® HVAC	1.62	\$5,642.4				6.8
EnergyWise	0.15	\$2,536.1	\$17,033.3			115.2
EnergyWise Multifamily	0.49	\$1,509.7				15.0
Home Energy Reports	1.90	\$5,008.4				9.8
ENERGY STAR® Lighting	0.92	\$4,872.6	\$5,274.8			19.7
Residential Consumer Products	2.24	\$6,017.9				7.0
Residential ConnectedSolutions	5.30	\$10,390.0	\$1,959.7			
Energy Efficiency Education Programs		,	\$40.0			
Residential Pilots			\$0.0			
Community Based Initiatives - Residential			\$226.2			
Comprehensive Marketing - Residential			\$332.7			
Residential Workforce Development			\$284.7			
Non-Income Eligible Residential SUBTOTAL	0.93	\$37,825.0			\$1,925.0	19.6
Income Eligible Residential						
Single Family - Income Eligible Services	0.38	\$5,202.7	\$13,759.3			34.9
Income Eligible Multifamily	0.10	\$487.4	\$4,830.8			15.2
Income Eligible Workforce Development			\$114.2			
Income Eligible Residential SUBTOTAL	0.29	\$5,690.1	\$18,704.3		\$1,100.0	26.3
Commercial & Industrial					+	
Large Commercial New Construction	3.01	\$25,583.1	\$8,500.2			4.5
Large Commercial Retrofit	3.39	\$108,149.3	\$31,930.2			4.3
Small Business Direct Install	1.55	\$13,792.6				8.4
Commercial ConnectedSolutions	7.66	\$22,916.6				0
Commercial Pilots	7100	\$22, >10.0	\$0.0			
Community Based Initiatives - C&I			\$74.5			
Finance Costs			\$5,000.0			
Commercial Workforce Development			\$468.7			
C&I SUBTOTAL	2.83	\$170,441.7	\$57,847.3		\$2,475.0	5.6
		·			·	
Regulatory						
OER			\$845.6			
EERMC			\$845.6			
Regulatory SUBTOTAL			\$1,691.1			
TOTAL	1.75	\$213,956.9	\$116,806.0		\$5,500.0	8.9

Notes:

This alternative version of Table E-5A omits the following benefit categories natural gas, natural gas DRIPE, fuel oil, fuel oil DRIPE, propane, water, and non-resource (non-energy impacts). It also omits customer contribution from the costs.

PUC 1-25-2 Table G-5A (Alternative) National Grid

Calculation of 2021 Program Year Cost-Effectiveness with TRC Test All Dollar Values in (\$000)

	TRC	70.4.1	Program	G 4	D 6	ф/Т •е 4•
	Benefit/	Total	Implementation		Performance	
N I EP OLD OLD OLD	Cost	Benefit	Expenses	Contribution	Incentive	MMBtu
Non-Income Eligible Residential	1.01	00.050.0	¢2.672.0			¢5.50
Energy Star® HVAC	1.81	\$6,656.8	\$3,673.0			\$5.50
EnergyWise	0.56	\$5,647.0	\$10,063.2			\$18.33
EnergyWise MultiFamily	1.00	\$1,490.5	\$1,491.6			\$10.03
Home Energy Reports	2.00	\$901.9	\$450.9			\$4.82
Residential New Construction	1.24	\$836.6	\$674.8			\$7.91
Comprehensive Marketing - Residential			\$64.8			
Community Based Initiatives - Residential			\$75.8			
Residential Pilots			\$0.0			
Residential Workforce Development			\$118.3			
Non-Income Eligible Residential Subtotal	0.90	\$15,532.7	\$16,612.4		\$ 595.0	\$10.76
Income Eligible Residential						
Single Family - Income Eligible Services	0.35	\$2,341.6	\$6,738.8			\$29.75
Income Eligible Multifamily	1.07	\$3,468.2	\$3,254.1			\$9.24
Income Eligible Workforce Development	1107	φε,.σσ.2	\$49.6			Ψ>12.
Income Eligible Residential Subtotal	0.56	\$5,809.8	\$10,042.5		\$ 425.0	\$17.36
Torre Comment 1 9 Industrial						
Large Commercial & Industrial	1.01	Φ2 C00 4	¢2.750.2			Ø 6 21
Large Commercial New Construction	1.31	\$3,609.4	\$2,759.2			\$6.31
Large Commercial Retrofit	2.51	\$12,959.9	\$5,169.1			\$3.55
Small Business Direct Install	1.25	\$416.9	\$332.7			\$6.81
Commercial & Industrial Multifamily	1.38	\$1,312.4	\$953.2			\$6.72
Commercial Demonstration and R&D			\$215.8			
Community Based Initiatives - C&I			\$24.8			
Finance Costs			\$0.0			
Commercial Workforce Development			\$164.5			
Commercial & Industrial Subtotal	1.78	\$18,298.6	\$9,619.3		\$ 680.0	\$4.62
Regulatory						
EERMC			\$321.2			
OER			\$321.2			
Regulatory Subtotal			\$642.5			
Grand Total	1.03	\$39,641.1	\$36,916.6		\$ 1,700.0	\$8.78

Notes:

This alternative version of Table G-5A omits the following benefit categories: electric energy and electric energy DRIPE, water, and non-resource (non-energy impacts). It also omits customer contribution from the costs.

PUC 1-26

Request:

Referring to Tables E-5 and E-5A, please explain why the benefit-cost ratio is so much higher in both Tables for Residential Connected Solutions and Commercial Connected Solutions than any of the other programs.

Response:

The residential and commercial ConnectedSolutions programs are active demand management programs where customers are paid an incentive to curtail electric loads at peak times. This is in comparison to other programs that are primarily intended to reduce overall customer energy consumption.

The benefit-cost ratios for the Residential ConnectedSolutions and Commercial ConnectedSolutions programs are higher relative to other programs for several reasons.

First, the ConnectedSolutions programs are relatively unique in that they do not directly incent the installation of new equipment to save energy or demand. The programs provide incentives to customers to reduce their load during specific times. The benefits resulting from these actions are primarily capacity benefits, that have relatively high value.¹

Second, these programs have low costs relative to the benefits they create. This is due in part to the fact that they typically do not involve a requirement for incremental equipment incented through the program. Most efficiency programs provide incentives for installation of energy efficient equipment. This is not the case in the ConnectedSolutions offers, which rely on customer utilization of existing equipment, or (as in the case of WiFi enabled thermostats) equipment that was incented under a different energy efficiency program on the basis of the energy savings attributable to that equipment.

The costs of the ConnectedSolutions offerings are therefore primarily composed of incentives to customers, as well as costs related to the technology platform on which the resource is managed, as well as program administration and marketing costs.

¹ Refer to Table E-6A for the benefits generated by the Residential ConnectedSolutions and Commercial ConnectedSolutions programs.

PUC 1-26, page 2

In addition, the programs have no associated customer contribution cost, which is a category of cost included in the denominator of the benefit-cost ratio. If the customer purchased a device through the energy efficiency programs, those costs are already accounted for in the energy efficiency program.

PUC 1-27

Request:

Please re-calculate the total benefit-cost ratio provided in Tables E-5, E-5A, G-5, and G-5A without attributing any benefits achieved through the Home Energy Reports program.

Response:

The Company has interpreted this request as omitting both the benefits and costs associated with the Home Energy Reports program from Tables E-5, E-5A, G-5, and G-5A.

Please see Attachments PUC 1-27-1 through PUC 1-27-4 for versions of these tables showing the Benefit-Cost results without the Home Energy Reports.

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5076 Attachment PUC 1-27-1 Page 1 of 1

PUC 1-27-1 Table E-5 (Without Home Energy Reports) National Grid Calculation of 2021 Program Year Cost-Effectiveness All Dollar Values in (\$000)

	RI Test		Program			
	Benefit/	Total	Implementation	Customer	Performance	¢/Lifetime
	Cost ¹	Benefit	Expenses ²	Contribution	Incentive	kWh
Non-Income Eligible Residential						
Residential New Construction	2.69	\$6,445.3	\$1,544.3	\$855.7		13.3
ENERGY STAR® HVAC	2.77	\$13,306.5	\$3,487.8	\$1,311.6		9.4
EnergyWise	1.89	\$33,615.8	\$17,033.3	\$790.4		120.5
EnergyWise Multifamily	2.44	\$8,756.5	\$3,056.8	\$532.0		17.6
Home Energy Reports						
ENERGY STAR® Lighting	3.29	\$14,018.2	\$5,274.8	-\$1,012.9		15.9
Residential Consumer Products	2.84	\$11,372.7	\$2,681.2	\$1,321.2		10.5
Residential ConnectedSolutions	6.13	\$12,018.6	\$1,959.7	\$0.0		N/A
Energy Efficiency Education Programs			\$40.0			
Residential Pilots			\$0.0			
Community Based Initiatives - Residential			\$226.2			
Comprehensive Marketing - Residential			\$332.7			
Residential Workforce Development			\$284.7			
Non-Income Eligible Residential SUBTOTAL	2.39	\$99,533.7	\$35,921.6	\$3,798.1	\$1,925.0	20.2
Income Eligible Residential						
Single Family - Income Eligible Services	2.65	\$36,501.8	\$13,759.3	\$0.0		34.9
Income Eligible Multifamily	1.76	\$8,502.4	\$4,830.8	\$0.0		15.2
Income Eligible Workforce Development	1.70	\$6,302.4	\$114.2	\$0.0		13.2
	2.25	\$45.004.2		Φ0.0	#1 100 0	26.2
Income Eligible Residential SUBTOTAL	2.27	\$45,004.2	\$18,704.3	\$0.0	\$1,100.0	26.3
Commercial & Industrial						
Large Commercial New Construction	6.24	\$58,649.1	\$8,500.2	\$893.1		5.0
Large Commercial Retrofit	7.52	\$329,117.0	\$31,930.2	\$11,821.8		5.9
Small Business Direct Install	3.35	\$36,190.8	\$8,883.6	\$1,922.8		10.3
Commercial ConnectedSolutions	9.85	\$29,465.0	\$2,990.1	\$0.0		N/A
Commercial Pilots			\$0.0			
Community Based Initiatives - C&I			\$74.5			
Finance Costs			\$5,000.0			
Commercial Workforce Development			\$468.7			
C&I SUBTOTAL	6.05	\$453,421.9	\$57,847.3	\$14,637.7	\$2,475.0	7.0
Regulatory						
OER			\$845.6			
EERMC			\$845.6			
Regulatory SUBTOTAL			\$1,691.1			
TOTAL	4.33	\$597,959.9	\$114,164.3	\$18,435.8	\$5,500.0	10.1

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5076 Attachment PUC 1-27-2 Page 1 of 1

PUC 1-27-2 Table E-5A (Without Home Energy Reports) National Grid Calculation of 2021 Program Year Cost-Effectiveness with TRC Test All Dollar Values in (\$000)

	TRC Benefit/ Cost ¹	Total Benefit	Program Implementation Expenses ²	Customer Contribution	Performance Incentive	¢/Lifetime kWh
Non-Income Eligible Residential						
Residential New Construction	1.55	\$3,713.4	\$1,544.3	\$855.7		13.3
ENERGY STAR® HVAC	1.37	\$6,557.3	\$3,487.8	\$1,311.6		9.4
EnergyWise	0.82	\$14,677.8	\$17,033.3	\$790.4		120.5
EnergyWise Multifamily	1.19	\$4,265.7	\$3,056.8	\$532.0		17.6
Home Energy Reports						
ENERGY STAR® Lighting	1.17	\$4,988.9	\$5,274.8	-\$1,012.9		15.9
Residential Consumer Products	1.52	\$6,092.4	\$2,681.2	\$1,321.2		10.5
Residential ConnectedSolutions	5.30	\$10,390.0	\$1,959.7			
Energy Efficiency Education Programs		·	\$40.0			
Residential Pilots			\$0.0			
Community Based Initiatives - Residential			\$226.2			
Comprehensive Marketing - Residential			\$332.7			
Residential Workforce Development			\$284.7			
Non-Income Eligible Residential SUBTOTAL	1.22	\$50,685.6	\$35,921.6	\$3,798.1	\$1,925.0	21.6
Income Eligible Residential				\$0.0		
Single Family - Income Eligible Services	1.61	\$22,102.6	\$13,759.3	\$0.0		34.9
Income Eligible Multifamily	0.52	\$2,494.0	\$4,830.8	\$0.0		15.2
Income Eligible Workforce Development			\$114.2			
Income Eligible Residential SUBTOTAL	1.24	\$24,596.7	\$18,704.3	\$0.0	\$1,100.0	26.3
Commercial & Industrial						
Large Commercial New Construction	2.87	\$26,984.4	\$8,500.2	\$893.1		5.0
Large Commercial Retrofit	2.93	\$127,987.1	\$31,930.2	\$11,821.8		5.9
Small Business Direct Install	1.47	\$15,926.4	\$8,883.6	\$1,922.8		10.3
Commercial ConnectedSolutions	7.66	\$22,916.6	\$2,990.1			
Commercial Pilots			\$0.0			
Community Based Initiatives - C&I			\$74.5			
Finance Costs			\$5,000.0			
Commercial Workforce Development			\$468.7			
C&I SUBTOTAL	2.59	\$193,814.4	\$57,847.3	\$14,637.7	\$2,475.0	7.0
Regulatory						
OER			\$845.6			
EERMC			\$845.6			·
Regulatory SUBTOTAL			\$1,691.1			
TOTAL	1.95	\$269,096.6	\$114,164.3	\$18,435.8	\$5,500.0	10.4

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5076 Attachment PUC 1-27-3 Page 1 of 1

PUC 1-27-3 Table G-5 (Without Home Energy Reports) National Grid Calculation of 2021 Program Year Cost-Effectiveness All Dollar Values in (\$000)

	Rhode Island Benefit/ Cost	Total Benefit	Program Implementation Expenses	Customer Contribution	Performance Incentive	\$/Lifetime MMBtu
Non-Income Eligible Residential	Cost	Delicit	Expenses	Contribution	Incentive	MIMIDLU
Energy Star® HVAC	1.66	\$13,615.7	\$3,673.0	\$4,539.3		\$12.30
EnergyWise	2.01	\$21,873.6	\$10.063.2	\$816.5		\$19.82
EnergyWise MultiFamily	4.70	\$8,630.2	\$1,491.6	\$344.0		\$12.35
Home Energy Reports		40,050.2	ψ1, 1, 11.0	Ψ21110		ψ12.00
Residential New Construction	1.02	\$1,378.3	\$674.8	\$670.9		\$15.78
Comprehensive Marketing - Residential		+ - ,	\$64.8	40,000		7.20.10
Community Based Initiatives - Residential			\$75.8			
Residential Pilots			\$0.0			
Residential Workforce Development			\$118.3		\$ 595.0	
Non-Income Eligible Residential Subtotal	1.97	\$45,497.7	\$16,161.6	\$6,370.8	\$ 595.0	\$14.59
Income Eligible Residential						
Single Family - Income Eligible Services	2.94	\$19,830.4	\$6,738.8	\$0.0		\$29.75
Income Eligible Multifamily	4.21	\$13,690.7	\$3,254.1	\$0.0		\$9.24
Income Eligible Workforce Development		, -,	\$49.6		\$ 425.0	
Income Eligible Residential Subtotal	3.20	\$33,521.1	\$10,042.5	\$0.0	\$ 425.0	\$17.36
Large Commercial & Industrial						
Large Commercial New Construction	4.86	\$12,599.7	\$2,759.2	-\$166.4		\$5.93
Large Commercial Retrofit	5.27	\$45,068.7	\$5,169.1	\$3,387.0		\$5.88
Small Business Direct Install	3.83	\$1,539.9	\$332.7	\$69.4		\$8.23
Commercial & Industrial Multifamily	4.75	\$4,922.8	\$953.2	\$84.0		\$7.31
Commercial Pilots			\$215.8			·
Community Based Initiatives - C&I			\$24.8			
Finance Costs			\$0.0			
Commercial Workforce Development			\$164.5		\$ 680.0	
Commercial & Industrial Subtotal	4.69	\$64,131.1	\$9,619.3	\$3,374.0	\$ 680.0	\$6.24
Regulatory						
EERMC			\$321.2			
OER			\$321.2			
Regulatory Subtotal			\$642.5			•
Grand Total	2.99	\$143,150.0	\$36,465.8	\$9,744.8	\$ 1,700.0	\$10.99

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5076 Attachment PUC 1-27-4 Page 1 of 1

PUC 1-27-4 Table G-5A (Without Home Energy Reports) National Grid Calculation of 2021 Program Year Cost-Effectiveness with TRC Test All Dollar Values in (\$000)

Г	TRC	Total Benefit	Program Implementation Expenses	Customer Contribution	Performance Incentive	\$/Lifetime MMBtu
	Benefit/ Cost					
Non-Income Eligible Residential						
Energy Star® HVAC	0.91	\$7,481.1	\$3,673.0	\$4,539.3		\$12.30
EnergyWise	0.84	\$9,134.8	\$10,063.2	\$816.5		\$19.82
EnergyWise MultiFamily	3.00	\$5,509.4	\$1,491.6	\$344.0		\$12.35
Home Energy Reports						
Residential New Construction	0.62	\$840.0	\$674.8	\$670.9		\$15.78
Comprehensive Marketing - Residential			\$64.8			
Community Based Initiatives - Residential			\$75.8			
Residential Pilots			\$0.0			
Residential Workforce Development			\$118.3			
Non-Income Eligible Residential Subtotal	0.99	\$22,965.3	\$16,161.6	\$6,370.8	\$ 595.0	\$14.59
Income Eligible Residential						
Single Family - Income Eligible Services	1.79	\$12,080.6	\$6,738.8	\$0.0		\$29.75
Income Eligible Multifamily	2.16	\$7,039.9	\$3,254.1	\$0.0		\$9.24
Income Eligible Workforce Development	2.10	ψ1,037.7	\$49.6	ψ0.0		Ψ2.21
Income Eligible Residential Subtotal	1.83	\$19,120.6	\$10,042.5	\$0.0	\$ 425.0	\$17.36
Large Commercial & Industrial						
Large Commercial New Construction	2.56	\$6,643.7	\$2,759.2	-\$166.4		\$5.93
Large Commercial Retrofit	2.93	\$25,105.0	\$5,169.1	\$3,387.0		\$5.88
Small Business Direct Install	1.81	\$727.3	\$332.7	\$69.4		\$8.23
Commercial & Industrial Multifamily	2.37	\$2,454.4	\$953.2	\$84.0		\$7.31
Commercial Demonstration and R&D			\$215.8			
Community Based Initiatives - C&I			\$24.8			
Finance Costs			\$0.0			
Commercial Workforce Development			\$164.5			
Commercial & Industrial Subtotal	2.55	\$34,930.5	\$9,619.3	\$3,374.0	\$ 680.0	\$6.24
Regulatory						
EERMC			\$321.2			
OER			\$321.2			
Regulatory Subtotal			\$642.5			
Grand Total	1.61	\$77,016.4	\$36,465.8	\$9,744.8	\$ 1,700.0	\$10.99

PUC 1-28

Request:

Table E-5 indicates that the electric EnergyWise program has a cost that equates to a cost of achieving kWh savings of approximately \$1.20 per kWh. Please explain why the Company supports the EnergyWise program at the proposed budget level of \$17 million, given that the program the cost per kWh is very far above the market price of electricity, full retail rates, and the cost of additional supply.

Response:

EnergyWise provides invaluable insights regarding a customer's energy systems, housing shell efficiency, and energy savings opportunities that customers may not recognize without professional assistance and is a cost-effective program under the RI Test. The in-depth inventory of opportunities identified during home energy assessments can then be leveraged by marketing to support other residential program targets. In 2021 the cost per kWh for EnergyWise increased due to decreases in electric energy savings resulting from lighting transformation and updated evaluation results that reduced overall weatherization savings.

While EnergyWise is costly from a purely electric savings perspective, the program serves all market rate, single family electric customers and brings real cost savings to customer energy bills through weatherization and other measures. The full value of these, as well as other benefits resulting from the program, are more fully enumerated and quantified in Table E-5. These savings, although not claimed, could further benefit the customer if future electric loads are implemented such as the addition of central air conditioning or electric heat.

In 2021 the program will be looking for ways to increase electric savings while reducing program costs. Opportunities such as the early retirement of clothes washers may be added to the program to increase electric savings.

On the cost side, the program launched virtual home energy assessments in 2020 during the COVID timeframe to provide a customer with a remote home energy assessment by an energy specialist. With the lead vendor implementation vendor going out to bid in 2021, there is an opportunity to capitalize on reducing assessment costs.

PUC 1-29

Request:

Regarding the electric EnergyWise program,

- (a) How many customer accounts does the Company expect will be served by the electric EnergyWise program in 2021?
- (b) How many of the participants provided in part a heat their homes with electric energy?
- (c) How many customer accounts have been served to date in 2020?
- (d) How many customer accounts does the Company expect will be served by the end of 2020?
- (e) How much does the Company expect will have been on the electric EnergyWise program by the end of 2020?

Response:

- (a) The 2021 EnergyWise program has planned to serve 11,750 electric customers with home energy assessments.
- (b) EnergyWise does not plan for assessment customers based on fuel types. In 2019, approximately 5% of the customers receiving assessments had electric heat. The program is planning to serve 220 electric heating customers with weatherization services in 2021.
- (c) Through October 2020, 6,203 customers have received Home Energy Assessments in EnergyWise.
- (d) The program forecasts serving 8,800 assessment customers through the end of 2020.
- (e) With the 5% estimate of electric heat participants, the program anticipates serving 440 electrically heated customers through year end.

PUC 1-30

Request:

For the electric EnergyWise program, please provide a table showing the following for the years 2015 through 2019:

- (a) Total implementation costs budgeted;
- (b) Total implementation costs actually incurred;
- (c) Cost per lifetime kWh projected to have been saved from the program;
- (d) Total number of customer accounts served;
- (e) Total number of customers served with electric heat;
- (f) Resulting benefit-cost ratio; and
- (g) Resulting benefit-cost ratio excluding economic development benefits.

Response:

Please see Attachment PUC 1-30 for requested information.

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The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5076 Attachment PUC 1-30

Electric EnergyWise Data			Year		
	2015	2016	2017	2018	2019
a. Total implementation costs budgeted;	\$ 8,883,677	\$ 10,007,692	\$ 9,629,973	\$ 14,916,251	\$ 15,777,501
b. Total implementation costs actually incurred;	\$ 9,782,191	\$ 8,906,422	\$ 9,371,174	\$ 13,406,705	\$ 16,062,764
c. Cost per lifetime kWh projected to have been saved from the program;	9.2	10.4	16.6	46.2	46.9
d. Total number of customer accounts served;	11,665	9,567	10,159	11,838	13,839
e. Total number of customers served with electric heat;	515	401	457	585	626
f. Resulting benefit-cost ratio; and	3.08	1.99	1.04	2.43	2.53
g. Resulting benefit-cost ratio excluding economic development benefits.	3.08	1.99	1.04	1.81	1.91

PUC 1-31

Request:

Please re-create Table 6 (Summary of 2009-2019 Electric Energy Efficiency Year End Reports), excluding all participants who may have been counted solely from the receipt of a Home Energy Report.

Response:

See Attachment PUC 1-31 for the alternative Table 6 (Summary of 2009-2019 Electric Energy Efficiency Year End Reports). Please note that the Company removed Home Energy Reports program participants in the "Participants" column since the start of the Home Energy Reports program (2013-2019). The participation totals in this table are additive and, therefore, track participation at the program level.

While the participant numbers are adjusted to remove Home Energy Reports, the other columns have not been adjusted.

Attachment PUC 1-31

Table 6. Summary of 2009-2019 Electric Energy Efficiency Year End Reports

			- 10		-,						
	Annual	Lifetime	Total		Total					\$ per	
	MWh	MWh	Benefits		Spending*	TRC BC	RI Test BC	EE	Program	lifetime	
Year	Savings	Savings	(\$000)		(\$000)	Ratio**	Ratio (1)	Ch	arge/kWh	kWh***	Participants
2009	81,543	899,331	\$ 123,04	5 :	\$ 29,536	3.02		\$	0.00320	\$ 0.027	106,525
2010	81,275	929,242	\$ 128,86	4 :	\$ 29,712	3.73		\$	0.00320	\$ 0.027	153,611
2011	96,009	1,076,778	\$ 151,54	2 :	\$ 39,308	3.35		\$	0.00526	\$ 0.031	254,747
2012	119,666	1,288,325	\$ 140,10	4 :	\$ 50,719	2.24		\$	0.00589	\$ 0.036	201,351
2013	159,035	1,612,371	\$ 192,41	8 :	72,875	2.24		\$	0.00862	\$ 0.039	286,256
2014	268,468	3,278,088	\$ 314,67	3 :	\$ 80,321	2.69		\$	0.00911	\$ 0.041	285,771
2015	222,822	2,287,785	\$ 312,00	0 :	\$ 82,897	2.38		\$	0.00942	\$ 0.036	354,560
2016	214,329	2,034,220	\$ 234,23	4 !	5 74,274	2.16		\$	0.01077	\$ 0.034	488,027
2017	232,023	2,327,916	\$ 249,98	6 !	90,012	1.91		\$	0.01124	\$ 0.039	478,715
2018	206,209	1,848,845	\$ 369,83	5 !	\$ 88,123	1.88	2.99	\$	0.00972	\$ 0.048	479,877
2019	190,159	1,624,417	\$ 489,29	9 :	\$ 104,620	2.49	3.43	\$	0.01121	\$ 0.064	369,535
	·	•	·		·	·	·		·	·	

^{*}Total Spending includes implementation, evaluation, commitments, EERMC, and OER. Does not include customer contribution or shareholder incentive.

^{**}TRC Benefit/Cost Ratio = Benefits/(Implementation Expenses + Customer Contribution + Evaluation Cost + Shareholder Incentives).

^{***}Implementation costs/Lifetime savings

^{****} December 2011 PUC voted to increase gas EE Program charge to \$0.411/Dth.

⁽¹⁾ RI Test Benefit/Cost Ratio = (Energy + Capacity + Resource Benefits + Economic Benefits + Carbon Benefits + NOx Benefits) / (Program Implementation + Customer Contribution + Shareholder Incentive)

⁽²⁾ B/C Ratio changed from TRC to RI Test from 2018 onwards

PUC 1-32

Request:

Please re-create Table 1 of the three-year plan (Electric Portfolio Summary, 2021 – 2023), excluding all participants who may have been counted solely from the receipt of a Home Energy Report.

Response:

Please see Attachment PUC 1-32 for the alternative table for Table 1 of the three-year plan (Electric Portfolio Summary, 2021 - 2023). The table removes the Home Energy Report participants from the "Participation" count.

Participant counts are derived at the program level and are added together to create total participation in each plan year. In this table the Company does not account for cross-program participation of a single customer, such as any participants that may participate in Home Energy Reports and an additional program.

While the participant numbers are adjusted to remove Home Energy Reports, the other columns have not been adjusted.

Attachment PUC 1-32

Electric Programs	2021	20	22	20	23
Savings and Benefits		Base Case	High Scenario	Base Case	High Scenario
Annual Electric Savings (MWh)	139,478	143,872	149,013	158,726	172,198
Lifetime Electric Savings (MWh)	1,306,562	1,571,295	1,634,312	1,800,526	1,964,585
Savings as a Percent of Sales	1.92%	1.98%	2.05%	2.19%	2.37%
Summer Passive Peak Demand Savings (kW)	22,723	21,866	22,774	22,776	25,104
Winter Passive Peak Demand Savings (kW)	27,695	32,657	33,690	32,045	34,695
Active Peak Demand Savings (kW)	39,339	46,452	59,682	53,656	76,181
Total Benefits (RI Test)	\$606,490,655	\$653,356,839	\$696,592,377	\$726,732,762	\$830,726,438
Costs					
Total Funding Required	\$122,306,026	\$135,867,936	\$143,189,075	\$148,404,519	\$166,848,275
Cost per lifetime kWh	\$0.104	\$0.100	\$0.101	\$0.095	\$0.098
EE Program Charge per kWh	\$0.01323	\$0.01813	\$0.01922	\$0.02013	\$0.02281
Benefit Cost Ratio (RI Test)	4.31	4.02	4.08	4.13	4.20
Participation	138,866	71,368	74,928	87,999	98,706

PUC 1-33

Request:

Please re-create Table 7 of the three-year plan (Summary of 2009-2019 Natural Gas Energy Efficiency Year End Reports), excluding all participants who may have been counted solely from the receipt of a Home Energy Report.

Response:

See Attachment 1-33 for the alternative Table 7 of the three-year plan (Summary of 2009-2019 Natural Gas Energy Efficiency Year End Reports). Note that the Company removed Home Energy Reports program participants in the "Participants" column since the start of the Home Energy Reports program (2013-2019). The participation totals in this table are additive and therefore track participation at the program level.

While the participant numbers are adjusted to remove Home Energy Reports, the other columns have not been adjusted.

Attachment PUC 1-33

Table 7. Summary of 2009-2019 Natural Gas Energy Efficiency Year End Reports

		.05 =015		- 01		T		ī		
	Annual	Lifetime	Total		Total		RI Test		\$ per	
	MMBtu	MMBtu	Benefits	,	Spending*	TRC BC	BC Ratio		lifetime	
Year	Savings	Savings	(\$000)		(\$000)	Ratio**	(1)	EE Program Charge/Dth	MMBtu***	Participants
2009	195,200	2,553,828	\$ 26,07	'1 \$	\$ 6,552	2.83		\$0.150	\$2.44	8,339
2010	140,097	2,155,112	\$ 26,30	9 \$	\$ 5,496	2.31		\$0.150	\$2.33	5,670
2011	119,613	1,623,922	\$ 18,19	96 \$	\$ 4,868	2.21		\$0.150 ****\$0.411	\$2.73	3,080
2012	229,811	3,300,583	\$ 36,23	37 \$	\$ 13,310	1.68		\$0.384	\$3.72	11,681
2013	311,585	4,377,672	\$ 44,74	17 \$	\$ 19,501	1.78		\$0.414	\$4.21	13,286
2014	409,029	5,958,381	\$ 50,41	.7 \$	\$ 20,034	2.41		\$0.600 (Resi) \$0.492 (C&I)	\$3.84	14,006
2015	419,778	5,249,170	\$ 54,76	52 \$	\$ 20,129	2.60		\$0.781 (Resi) \$0.637 (C&I)	\$3.47	15,643
2016	417,820	5,282,221	\$ 51,10	3 \$	\$ 23,135	1.94		\$0.748 (Resi) \$0.487 (C&I)	\$4.78	15,983
2017	468,211	4,615,034	\$ 70,97	'2 Ş	\$ 27,513	1.86	ı	\$0.888 (Resi) \$0.726 (C&I)	\$5.96	17,300
2018	497,119	5,513,499	\$ 113,11	L7 \$	\$ 27,231	2.62	3.11	\$0.869 (Resi) \$0.671 (C&I)	\$4.94	13,360
2019	451,466	4,527,147	\$ 115,73	36 5	\$ 30,142	2.17	2.66	\$0.715 (Resi) \$0.420 (C&I)	\$6.66	13,527

^{*}Total Spending includes implementation, evaluation, commitments, EERMC, and OER. Does not include customer contribution or shareholder incentive.

^{**}TRC Benefit/Cost Ratio = Benefits/(Implementation Expenses + Customer Contribution + Evaluation Cost + Shareholder Incentives).

^{***}Implementation costs/Lifetime savings

^{****} December 2011 PUC voted to increase gas EE Program charge to \$0.411/Dth.

⁽¹⁾ RI Test Benefit/Cost Ratio = (Energy + Capacity + Resource Benefits + Economic Benefits + Carbon Benefits + NOx Benefits) / (Program Implementation + Customer Contribution + Shareholder Incentive)

⁽²⁾ B/C Ratio changed from TRC to RI Test from 2018 onwards

PUC 1-34

Request:

Referring to the 2019 Year-End Report, "Schedule 1 – Program and Sector Cost Summary," please provide similar schedules (for electric and gas) for the projected costs of the 2021 program which estimates the costs for 2021 for each program in each cost category identified in the schedule. Please use the Company's best estimate for costs anticipated in each category, based on the budget requested.

Response:

See Attachment PUC 1-34-1 and PUC 1-34-2. Note that this response is providing the "Schedule 1 – Program and Sector Cost Summary" for both electric and gas "Schedule 1 – Program and Sector Cost Summary – Direct vs. Allocated".

Information contained within "Schedule 1 – Program and Sector Cost Summary – By Report Category" has been provided in the Annual Plan filing in Table E-2 on Bates 558 and Table G-2 on Bates 571.

Schedule 1 - Program and Sector Cost Summary DIRECT vs ALLOCATED		(e)	(b) OT	(c.) TOTALS	(p)	(e)	(£)	(8)	(£)	(1)	(i) DETAILS	(K)	8	(E)	(u)	(0)	(d)
		TOTAL SPLIT 1	П1	TOTAL SPLIT 2				DIRECT COSTS	STS					ALLOCATED COSTS	DCOSTS		
		DIRECT vs ALLOCATED		Cost of services and product rebates/incentives provided to customers vs. Other Costs	ebates/incentives . Other Costs		NO INCENTIVE	0	Cost of services and product rebates/incentives provided to customers	oroduct rebates/inc to customers	entives provided		Other Costs		Cost of service: pr	Cost of services and product rebates/incentives provided to customers	ss/incentives
			č	Cost of services and product		National Grid Direct		Direct "Not Labor.	National Grid		Direct "Not Labor. A	National Grid Allocated Labor &		Allocated "Not	National Grid Allocated Labor &		Allocated "Not
				rebates/incentives provided		Labor & Employee			Direct Labor &								Labor, Expense,
	Total Costs	DIRECT	ALLOCATED 6F0 434	to customers	Other Costs	Expense	Direct External	External" E	Employee Expense	Direct External	External	Expense /	Allocated External	External		Allocated External	Vendor"
	\$1,544,335	51,493,911	550,424	\$31,825	012,2174	531,889	\$650,197	06 9	05	\$331,825	05.0	530,991	\$13,433	R 8	06 9	05	90
	\$3,467,790	\$16,007,577	5100,421	\$2,364,473	\$2005,523	\$23,362	\$1.789.655	or 2	OF 55	\$2,384,473	or 2	\$214.338	524,974	R 5	or 2	0° 20	05
	53,056,836	\$2,963,865	\$92,971	\$2,482,000	\$574,836	\$23.806	\$458,059	\$0	05	\$2,482,000	0\$	\$55,672	\$37,299	8 8	\$0	0\$	\$0
	\$2,641,681	\$2,604,372	\$37,310	80	\$2,641,681	\$11,234	\$2,593,137	\$0	\$0	\$0	80	\$36,451	\$859	. 8	\$0	\$0	\$0
	\$5,274,753	\$4,982,465	\$292,289	\$4,057,238	\$1,217,516	\$25,853	\$899,374	\$0	\$0	\$4,057,238	\$	\$191,271	\$101,018	- 8	\$0	\$0	\$0
	\$2,681,236	\$2,572,543	\$108,693	\$1,486,075	\$1,195,161	\$28,380	\$1,058,088	\$0	\$0	\$1,486,075	\$0	\$45,343	\$63,350	8	\$0	\$0	\$0
	\$1,959,725	\$1,931,440	\$28,285	\$1,369,168	\$590,557	\$17,551	\$544,720	\$0	\$0	\$1,369,168	\$0	\$10,286	\$17,999	8	\$0	\$0	\$0
	\$40,000	\$40,000	S	\$0	\$40,000	\$0	\$40,000	\$0	\$	\$0	\$0	\$0	\$0	\$0	\$0	8	\$0
	\$0	8	S	\$0	\$0	\$0	\$0	\$0	\$	\$0	\$0	\$0	\$0	\$0	\$0	8	\$0
	\$284,722	\$284,722	S	\$0	\$284,722	\$0	\$284,722	\$0	\$	\$0	\$0	\$0	\$0	\$0	\$0	8	\$0
	\$226,161	\$226,161	S	\$84,375	\$141,786	\$32,099	\$109,688	\$0	\$0	\$84,375	\$0	\$0	\$0	\$0	\$0	8	\$0
	\$332,706	\$325,000	\$7,706	\$0	\$332,706	\$0	\$325,000	\$0	8	\$0	\$0	\$7,706	\$0	\$0	\$0	8	\$0
Subtotal Non-Income Eligible Residential	\$38,563,295	\$37,414,312	\$1,148,983	\$27,667,378	\$10,895,917	\$234,954	\$9,511,981	\$0	\$0	\$27,667,378	\$	\$643,504	\$505,479	8	\$0	\$0	\$0
	\$13,759,324	\$13,403,709	\$355,615	\$11,022,955	\$2,736,369	\$25,827	\$2,354,927	\$0	\$0	\$11,022,955	\$0	\$192,661	\$162,954	8	\$0	\$0	\$0
	\$4,830,800	\$4,712,989	\$117,811	\$4,243,200	\$587,600	\$22,723	\$447,067	\$0	\$0	\$4,243,200	\$0	\$58,621	\$59,190	-8	\$0	\$0	\$0
	\$114,190	\$114,190	S	\$0	\$114,190	\$0	\$114,190	\$0	8	\$0	\$0	\$0	\$0	\$0	\$0	S	\$0
Subtotal Income Eligible Residential	\$18,704,314	\$18,230,888	\$473,426	\$15,266,155	\$3,438,159	\$48,549	\$2,916,184	\$0	\$0	\$15,266,155	\$0	\$251,282	\$222,144	8	\$0	\$0	\$0
	\$8 500 175	\$7 997 188	\$502 987	\$5,877,168	\$2,628,007	\$184 D94	\$1 940 926	Ş	\$	\$5 872 168	Ş	¢361 156	\$141.831	ş	Ş	Û\$	0\$
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	2930,242	550,210,357	51,/19,8/5	524,824,992	\$7,105,250	5827,489	\$4,557,906	06 9	05	524,824,992	05.0	51,223,498	5490,370	R 8	06 9	05	90
	0000000	50,452,510	5431,249	000,000,00	4049,204	690,675	000,0144	0, 0	Of 5	505,954,503	000	22/0/25/	21/3,022	8.8	90	00, 00	90
	22,990,100	45,071,034	2113,012	000'099'7¢	9210,100	544,103	100,0914	000	S. 5	000,000,24	OF 50	600,000¢	525,255	8 5	OF 5	S 5	05
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	2400,000	2400,000	R 8	0¢	2400,000	000	2400,000	0, 0	R 5	30	000	O¢ 5	90	000	90	R 8	90
	5/4,531	5/4,531	2 5	\$28,125	540°400	59,843	530,383	0.0	20	\$28,125	0,0	20	05.0	0,0	0.5	R 4	90
College for the Common Country of the College of th	55,000,000	55,000,000	50,000,00	55,000,000	042 203 419	50	050 151	05	R S	545 330 500	0. 0	50 50	000	05. 80	06	R 5	05
III na na na	000,140,100	0/1/+60/666	32,133,122	046,539,390	OL 1, 100, LLC	659,247,15	066,176,75	06 5	06.	340,339,390	ο, ;	016,136,15	766,6000	R ÷	30	06	30
IO I AL AII Sectors	606,411,6114	0/6/660/0116	156,615,551	203,273,125	/0/1790ez	21,420,142	\$20,000,114	<u>R</u>	P.	203,213,122	n¢	956,220,25	4/T/262/T¢	3	D¢.	D¢	P.
EERMC	\$845,559	\$845,559	8	\$	\$845,559	\$	\$845,559	O\$	8	\$	\$	\$	\$0	\$0	\$	8	0\$
OER	\$845,559	\$845,559	S	S	\$845,559	\$	\$845,559	\$	8	\$	ŝ	\$	S	ŝ	\$	8	\$0
OTHER COSTS NOT LISTED ABOVE (Electric)	\$0	\$	8	\$0	\$0	\$0	\$0	\$0	8	\$0	\$0	\$0	\$0	\$0	\$0	8	\$0
GRAND TOTAL	\$116,806,026	\$110,699,378	\$4,415,531	\$89,273,122	\$25,841,787	\$1,426,142	\$20,000,114	\$0	\$0	\$89,273,122	\$0		\$1,593,174	8	\$0	\$0	\$0

Schedule 1 - Program and Sector Cost Summary		(a)	9	(c)	(P)	(e)	(£)	(8)	ε	Ξ	9	æ	8	Ē	Ξ	(0)	(d)
DIRECT vs ALLOCATED)T	TOTALS							DETAIL	rs					
		TOTAL SPLIT 1	Т1	TOTAL SPLIT 2				DIRECT COSTS	STS					ALLOCATED COSTS	COSTS		
				Cost of services and product rebates/incentives	bates/incentives				Cost of services and product rebates/incentives provided	product rebates/ii	ncentives providec				Cost of services	Cost of services and product rebates/incentives	/incentives
		DIRECT vs ALLOCATED	CATED	provided to customers vs. Other Costs	Other Costs		NO INCENTIVE			to customers			Other Costs		pro	provided to customers	
												National Grid			National Grid		
			<u> </u>	Cost of services and product		National Grid Direct	_	Direct "Not Labor,	National Grid		Direct "Not Labor,	Direct "Not Labor, Allocated Labor &		Allocated "Not	Allocated Labor &	`	Allocated "Not
			_	rebates/incentives provided		Labor & Employee		Expense,	Direct Labor &		Expense,	Employee		Labor, Expense,	Employee	_	abor, Expense,
	Total Costs	DIRECT	ALLOCATED	to customers	Other Costs	Expense	Direct External	External" E	Employee Expense	Direct External	External"	Expense	Allocated External	External"	Expense A	Allocated External	Vendor"
1 Residential New Construction	\$674,827	\$648,713	\$26,114	\$491,175	\$183,652	\$22,332	\$135,205	0\$	\$0	\$491,175	0\$	\$17,317	\$8,797	8	\$0	8	\$0
2 ENERGY STAR* HVAC	\$3,673,047	\$3,548,848	\$124,199	\$3,012,973	\$660,074	\$60,955	\$474,921	\$0	\$0	\$3,012,973	\$	\$54,799	\$69,400	8	\$0	\$0	\$0
3 EnergyWise	\$10,063,228	\$9,780,893	\$282,336	\$8,359,746	\$1,703,482	\$26,017	\$1,395,130	\$0	\$0	\$8,359,746	\$	\$129,444	\$152,891	8	\$0	\$0	\$0
4 EnergyWise Multi Family	\$1,491,590	\$1,438,082	\$53,508	\$1,216,000	\$275,590	\$19,580	\$202,502	\$	\$0	\$1,216,000	\$0	\$29,288	\$24,220	8	\$0	\$0	\$0
5 Home Energy Reports	\$450,864	\$440,737	\$10,127	\$0	\$450,864	\$2,703	\$438,034	\$0	\$0	\$0		\$10,127	\$0	8.	\$0	8	\$0
6 Residential Workforce Development	\$118,267	\$118,267	\$	0\$	\$118,267	\$0	\$118,267	\$0	\$	\$0	\$0	\$0	\$0	\$0	\$0	\$	\$0
7 Community Based Initiatives - Residential	\$75,839	\$75,839	\$	\$28,125	\$47,714	\$11,151	\$36,563	\$0	\$	\$28,125	\$0	\$0	\$0	\$0	\$0	\$	\$0
8 Comprehensive Marketing - Residential	\$64,758	\$60,000	\$4,758	0\$	\$64,758	\$0	\$60,000	\$0	\$	\$0	\$0	\$4,758	\$0	\$0	\$0	\$	\$0
9 Subtotal Non-Income Eligible Residential	\$16,612,419	\$16,111,377	\$501,042	\$13,108,019	\$3,504,400	\$142,738	\$2,860,621	\$	\$0	\$13,108,019	\$	\$245,733	\$255,309	8	\$0	\$0	\$0
10 Single Family - Income Flighb Services	\$6 738 774	\$6 567 486	\$171 288	\$5.253.000	\$1 485 774	\$24.385	\$1,290,101	Ş	Ş	\$5.253.000	0\$	\$77 306	\$43 987	Ş	05	\$	Ş
11 Income Clinible Multifamily	C2 2E4 067	C2 166 ADA	C07 C63	000 23 62	CE07.067	\$15.00	CA0A 200	05	9	000(200(25	05	CAD AGA	547 100	3	00	5	0.5
12 Income Clinible Moniform Development	200,000,000	500,000	00,00	000	500,1000	000	540.533	0,5	8 5	000,100,44	2	101,011	000	3 5	25	8, 8	2,5
17 IIICOIIIE EIIBIDIE WOLVIOLE DEVELOPIIIEIIC	549,023	570,045	R	06	570,023	06	570,640	00.1	R.	00	0.	Oc.	Oc.	0, 1	ς ;	Ŗ.	00.
13 Subtotal Income Eligible Residential	\$10,042,464	\$9,783,513	\$258,951	\$7,920,000	\$2,122,464	\$39,390	\$1,824,123	0\$	\$0	\$7,920,000	\$0	\$117,770	\$141,180	8	\$0	\$0	0\$
14 Large Commercial New Construction	\$2,759,162	\$2,533,818	\$225,344	\$1,264,144	\$1,495,018	\$203,982	\$1,065,692	\$0	\$0	\$1,264,144	0\$	\$138,324	\$87,021	8	\$0	\$0	\$0
15 Large Commercial Retrofit	\$5,169,116	\$4,800,414	\$368,702	\$2,988,797	\$2,180,319	\$466,285	\$1,345,332	\$0	\$0	\$2,988,797	\$0	\$245,134	\$123,568	8	\$0	\$0	\$0
16 Small Business Direct Install	\$332,651	\$317,357	\$15,294	\$251,774	\$80,876	\$23,418	\$42,164	\$0	8	\$251,774	\$0	\$7,110	\$8,183	8	\$0	\$	\$0
17 Commercial & Industrial Multifamily	\$953,219	\$904,484	\$48,734	\$756,000	\$197,219	\$12,394	\$136,090	\$0	8	\$756,000	\$0	\$24,996	\$23,738	8	\$0	\$	\$0
18 Commercial Pilots	\$215,780	\$215,780	8	\$178,280	\$37,500	\$0	\$37,500	\$0	8	\$178,280	\$0	\$0	\$0	\$0	\$0	\$	\$0
19 Commercial Workforce Development	\$164,510	\$164,510	S.	0\$	\$164,510	\$0	\$164,510	\$0	95	\$0	\$0	\$0	\$0	\$0	\$0	S.	\$0
20 Community Based Initiatives - C&I	\$24,844	\$24,844	\$	\$9,375	\$15,469	\$3,281	\$12,188	\$0	8	\$9,375	\$0	\$0	\$0	\$0	\$0	S.	\$0
21 Subtotal Commercial & Industrial	\$9,619,282	\$8,961,207	\$658,075	\$5,448,370	\$4,170,912	\$709,360	\$2,803,477	\$0	\$0	\$5,448,370	\$0	\$415,564	\$242,510	8	\$0	8	\$0
22 TOTAL All Sectors	\$36,274,165	\$34,856,098	\$1,418,067	\$26,476,389	\$9,797,776	\$891,488	\$7,488,221	0\$	0\$	\$26,476,389	0\$	\$779,068	666'889\$	0\$	0\$	0\$	0\$
			•		•			•									Ī
EERMC	\$321,226	\$321,226	8	\$	\$321,226	S S	\$321,226	\$	8	\$		\$	\$	\$	\$	8	\$0
OER	\$321,226	\$321,226	88	S 5	\$321,226	\$ 5	\$321,226	\$0	8.8	S S	\$0	\$0\$	0,5	0\$ 9	S 5	8.8	\$0
OTHER COSTS NOT LISTED ABOVE (Electric)	2	Я.	3	04	06	2	06	O¢	7.	06		06	2	06	0,	7.	06
GRAND TOTAL	\$36,916,618	\$34,856,098	\$1,418,067	\$26,476,389	977,797,8	\$891,488	\$7,488,221	\$0	\$0	\$26,476,389	\$		\$638,999	8	\$0	\$0	\$0

PUC 1-35

Request:

Referring to the 2019 Year-End Report, "Schedule 3 – Expenses Categorized as Vendor Costs in Company's Systems," please provide similar schedules (for electric and gas) for the projected costs of the 2021 program which estimates the costs for 2021 for each program in each cost category identified in the schedule. Please use the Company's best estimate for costs anticipated in each category, based on the budget requested.

Response:

See Attachment PUC 1-35-1 and PUC 1-35-2.

	Schedule 3 - Vendor Services Costs (excluding re	bates/incentive	s) ⁶					
		(a)	(b)	(c)	(d)	(e)	(f)	(g)
				(a) - (b)			(d) + (e)	(c) + (f)
		Total Costs of						
		Services,	Rebate Payments	Payments to			Total of Vendor	
		Products, and	Made Directly to	Service Vendors			Costs Categorized	Total Costs from
		Rebates Provided	Customers by	for Costs Relating			as "External	Service Vendors,
		to Customers.2	National Grid and	to Services,			Costs" from	Excluding Rebate
		(also referred to	Rebates Paid to	Products, and	Direct	"External Costs"	Service Vendors	Payments Made
		as "Rebates and	PEX's to Whom	Processing Rebates	"External Costs"4	from Vendors	(excluding costs	Directly to
		Other Customer	Customer Rebates	(excluding costs	from Vendor	Originating from	included in	Customers by
		Incentives")	were Assigned 5	included in col. b) ³	Services	an Allocation	colums a, b & c)	National Grid
1	Residential New Construction	\$831,825	\$0		\$630,197	\$13,433	\$643,630	\$1,475,455
2	ENERGY STAR® HVAC	\$2,584,475	\$0	\$2,584,475	\$779,340	\$54,974	\$834,314	\$3,418,789
3	EnergyWise	\$14,772,222	\$0	\$14,772,222	\$1,789,655	\$216,546	\$2,006,201	\$16,778,423
4	EnergyWise Multifamily	\$2,482,000	\$0	\$2,482,000	\$458,059	\$37,299	\$495,358	\$2,977,358
5	Home Energy Reports	\$0	\$0	\$0	\$2,593,137	\$859	\$2,593,996	\$2,593,996
6	ENERGY STAR® Lighting	\$4,057,238	\$0	\$4,057,238	\$899,374	\$101,018	\$1,000,393	\$5,057,630
7	Residential Consumer Products	\$1,486,075	\$0	\$1,486,075	\$1,058,088	\$63,350	\$1,121,438	\$2,607,513
8	Residential ConnectedSolutions	\$1,369,168	\$0	\$1,369,168	\$544,720	\$17,999	\$562,719	\$1,931,887
9	Energy Efficiency Education	\$0	\$0	\$0	\$40,000	\$0	\$40,000	\$40,000
10	Residential Pilots	\$0	\$0	\$0	\$0	\$0	\$0	\$0
11	Residential Workforce Development	\$0	\$0	\$0	\$284,722	\$0	\$284,722	\$284,722
12	Community Based Initiatives - Residential	\$84,375	\$0	\$84,375	\$109,688	\$0	\$109,688	\$194,063
13	Comprehensive Marketing - Residential	\$0	\$0	\$0	\$325,000	\$0	\$325,000	\$325,000
14	Subtotal Non-Income Eligible Residential	\$27,667,378	\$0	\$27,667,378	\$9,511,981	\$505,479	\$10,017,460	\$37,684,837
15	Single Family - Income Eligible Services	\$11,022,955	\$0	\$11,022,955	\$2,354,927	\$162,954	\$2,517,881	\$13,540,836
16	Income Eligible Multifamily	\$4,243,200	\$0	\$4,243,200	\$447,067	\$59,190	\$506,257	\$4,749,457
17	Income Eligible Workforce Development	\$0	\$0	\$0	\$114,190	\$0	\$114,190	\$114,190
18	Subtotal Income Eligible Residential	\$15,266,155	\$0	\$15,266,155	\$2,916,184	\$222,144	\$3,138,328	\$18,404,482
19	Commercial New Construction	\$5,872,168	\$2,010,054	\$3,862,114	\$1,940,926	\$141,831	\$2,082,757	\$5,944,871
20	Commercial Retrofit	\$24,824,992	\$2,135,942	\$22,689,050	\$4,557,906	\$496,376	\$5,054,282	\$27,743,332
21	Small Business Direct Install	\$7,934,305	\$0	\$7,934,305	\$418,936	\$175,022	\$593,958	\$8,528,263
22	Commercial ConnectedSolutions	\$2,680,000	\$0	\$2,680,000	\$148,931	\$52,323	\$201,254	\$2,881,254
23	Commercial Pilots	\$0	\$0	\$0	\$0	\$0	\$0	\$0
24	Commercial Workforce Development	\$0	\$0	\$0	\$468,688	\$0	\$468,688	\$468,688
25	Community Based Initiatives - C&I	\$28,125	\$0	\$28,125	\$36,563	\$0	\$36,563	\$64,688
26	Finance Costs	\$5,000,000	\$0		\$0	\$0	\$0	\$5,000,000
27	Subtotal Commercial & Industrial	\$46,339,590	\$4,145,996		\$7,571,950	\$865,552	\$8,437,502	\$50,631,096
28	TOTAL All Sectors	\$89,273,122	\$4,145,996		\$20,000,114	\$1,593,174	\$21,593,289	\$106,720,415
	EERMO	• •	\$0		\$845,559	\$0	\$845,559	\$845,559
	OER	• •	\$0	\$0	\$845,559	\$0	\$845,559	\$845,559
	OTHER COSTS NOT LISTED ABOVE (Electric)	\$0	\$0	\$0	\$0	\$0	\$0	\$0

¹ The Company's accounting system treats all payments made directly to customers and vendors as one category of vendor expenses.
Rebates paid to customers through service contracts with vendors are included in the service cost of the vendor.

² This category has formally been labeled in prior year annual reports as " *Rebates and Other Customer Incentives* " in annual reports.

³ This cost category includes service costs for customers plus rebates/incentives processed and paid to customers by the vendor, but excludes rebates paid directly to customers by the Company in col (b).

⁴ The term "External Costs" has been used in Company reports to identify a subset of vendor costs not included in "Rebates and Other Customer Incentives".

 $^{^{\}bf 5}$ Splits between columns (b) and (c) have been estimated using historical splits.

⁶ Within this report the term "Vendor" refers to both vendors and other external entities.

	Schedule 3 - Vendor Services Costs (excluding rel	bates/incentive	s) ⁶					
		(a)	(b)	(c)	(d)	(e)	(f)	(g)
				(a) - (b)			(d) + (e)	(c) + (f)
		Total Costs of						
		Services,	Rebate Payments	Payments to			Total of Vendor	
		Products, and	Made Directly to	Service Vendors			Costs Categorized	Total Costs from
		Rebates Provided	Customers by National Grid and	for Costs Relating			as "External	Service Vendors,
		to Customers. ²	Rebates Paid to	to Services, Products, and	Direct		Costs" from	Excluding Rebate
		(also referred to as "Rebates and	PEX's to Whom	Processing Rebates	"External Costs" ⁴	"External Costs"	Service Vendors	Payments Made
		Other Customer	Customer Rebates	(excluding costs	from Vendor	from Vendors Originating from	(excluding costs included in	Directly to Customers by
		Incentives")	were Assigned 5	included in col. b) ³	Services	an Allocation	colums a, b & c)	National Grid
1	Residential New Construction	\$491,175	\$0		\$135,205	\$8,797	\$144,002	\$635,177
2	ENERGY STAR® HVAC	\$3,012,973	\$0		\$474,921	\$69,400	\$544,321	\$3,557,294
3	EnergyWise	\$8,359,746	\$0	\$8,359,746	\$1,395,130	\$152,891	\$1,548,021	\$9,907,767
4	EnergyWise Multi Family	\$1,216,000	\$0	\$1,216,000	\$202,502	\$24,220	\$226,721	\$1,442,721
5	Home Energy Reports	\$0	\$0	\$0	\$438,034	\$0	\$438,034	\$438,034
6	Residential Workforce Development	\$0	\$0	\$0	\$118,267	\$0	\$118,267	\$118,267
7	Community Based Initiatives - Residential	\$28,125	\$0	\$28,125	\$36,563	\$0	\$36,563	\$64,688
8	Comprehensive Marketing - Residential	\$0	\$0	\$0	\$60,000	\$0	\$60,000	\$60,000
9	Subtotal Non-Income Eligible Residential	\$13,108,019	\$0	\$13,108,019	\$2,860,621	\$255,309	\$3,115,929	\$16,223,948
10	Single Family - Income Eligible Services	\$5,253,000	\$0	\$5,253,000	\$1,290,101	\$93,982	\$1,384,083	\$6,637,083
11	Income Eligible Multifamily	\$2,667,000	\$0	\$2,667,000	\$484,399	\$47,199	\$531,598	\$3,198,598
12	Income Eligible Workforce Development	\$0	\$0	\$0	\$49,623	\$0	\$49,623	\$49,623
13	Subtotal Income Eligible Residential	\$7,920,000	\$0	\$7,920,000	\$1,824,123	\$141,180	\$1,965,304	\$9,885,304
14	Large Commercial New Construction	\$1,264,144	\$551,267	\$712,877	\$1,065,692	\$87,021	\$1,152,713	\$1,865,590
15	Large Commercial Retrofit	\$2,988,797	\$697,669	\$2,291,128	\$1,345,332	\$123,568	\$1,468,900	\$3,760,028
16	Small Business Direct Install	\$251,774	\$0	\$251,774	\$42,164	\$8,183	\$50,348	\$302,122
17	Commercial & Industrial Multifamily	\$756,000	\$0	\$756,000	\$136,090	\$23,738	\$159,828	\$915,828
18	Commercial Pilots	\$178,280	\$0	\$178,280	\$37,500	\$0	\$37,500	\$215,780
19	Commercial Workforce Development	\$0	\$0	\$0	\$164,510	\$0	\$164,510	\$164,510
20	Community Based Initiatives - C&I	\$9,375	\$0	\$9,375	\$12,188	\$0	\$12,188	\$21,563
27	Subtotal Commercial & Industrial	\$5,448,370	\$1,248,936	\$4,199,434	\$2,803,477	\$242,510	\$3,045,987	\$7,245,421
28	TOTAL All Sectors	\$26,476,389	\$1,248,936	\$25,227,453	\$7,488,221	\$638,999	\$8,127,220	\$33,354,672
	EERMC	\$0	\$0	\$0	\$321,226	\$0	\$321,226	\$321,226
	OER		\$0	\$0	\$321,226	\$0	\$321,226	\$321,226
	OTHER COSTS NOT LISTED ABOVE (Electric)	\$0	\$0	\$0	\$0	\$0	\$0	\$0

¹ The Company's accounting system treats all payments made directly to customers and vendors as one category of vendor expenses.
Rebates paid to customers through service contracts with vendors are included in the service cost of the vendor.

² This category has formally been labeled in prior year annual reports as " *Rebates and Other Customer Incentives* " in annual reports.

³ This cost category includes service costs for customers plus rebates/incentives processed and paid to customers by the vendor, but excludes rebates paid directly to customers by the Company in col (b).

⁴ The term "External Costs" has been used in Company reports to identify a subset of vendor costs not included in "Rebates and Other Customer Incentives".

 $^{^{\}mbox{\scriptsize 5}}$ Splits between columns (b) and (c) have been estimated using historical splits.

 $^{^{\}bf 6}$ Within this report the term "Vendor" refers to both vendors and other external entities.

Redacted PUC 1-36

Request:

Referring to the 2019 Year-End Report, "Confidential Vendor Schedule 4 – Rhode Island Energy Efficiency Vendor Costs >\$1M (Electric and Natural Gas)," please provide a similar schedule for the projected costs of the 2021 program that the Company reasonably estimates would be incurred through the vendors, as categorized on the schedule. Please use the Company's best estimate for costs anticipated in each category, based on the budget requested. [The Company may be granted Confidential Treatment for this Schedule.]

Response:

See Attachment PUC 1-36. This attachment has been updated to provide the Company's current best estimates of projected 2021 vendor expenses in columns (a) – (f), assuming that the Company achieves 100% of planned savings and implementation expenses in 2021, in line with planned distribution of measure and program contributions. In preparing this attachment, the Company has only updated columns A-F, and has not updated other columns providing more qualitative descriptions of each vendor and the services it provides.

Please note that in preparing Annual Plans, the Company plans savings and associated budgets at the program level, not at the vendor level.

In any given program year, specific contracts may be amended or replaced as the Company continues its pursuit of cost efficient savings and vendor service delivery.

For purposes of this estimate, all programs administered by a particular vendor in 2019 (the most recent year from which the Company has access to and can utilize full year actual expenses) were assumed to be administered by the same vendor in 2021, unless a change of vendor was specifically noted¹.

From there, the Company assumed that existing contract terms and pricing would stay in place for 2021. (In reality, terms and pricing can be subject to change). The vendor level budget estimates in this Attachment were then estimated based on scaling actual 2019 vendor expenses

¹ After 2019, rebate processing administration for the EnergyStar HVAC program (electric and gas) moved to the vendor Energy Federation Inc. This transfer of costs to Energy Federation Inc. has been reflected in Attachment 1-36 for the 2021 program year

Redacted PUC 1-36, page 2

by a factor equal to assumed program level cost category budget changes between 2019 actuals² and 2021 program level cost category implementation budgets.³

For example, RISE Engineering is the lead vendor providing services to the Company under the EnergyWise single-family electric program. In 2019, the Company spent through RISE Engineering in the "Cost of services and product rebates/incentives provided to customers" cost category for this program.

In 2021, the EnergyWise single family electric program budget for "Cost of services and product rebates/incentives provided to customers" is 6.9% larger than the 2019 actual implementation expenditures in this same cost category for this electric program. Accordingly, the EnergyWise single family electric program estimated 2021 spend with RISE Engineering in this category was increased by the same 6.9% for purposes of calculating total anticipated spend with RISE Engineering in this cost category. (For purposes of clarity, the total estimated spend with RISE Engineering in this cost category is as this value includes all programs delivered through RISE, not just the EnergyWise single family electric program. This same process was followed for estimating 2021 expenditures with RISE Engineering for all programs through which this vendor delivers services to the Company).

This estimate of vendor costs does not include any estimates of customer costs for 2021.

 2 2019 Actuals utilized were based on the Non-Confidential Schedules 1E and 1G by Report Category. 2021 budgets utilized were based on the E-2 and G-2 tables.

³ Exceptions to this include: The State of Rhode Island where the budget for OER (Office of Energy Resources) were pulled directly from the 2021 E-2 and G-2 table budgets. The vendor Oracle, where costs were pulled from the E-2 and G-2 budgets directly because costs were recategorized to column (d) in 2021 from column (c) in 2019 and therefore could not scaled.

Attachment PUC 1-36

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Please see the Company's Confidential Excel file of Attachment PUC 1-36

PUC 1-37

Request:

Please provide a bill impact analysis showing the bill impacts of the proposed 2021-23 proposed budgets in dollar amounts for the average customer in each class, using the same type of bill impact schedules as it typically provided by the Company when other rate changes are requested for the Annual Retail Rate filing on the electric side and the DAC on the gas side. For purposes of this response, keep all other rates and charges the same other than the charge associated with the 2021-23 EE proposed budgets.

Response:

The following tables show the monthly bill impacts for a typical electric customer using 500 kWh per month:

Table 1: BASE CASE 500 kWh Residential A16 Customer

Year	Starting Bill	Ending Bill	Dollar Increase	Percent
				Increase
2021	\$121.79	\$121.79	\$0.00	0.0%
2022	\$121.79	\$124.34	\$2.55	2.1%
2023	\$124.34	\$125.39	\$1.05	0.8%

Table 2: HIGH SCENARIO 500kWh Residential A16 Customer

Year	Starting Bill	Ending Bill	Dollar Increase	Percent
				Increase
2021	\$121.79	\$121.79	\$0.00	0.0%
2022	\$121.79	\$124.92	\$3.13	2.6%
2023	\$124.92	\$126.78	\$1.86	1.5%

The following tables show the annual bill impacts for a gas customer using 845 therms per year:

Table 3: BASE CASE 845 Therms Residential Heating Customer

Year	Starting Bill	Ending Bill	Dollar Increase	Percent
				Increase
2021	\$1,335.02	\$1,335.02	\$0.00	0.0%
2022	\$1,335.02	\$1,354.45	\$19.42	1.5%
2023	\$1,354.45	\$1,369.20	\$14.75	1.1%

PUC 1-37, page 2

Table 4: HIGH SCENARIO 845 Therms Residential Heating Customer

			\mathcal{C}	
Year	Starting Bill	Ending Bill	Dollar Increase	Percent
				Increase
2021	\$1,335.02	\$1,335.02	\$0.00	0.0%
2022	\$1,335.02	\$1,369.78	\$34.75	2.6%
2023	\$1,369.78	\$1,398.79	\$29.01	2.1%

Attachments PUC 1-37 (1) through 1-37 (3) and Attachments PUC 1-37(4) through 1-37(6) are the full requested electric bill impact schedules for the base case scenario and the high scenario, respectively. Attachments PUC 1-37 (7) through 1-37 (9) and Attachments PUC 1-37(10) through 1-37(12) are the full requested gas bill impact schedules for the base case scenario and the high scenario, respectively.

The Narragansett Electric Company Calculation of Monthly Typical Bill Total Bill Impact of Proposed Rates Applicable to A-16 Rate Customers

The Narragansett Electric Company
db/a National Grid
RPUCI Docket 5076
Attachment 1-37 (1)
Base Case Year I
Page 1 of 6

Monthly KWh (a)		otoc Hitachina N	Orombor 7077		Drong	aced Pates offert	Proposed Pates offertive Language 1 202	16		(Thorses (Decrease)	(Dogeogea)			Increase (Decrease) % of Total Bill	% of Total Bill		Dercentage
Monthly kWh (a)		rates Effective Novelines 1, 2020	overinger 1, 2020			osen wates effect	ive January 1, 20.	17		o marga	(Decrease)			iiciease (Deciease)	% OI TOTAL DIII		retremage
	Delivery Services (b)	Supply Services (c)	GET (d) (e) =	Total (e) = (a) + (b) + (c)	Delivery Services	Supply Services (g)	GET (i) :	Total $(i) = (f) + (g) + (h)$	Delivery Services (i) = (f) - (b)	Supply Services $(k) = (g) - (c)$	GET (I) = (Ii) - (d) (II	Total $(m) = (j) + (k) + (l)$	Delivery Services (n) = (i) / (e)	Supply Services $(0) = (g) / (e)$	GET (p) = (h) / (e) (q	Total (a) = (m) / (e)	of Customers
150	\$25.79	\$15.56	\$1.72	\$43.07	\$25.79	\$15.56	1.72	\$43.07	_			\$0.00	0.0%			0.0%	30.1%
300	\$42.63	\$31.11	\$3.07	\$76.81	\$42.63	\$31.11	\$3.07	\$76.81	\$0.00	\$0.00	\$0.00	\$0.00	0.0%	%0.0	0.0%	0.0%	12.9%
400	\$53.85	\$41.48	\$3.97	\$99.30	\$53.85	\$41.48	\$3.97	\$99.30	\$0.00	\$0.00	\$0.00	\$0.00	0.0%	0.0%	0.0%	0.0%	11.6%
200	\$65.07	\$51.85	\$4.87	\$121.79	\$65.07	\$51.85	\$4.87	\$121.79	\$0.00	\$0.00	\$0.00	\$0.00	0.0%	0.0%	0.0%	0.0%	9.6%
009	\$76.29	\$62.22	\$5.77	\$144.28	\$76.29	\$62.22	\$5.77	\$144.28	\$0.00	\$0.00	\$0.00	\$0.00	0.0%	0.0%	0.0%	0.0%	7.7%
700	\$87.51	\$72.59	\$6.67	\$166.77	\$87.51	\$72.59	\$6.67	\$166.77	\$0.00	\$0.00	\$0.00	\$0.00	0.0%	0.0%	0.0%	0.0%	19.0%
1,200	\$143.62	\$124.44	\$11.17	\$279.23	\$143.62	\$124.44	\$11.17	\$279.23	\$0.00	\$0.00	\$0.00	\$0.00	0.0%	0.0%	0.0%	0.0%	6.8%
2,000	\$233.40	\$207.40	\$18.37	\$459.17	\$233.40	\$207.40	\$18.37	\$459.17	\$0.00	\$0.00	\$0.00	\$0.00	0.0%	0.0%	0.0%	0.0%	2.3%
		-	Rates Effective November 1, 2020	vember 1, 2020		Propose	Proposed Rates effective January 1, 2021	January 1, 2021	_1	Line Item on Bill							
(1) Distribution Customer Charge				(s) \$6.00				\$6.00	0	Customer Charge							
				\$0.80				\$0.80	J	LIHEAP Enhancement Charge	nent Charge						
(3) Renewable Energy Growth Program Charge (4) Distribution Charge (nor LWh)	Charge			\$2.16				\$2.16	2	RE Growth Program	ш						
	Charge			\$0.00212				\$0.00212									
	Reconciliation Fa	actor		\$0.00002				\$0.00002									
				\$0.00396				\$0.00396									
				\$0,00090				\$0.00090			1						
(9) Revenue Decoupling Adjustment Factor	ıctor			\$0.00118				\$0.00118	Δ	Distribution Energy Charge	y Charge						
(10) Pension Adjustment Factor (11) Storm Bind Benjanishment Factor				(\$0.00073)				(\$0.000/3)									
(12) Arreange Management Adjustment Factor	Factor			\$0.00015				\$0.00258									
(13) Performance Incentive Factor				\$0.00005				\$0.00005									
(14) Low Income Discount Recovery Factor	tor			\$0.00176				\$0.00176									
(15) Long-term Contracting for Renewable Energy Charge	ole Energy Charg	9		\$0.00931				\$0.00931	R	Renewable Energy Distribution Charge	Distribution Cha	ırge					
(16) Net Metering Charge				\$0.00266				\$0.00266									
(17) Base Hallshibston Charge (18) Transmission Adjustment Factor				\$0.03098				\$0.03096	F	Transmission Charge	ale.						
(19) Transmission Uncollectible Factor				\$0.00038				\$0.00038			0						
(20) Base Transition Charge				(\$0.00074)				(\$0.00074)	F	Constitution							
(21) Transition Adjustment				(\$0.00008)				(\$0.00008)		ransinon cuarge							
(22) Energy Efficiency Program Charge				\$0.01353				\$0.01353	H	Energy Efficiency Programs	Programs						
(23) Standard Offer Service Base Charge				\$0.09568				\$0.09568									
				(\$0.00294)				(\$0.00294)	S	Supply Services Energy Charge	rergy Charge						
(22) SOS Administrative Cost Adjustment ractor (26) Renewable Energy Standard Charge	it Factor			\$0.00230				\$0.00230									
Line Item on Bill				00 9\$				009\$									
				\$0.80				\$0.80									
(29) RE Growth Program				\$2.16				\$2.16									
(30) Transmission Charge (31) Dietribution France Charge			kWh x	\$0.02945				\$0.02945									
(32) Transition Charge			kWh x	(\$0.00082)				(\$0.00082)									
(33) Energy Efficiency Programs	· ·		kWh x	\$0.01353			Ш	\$0.01353									
(35) Supply Services Energy Charge	20		kWh x	\$0.10370				\$0.10370									

Column (s); per Summany of Retail Delivery Service Rates, R.L.P.U.C. No. 2095 effective 10/1/2020, and Summany of Rates Standard Offer Service tariff, R.L.P.U.C. No. 2096, effective 10/1/2020, and Summany of Rates Standard Offer Service tariff, R.L.P.U.C. No. 2096, effective 10/1/2020,

The Narragansett Electric Co dh'su Nations RPUC Docks Attachment 1. Base Case Posses

Column Secretary Supply			2	Rates Effective November 1, 2020	vember 1, 2020				Propos	xd Rates effective	Proposed Rates effective January 1, 2021				S Increase (Decrease)	crease)		Incres	Increase (Decrease) % of Total Bill	of Total Bill	Pe	Percentage
No. 10. No.		Delivery		Low Income	Discounted			Delivery	Supply	ow Income	Discounted				Supply				Supply			Justomers
14 12 12 12 12 12 12 12	kWh	Services	Services	Discount (d) = [(b)+(c)] (Total (e) = (b) + (c)	H H	Total	Services			Total $(i) = (h) + (i)$	T E T			Services				Services	GET	Total	
10 10 10 10 10 10 10 10	(a)	(p)	(c)	x25	(p) +		(g) = (e) + (f)	(h)			+(j)		_								= (d) ÷ (g)	(v)
10.00 10.0	150	\$25.53	\$15.56	(\$10.27)	\$30.82	\$1.28	\$32.10	\$25.53	\$15.56	(\$10.27)	\$30.82	\$1.28	\$32.10	\$0.00	80.00	\$0.00	\$0.00	0.0%	%0.0	%0.0	0.0%	32.1%
400 501 5114 5414 5	300	\$42.10	\$31.11	(\$18.30)	\$54.91	\$2.29	\$57.20	\$42.10	\$31.11	(\$18.30)	\$54.91	\$2.29	\$57.20	\$0.00	80.00	\$0.00	\$0.00	0.0%	%0.0	%0.0	0.0%	15.4%
900 901 5112 5121 5122 5121 5122 5121 5122 5121 5122 5121 5122 5121 5122 5121 5122 5121 5122 5121 5122 5121 5122 5121 5122 5121 5122 5121 5122 5	400	\$53.14	\$41.48	(\$23.66)	\$70.96	\$2.96	\$73.92	\$53.14	\$41.48	(\$23.66)	\$70.96	\$2.96	\$73.92	\$0.00	80.00	\$0.00	\$0.00	0.0%	0.0%	0.0%	0.0%	12.5%
1.00 1.53 1.54	200	\$64.19	\$51.85	(\$29.01)	\$87.03	\$3.63	\$90.66	\$64.19	\$51.85	(\$29.01)	\$87.03	\$3.63	\$90.66	80.00	80.00	80.00	80.00	0.0%	960'0	0.0%	960.0	%9'6
1. 1. 1. 1. 1. 1. 1. 1.	009	\$75.24	\$62.22	(\$34.37)	\$103.09	\$4.30	\$107.39	\$75.24	\$62.22	(\$34.37)	\$103.09	\$4.30	\$107.39	80.00	80.00	\$0.00	80.00	%0.0	0.0%	%0.0	0.0%	7.2%
1,200 1,214 1,21	700	\$86.28	\$72.59	(\$39.72)	\$119.15	\$4.96	\$124.11	\$86.28	\$72.59	(\$39.72)	\$119.15	\$4.96	\$124.11	\$0.00	\$0.00	\$0.00	80.00	0.0%	0.0%	%0.0	0.0%	16.4%
1, 10, 10, 10, 10, 10, 10, 10, 10, 10,	1,200	\$141.51	\$124.44	(\$66.49)	\$199.46	\$8.31	\$207.77	\$141.51	\$124.44	(\$66.49)	\$199.46	\$8.31	\$207.77	80.00	80.00	80.00	80.00	0.0%	90.0	%0.0	0.0%	5.2%
Prograde Rate effective Journal Coloration	2,000	\$229.88	\$207.40	(\$109.32)	\$327.96	\$13.67	\$341.63	\$229.88	\$207.40	(\$109.32)	\$327.96	\$13.67	\$341.63	80.00	80.00	\$0.00	80.00	0.0%	0.0%	0.0%	0.0%	1.6%
Distribution Customer Charge Sacot	•																				•	
ENERGY ENGINEE \$6.00					Rate	s Effective Now	(w)				Proposed Rat	es effective Jan	uary 1, 2021 (x)	크	ne Item on Bill							
LIREDY Enhancement Change \$ 0.80 \$ 0.80 \$ 0.80 \$ 0.80 \$ 0.00	(1) Distribution Customer Charge						\$6.00						\$6.00	Cus	stomer Charge							
SEATION DESIGNATION CHANGE PROPER AND CHANG		9					\$0.80						\$0.80	SIT	EAP Enhanceme	ent Charge						
2004380 2004		ogram Charge					\$2.16						\$2.16	RE	Growth Program	_						
Operating & Maintenance Expense Charges \$1000022 \$1000002 Operating & Maintenance Expense Charges \$1000090 \$1000090 Synonose \$1000090 \$1000090 Capte Facier Charges \$1000090 \$1000090 Capter Facier Charges \$1000090 \$1000090 Revision Adjantent Facier \$1000090 \$1000090 Revision Adjantent Facier \$1000000 \$1000000 Revision Adjantent Facier \$1000000 \$1000000 Revision Adjantent Facier \$10000000 \$1000000 Revision Adjantent Facier \$10000000 \$1000000 Revision Adjantent Facier \$10000000 \$1000000 Revision Adjantent Facier \$1000000 \$1000000 Revision Adjantent Facier \$1000000 \$1000000 Revision Character Exercite Revision Charges \$1000000 \$1000000 Net Adverting Charge Facier Revision Charges \$1000000 \$1000000 Read Transmission Charge Facier Revision Charges \$10000000 \$1000000 Story Revision Charge Facier Revision Charge Facier Revision Charge Facier Revision Charge Facier Revision Charge Facier Revision Ch	(4) Distribution Charge (per kWh	(1)					\$0.04580						\$0.04580									
Operating & Maintenance Expense Recordination Factor \$000002 \$000002 Operating & Maintenance Expense Recordination Factor \$000009 \$000009 Age French Maintenance Expense Recordination Factor \$000009 \$000018 Reveator Decordination Factor \$0000038 \$000018 Reveator Repeated Repeated Factor \$0000038 \$000018 Storm Maintenance Recordination Factor \$0000038 \$0000038 Storm Maintenance Recordination Factor \$0000038 \$0000038 Assemble Maintenance Records Peater \$0000003 \$0000035 Long beams Describer Records Peater \$0000003 \$0000035 Long beams Describer Records Peater \$0000003 \$0000035 Long beams Describer Records Charge \$0000003 \$0000035 Read Transition Charge \$0000003 \$0000003 Rample Charge Records Adjustment Record \$0000039 \$0000039 Rample Charge Records Adjustment Record \$0000039 \$0000039 Storm Adjustment Record \$0000039 \$0000039 \$0000039 Storm Adjustment Record Records Adjustment Peater Record Program Charge \$0000039 <th< td=""><td> Operating & Maintenance Exp </td><td>pense Charge</td><td></td><td></td><td></td><td></td><td>\$0.00212</td><td></td><td></td><td></td><td></td><td></td><td>\$0.00212</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>	 Operating & Maintenance Exp 	pense Charge					\$0.00212						\$0.00212									
Capit Recording the growth regions become a south of the Recording Recording Agriculture (Record Charge) \$0.000996 \$0.000999 \$0.000996 \$0.000996 \$0.000996 \$0.000996 \$0.000996 \$0.000996 \$0.000996 </td <td></td> <td>pense Reconciliati</td> <td>on Factor</td> <td></td> <td></td> <td></td> <td>\$0.00002</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>\$0.00002</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		pense Reconciliati	on Factor				\$0.00002						\$0.00002									
Capta Reconstrained regard 8000018 8000018 Peach Reconstrained regard 8000018 8000018 Peach on Adjantment Factor 8000018 8000018 Peach on Adjantment Factor 8000005 8000005 Actoratege Management Adjantment Factor 8000005 8000005 Performance Incentive Factor 8000000 8000000 Performance Incentive Factor 8000000 8000000 Performance Incentive Factor 8000000 8000000 Long-term Connecting for Renewable Energy Change 8000000 8000000 Base Transmission Change 8000000 8000000 8000000 Transmission Change 80000000 8000000 8000000 Base Transmission Change 80000000 80000000 80000000 Base Transmission Change 80000000 80000000 80000000 Base Transmission Change 80000000 80000000 80000000 Stock Administractive Care Adjantment Factor 80000000 8000000 8000000 Stock Administractive Care Adjantment Factor 80000000 80000000 80000000<	(7) CapEx Factor Charge						\$0.00396						\$0.00396									
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Account Programmer Region Account Recovery Pictor Account Recovery Account Account Recovery Account	(9) Revenue Decoupling Adjustin	ent Factor					\$0.00118						\$0.00118	ī	stribution Energy	y Charge						
Soundays Soundays Soundays Soundays Soundays Soundays Soundays Soundays Soundays Performance Incentive Factor Soundays Soundays Performance Incentive Factor Soundays Soundays Company Recovery Factor Soundays Soundays And Meeting Charge Soundays Soundays Near Hostering Charge Soundays Soundays Near Entransition Charge Franciscon Charge Soundays Soundays Transmission Adjustment Factor Soundays Soundays Energy Efficiency Charge Soundays Soundays Sounday Offer Service Base Charge Soundays Soundays SON Adjustment Factor Soundays Soundays Recovery Program	(10) Pension Adjustment Factor	1					(\$0.000/3)						(\$0.000/3)									
Street S	(11) Storm Fund Replemsnment F (12) Amount Management Ading	actor					\$0.00288						\$0.00288									
Storogon Storogon	(13) Performance Incentive Factor	TOTAL TARGET					\$00000\$						\$00000\$									
South Section South Sectin South Section South Section South Section South Section	(14) Low Income Discount Recove	rv Factor					\$0.0000						\$0.0000									
Stoods	(15) Long-term Contracting for Rei	newable Energy C	harge				\$0.00931						\$0,00931		:							
St. Oxidate \$0.0396 \$0.0396 \$0.0396 \$0.0008	(16) Net Metering Charge						\$0.00266						\$0.00266	Re	newable Energy	Distribution Cha	urge					
Transmission Adjustment Factor (\$0.00189) (\$0.00189) Transmission Adjustment Factor \$0.00074 \$0.00074 \$0.00074 Base Transition Charge \$0.00074 \$0.00074 \$0.00074 Energy Efficiency Legacy \$0.00074 \$0.00074 \$0.00074 Energy Efficiency Program Charge \$0.00074 \$0.00024 \$0.000294 SSA Adjustment Factor \$0.00024 \$0.000294 \$0.000294 SSA Adjustment Factor \$0.00024 \$0.000294 \$0.000294 SSA Adjustment Factor \$0.00029 \$0.00029 \$0.000294 SSA Adjustment Factor \$0.00029 \$0.00029 \$0.000294 SSA Adjustment Factor \$0.000294 \$0.000294 \$0.000294 Reavable Energy Standard Charge \$0.00294 \$0.00294 \$0.00294 RE Growth Program \$0.00294 \$0.00294 \$0.00294 \$0.00294 Reavable Energy Efficiency Program \$0.00294 \$0.00294 \$0.00294 \$0.00294 \$0.00294 Reavable Energy Efficiency Program \$0.00197 \$0.0037 \$0.0037 \$0.0037 </td <td>(17) Base Transmission Charge</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>\$0.03096</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>\$0.03096</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	(17) Base Transmission Charge						\$0.03096						\$0.03096									
Transmission Uncollete Factor \$000038 \$1000038 Transmission Uncollete Factor \$000034 \$1000038 Transision Adjustment \$1000003 \$1000003 Energy Efficiency Pergen Change \$1001353 \$1000034 Stonder Off Person Change \$1000024 \$1000024 Stonder Off Person Change \$1000024 \$1000024 SON Adjustment Factor \$1000024 \$1000024 SON Adjustment Factor \$1000024 \$1000024 Remeable Energy Standard Change \$1000024 \$1000024 Soundard Change \$1000024 \$1000024 Soundard Change \$1000024 \$1000024 Soundard Change \$1000024 \$1000024 Soundard Change \$1000024 \$1000024 </td <td>(18) Transmission Adjustment Fac</td> <td>tor</td> <td></td> <td></td> <td></td> <td></td> <td>(\$0.00189)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>(\$0.00189)</td> <td>Ħ</td> <td>ansmission Charg</td> <td>aže</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	(18) Transmission Adjustment Fac	tor					(\$0.00189)						(\$0.00189)	Ħ	ansmission Charg	aže						
Buengle Efficiency Program Charge \$0000074 \$00000	(19) Transmission Uncollectible F.	actor					\$0.00038						\$0.00038									
Account Acco	(20) Base Transition Charge						(\$0.00074)						(\$0.00074)	Ţ	ansition Charge							
Standard Offer Service Base Change \$0009568 \$0009568 SOS Adhustment Factor \$000294) \$000294) SOS Adhustment Factor \$0002940 \$0002024) Rearwable Energy Standard Change \$000200 \$000866 Rearwable Energy Standard Change \$000866 \$000866 Costsoner Change \$000866 \$000866 RE Growth Program \$002945 \$000866 Rearwable Energy Standard Change \$002945 \$000866 Rearwable Energy Standard Change \$002945 \$000866 Rearwable Energy Standard Change \$000866 \$000866 Rearwable Energy Standard Change \$000866 \$000866 Substance Change \$000866 \$000866 Substance Change \$000866 \$000866 Substance Change \$0008673 \$0008673 Substance Change \$0008673 \$0008673 Substance Change \$0008673 \$000873 Substance Change \$000873 \$000873 Substance Change \$000873 \$000877 Substance Change <t< td=""><td>(22) Energy Efficiency Program Cl</td><td>harge</td><td></td><td></td><td></td><td></td><td>\$0.01353</td><td></td><td></td><td></td><td></td><td></td><td>\$0.01353</td><td>Ene</td><td>arev Efficiency Pr</td><td>rograms</td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	(22) Energy Efficiency Program Cl	harge					\$0.01353						\$0.01353	Ene	arev Efficiency Pr	rograms						
SOS Adjustment Eactor (\$000294) (\$000294) Renewable Energy Standard Change \$0.00866 \$0.00866 Renewable Energy Standard Change \$0.00866 \$0.00866 Line Item on Bill \$6.00 \$0.80 Casanane Change \$0.00 \$0.80 Casanane Change \$0.21 \$0.00 RECOVED Program \$0.0245 \$0.00 Transation Change \$0.00245 \$0.00 Transation Change \$0.00245 \$0.00 Transition Change \$0.00 \$0.00 Renewable Energy Change \$0.00 \$0.00 Renewable Energy Change \$0.00 \$0.00 South Program \$0.00 \$0.00 Renewable Energy Change \$0.00 \$0.00 South Program \$0.00 \$0.00 South Program \$0.00 \$0.00 Renewable Energy Change \$0.00 \$0.00 South Program \$0.00 \$0.00 South Program \$0.00 \$0.00 South Program \$0.00 \$0.00 <td>(23) Standard Offer Service Base C</td> <td>Charge</td> <td></td> <td></td> <td></td> <td>1</td> <td>\$0.09568</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>\$0.09568</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	(23) Standard Offer Service Base C	Charge				1	\$0.09568						\$0.09568									
SOS Administrative Cost Adjustment Factor \$0,000230 \$0,000230 Removable Energy Standard Charge \$0,000866 \$0,000866 Section of Line Item on Bill \$6,00 \$6,00 Customer Charge \$0,830 \$0,830 ERG Coverth Program \$0,000245 \$0,800 RE Growth Program is a contract Charge \$0,000245 \$0,00045 Remains Charge \$0,000245 \$0,00045 Substitution Energy Charge \$0,000820 \$0,000820 Energy Efficiency Program \$0,000820 \$0,000820 Energy Efficiency Program \$0,000820 \$0,000820 Remain Charge \$0,000820 \$0,000820 Scottlister \$0,000820	(24) SOS Adjustment Factor						(\$0.00294)						(\$0.00294)	IIIS:	nnly Services Ene	arov Charoe						
Labe Bern of Bill \$6.00	(25) SOS Adminstrative Cost Adju	Istment Factor					\$0.00230						\$0.00230		The same same same	9 (9 (1)						
Customer Charge \$6.00 LEHAP Palmanement Charge \$2.08 LEHAP Palmanement Charge \$2.16 LEHAP Palmanement Charge \$2.16 Transition Charge \$0.002945 Transition Charge \$0.003945 T		narge					\$0.00800						90,00000									
MEM-Pa binary can be a second by the second by the second binary binar	(27) Customer Charge						\$6.00						\$6.00									
New Confort Transmission Charge S0.07945 Transmission Charge S0.07945 Distribution Charge S0.07945 Transmission Charge S0.001853 Transmission Charge S0.01853 Remeay Bridgerory Programs S0.01187 S0.01	(28) LIHEAP Enhancement Charg.	e					\$0.80						\$0.80									
Distribution Energy Charge \$0.05633 Transition Charge \$0.000082 Energy Efficiency Programs \$0.01353 Remeay Efficiency Polaribution Charge \$0.01197 Supply Service Energy Charge \$0.01197 Subply Service Energy Charge \$0.0710 Discount recreations \$0.00000	(30) Transmission Charge						\$0.02945						\$0.02945									
Contraction Charge Control Charge	(31) Distribution Energy Charge						\$0.05633						\$0.05633									
Renewable Energy Distribution Charge \$6001197 \$600 \$0.0370 \$0.0370 \$0.137 \$0.0400 \$0.0400 \$0.0400	(32) Transition Charge (33) Energy Efficiency Programs					L	\$0.00082)					L	\$0.00082)									
Whiphy Services Integral Charge State	(34) Renewable Energy Distribution	on Charge				_	\$0.01197						\$0.01197									
	(35) Supply Services Energy Charg (36) Discount percentage	še					50.10370						50.10370									

Column (w); per Summany of Retail Delivery Service Rates, R.I.P.U.C. No. 2095 effective 101/2020, and Summany of Rates Sumdard Offer-Service tariff, R.I.P.U.C. No. 2095, effective 101/2020, and Summany of Rates Sundard Offer-Service tariff, R.I.P.U.C. No. 2096, effective 101/2020, and Summany of Rates Sundard Offer-Service tariff, R.I.P.U.C. No. 2096, effective 101/2020

Percentage		(v) = (g) ÷ (p) = (u)	0.0% 32.1%	0.0% 15.4%	0.0% 12.5%	%9.6 %0.0	0.0% 7.2%	0.0% 16.4%	0.0% 5.2%	0.0% 1.6%																								
of Total Bill	GET T	$(t) = (p) \div (f) (u) =$	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%																								
Increase (Decrease) % of Total Bill	Supply Services	$(s) = (o) \div (c)$ (t)	0.0%	90.0	90.0	960.0	960.0	0.0%	0.0%	0.0%																								
	.1.	(p)+(q)] (s	%0.0	0.0%	0.0%	0.0%	0.0%	0.0%	%0.0	%0.0																								
	Total $(q) = (n) + (o)$	(d) +	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00															Charge									
\$ Increase (Decrease)	GET	(b) - (1) = (d)	\$0.00	80.00	80.00	80.00	80.00	\$0.00	80.00	\$0.00	=		e cement Charge	gram					anua Charus	cigy Charge					Renewable Energy Distribution Charge		harge		ə.	cy Programs		Supply Services Energy Charge		
\$ Increase	Supply Services	(0) = (i) - (c)	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	Line Item on Bill	Ē	Customer Charge LIHEAP Enhancement Charge	RE Growth Program					Dietribution Engray Charge	Distribution Ell					Renewable Ene		Transmission Charge		Transition Charge	Energy Efficiency Programs		Supply Services		
	(L)	[(p)+(q)]	\$0.00	\$0.00	80.00	80.00	80.00	\$0.00	\$0.00	\$0.00																								
	Total	(m) = (k) + (l)	\$29.96	\$53.39	\$68.99	\$84.61	\$100.23	\$115.84	\$193.92	\$318.85	Proposed Rates effective January 1, 2021	(x)	\$6.00	\$2.16	\$0.04580	\$0.00212	\$0.00002	\$0.00396	\$0.00090	\$0.00118	\$0.000/3	\$0.00015	\$0.00005	\$0.0000	\$0.00931	\$0.03096	(\$0.00189)	\$0.00038	(\$0.00074)	\$0.01353	\$0.09568	(\$0.00294)	\$0.00250	\$6.00 \$0.80 \$2.16 \$0.02945 \$0.02945 \$0.00082) \$0.0137
2021	0	(1)	\$1.20	\$2.14	\$2.76	\$3.38	\$4.01	\$4.63	87.76	\$12.75	Rates effective																							
ctive January 1,	Low Income Discounted Discount (j) = $[(h)+(i)]$ (k) = $(h)+(i)$	+ (j)	\$28.76	\$51.25	\$66.23	\$81.23	\$96.22	\$111.21	\$186.16	\$306.10	Proposed																							
Proposed Rates effective January 1, 2021	Low Income Discount (j) = [(h)+(i)]	x30	(\$12.33)	(\$21.96)	(\$28.39)	(\$34.81)	(\$41.24)	(\$47.66)	(62.628)	(\$131.18)																								
Pro	20 0	(i)	\$15.56	\$31.11	\$41.48	\$51.85	\$62.22	\$72.59	\$124.44	\$207.40																								
	Delivery Services	(h)	\$25.53	\$42.10	\$53.14	\$64.19	\$75.24	\$86.28	\$141.51	\$229.88	-										_													•□
	Total	(g) = (e) + (f)	\$29.96	\$53.39	\$68.99	\$84.61	\$100.23	\$115.84	\$193.92	\$318.85	ovember 1, 2020	(w)	\$6.00	\$2.16	\$0.04580	\$0.00212	\$0.00002	\$0.00396	\$0.00090	\$0.00118	\$0.00073	\$0.00015	\$0.00005	\$0.00000	\$0.00931	\$0.03096	(\$0.00189)	\$0.00038	(\$0.00074)	\$0.01353	\$0.09568	(\$0.00294)	\$0.00230	\$6.00 \$0.80 \$2.16 \$0.02945 \$0.05633 \$0.01082 \$0.01197
20		(J)	\$1.20	\$2.14	\$2.76	\$3.38	\$4.01	\$4.63	87.76	\$12.75	Rates Effective November 1, 2020																							
Rates Effective November 1, 2020	Low Income Discounted Discount Total $(d) = [(b)+(c)]$ $(e) = (b)+(c)$	(p) +) \$28.76	\$51.25	\$66.23	\$81.23	\$96.22	\$111.21) \$186.16) \$306.10	≅ I																							
Rates Effective	Low Income Discount (d) = $[(b)+(c)]$	x30	(\$12.33)	(\$21.96)	(\$28.39)	(\$34.81)	(\$41.24)	(\$47.66)	(61.678)	(\$131.18)																								
	e e	(c)	\$15.56	\$31.11	\$41.48	\$51.85	\$62.22	\$72.59	\$124.44	\$207.40							tion Factor								Charge									
	Delivery Services	(p)	\$25.53	\$42.10	\$53.14	\$64.19	\$75.24	\$86.28	\$141.51	\$229.88			n **	ogram Charge		ense Charge	pense Reconcilia		Poston	ent ractor	retor	tment Factor		ry Factor	newable Energy		tor	actor		harge	Charge		Tharge	o Charge
	Monthly kWh	(a)	150	300	400	200	009	700	1,200	2,000		Č	(1) Distribution Customer Charge (2) LIHEAP Enhancement Charge	(3) Renewable Energy Growth Program Charge	(4) Distribution Charge (per kWh)	(5) Operating & Maintenance Expense Charge		(7) CapEx Factor Charge	(8) CapEx Reconciliation Factor	(9) Revenue Decouping Adjustment Factor (10) Dancion Adjustment Factor	(10) Fension Adjustment Factor (11) Storm Fund Renlenishment Factor	(12) Arrearage Management Adjustment Factor	(13) Performance Incentive Factor	(14) Low Income Discount Recovery Factor	(15) Long-term Contracting for Renewable Energy Charge (16) Net Metering Charge.	(17) Base Transmission Charge	(18) Transmission Adjustment Factor	(19) Transmission Uncollectible Factor	(20) Base Transition Charge (21) Transition Adiustment	(22) Energy Efficiency Program Charge	(23) Standard Offer Service Base Charge	4) SOS Adjustment Factor	(22) SOS Adminstrative Cost Adjustiment Factor (26) Renewable Energy Standard Charge	Line Item on Bill (27) Customer Charge (28) LiHeAP Enhancement Charge (28) LiHeAP Enhancement Charge (30) Transmission Charge (31) Distribution Energy Charge (32) Transition Charge (33) Energy Efficiency Programs (34) Renewable Energy Distribution Charge

Column (w); per Summany of Retail Delivery Service Rates, R.I.P.U.C. No. 2095 effective 101/2020, and Summany of Rates Sumdard Offer-Service tariff, R.I.P.U.C. No. 2095, effective 101/2020, and Summany of Rates Sundard Offer-Service tariff, R.I.P.U.C. No. 2096, effective 101/2020, and Summany of Rates Sundard Offer-Service tariff, R.I.P.U.C. No. 2096, effective 101/2020

The Narragansett Electric Company Calculation of Monthly Typical Bill Total Bill Impact of Proposed Rates Applicable to C-06 Rate Customers

The Narragansett Electric Company
APA National Grid
RIPUC Docket 5076
Attachmen 1-37 (1)
Base Case Year 1
Page 4 of 6

56.3% 16.9%

0.0% 0.0% 0.0%

Percentage of Customers

Total (m)

8.1% 5.0% 13.6%

Monthly by Delivery Supply (with the bilance) Delivery Supply (with the bilance) Delivery Supply (with the bilance) Delivery Supply (with the bilance) Delivery Supply (with the bilance) Delivery Supply (with the bilance) Delivery Supply (with the bilance) Delivery Supply (with the bilance) Suppl		R	Rates Effective November 1, 2020	vember 1, 2020		Propo	Proposed Rates effective January 1, 2021	e January 1, 202	1		\$ Increase (Decrease)	ecrease)		Inc	rease (Decrease)	Increase (Decrease) % of Total Bill
130 141	Monthly	Delivery	Supply	Edo	E	Delivery	Supply	Edo	E	Delivery	Supply	Edo	E	Delivery	Supply	Edo
250 2811 2513 2514 2	(a)	Services (b)	Services (c)	(d)	(e)	Services (b)	Services (c)	(d)	rotal (e)	Services (f)	Services (g)	(h)	(i)	Services (j)	Services (k)	(E)
500 501 51100 511	250	\$41.13	\$23.34	\$2.69	\$67.16	\$41.13	\$23.34	\$2.69	\$67.16	\$0.00	\$0.00	\$0.00	\$0.00	0.0%	0.0%	0.0%
1,000 512,10	200	\$68.11	\$46.67	\$4.78	\$119.56	\$68.11	\$46.67	\$4.78	\$119.56	\$0.00	\$0.00	\$0.00	\$0.00	0.0%	0.0%	0.0%
1,500 517,00 518,00 517,00 519,00 517,00 519,00 517,00 519,00 517,00 519,00 517,00 519,00 517,00 519,00 517,00 518,00 517,00 518,00 517,00 518,00 51	1,000	\$122.06	\$93.34	\$8.98	\$224.38	\$122.06	\$93.34	\$8.98	\$224.38	\$0.00	\$0.00	\$0.00	\$0.00	0.0%	0.0%	0.0%
2,000 St.2049 St.204	1,500	\$176.02	\$140.01	\$13.17	\$329.20	\$176.02	\$140.01	\$13.17	\$329.20	\$0.00	\$0.00	\$0.00	\$0.00	0.0%	0.0%	0.0%
Descriptation Customer Charge S1000 S10000 S100000 S1000000 S1000000 S1000000 S1000000 S1000000 S1000000 S1000000 S1000000 S10000000 S10000000 S10000000 S100000000 S10000000 S10000000 S10000000000	2,000	\$229.97	\$186.68	\$17.36	\$434.01	\$229.97	\$186.68	\$17.36	\$434.01	\$0.00	\$0.00	\$0.00	\$0.00	0.0%	0.0%	0.0%
100 101			Rat	es Effective Nove	mber 1, 2020		Proposed R	ates effective Jan	mary 1, 2021		ine Item on Bill					
Distribution Customer Charge \$10.00 \$10.00					(0)				(d)							
LILEAD Patherment Charge \$18.90 \$18.90 Reservable Energy Crowth Program Charge \$10.4482 \$10.04482 Darenfunion Charge (per NPh) \$10.04482 \$10.00212 \$10.00212 Operating & Maintenance Expense Charge \$10.00212 \$10.00212 \$10.00212 Operating & Maintenance Expense Charge \$10.00383 \$10.00383 \$10.00319 \$10.00319 Copies Record Charge \$10.0038 \$10.00383 \$10.00318 \$10.00318 \$10.00318 Revenue Decorphility Allastment Factor \$10.00318	(1) Distribution Customer Charge				\$10.00				\$10.00	D	ustomer Charge					
Renewable Energy Charge \$13.35 \$10.04482 Destribution Charge (pert My) \$10.04482 \$10.04482 Operating & Maintenance Expense Charge \$10.0022 \$10.00212 Operating & Maintenance Expense Charge \$10.00022 \$10.00212 Operating & Maintenance Expense Charge \$10.00022 \$10.00022 CapEx Reconciliation Factor \$10.00035 \$10.00035 \$10.00035 CapEx Reconciliation Factor \$10.00036 \$10.00035 \$10.00035 \$10.00035 Persiston Aljustraent Factor \$10.00026 \$10.00036 \$10.00036 \$10.00036 \$10.00036 Storm Fund Repleuishment Factor \$10.00036 \$10					\$0.80				\$0.80	ı	IHEAP Enhancen	ent Charge				
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Cup Ex Factor Charge \$0,000359 \$0,000359 Cup Ex Factor Charge \$0,000085 \$0,000359 Revenue Decompting Adjustment Factor \$0,00018 \$0,00018 Pension Adjustment Factor \$0,00018 \$0,00018 Soon Pland Repoin Adjustment Factor \$0,00015 \$0,000288 Soon Pland Repoin Adjustment Factor \$0,00015 \$0,000288 Soon Pland Repoin Adjustment Factor \$0,00015 \$0,00015 Long-term Contracting for Renewable Energy Charge \$0,00016 \$0,00017 Long-term Contracting for Renewable Energy Charge \$0,000266 \$0,00031 Base Transmission Charge \$0,00026 \$0,00036 \$0,00036 Base Transmission Charge \$0,00036 \$0,00036<		se Reconciliation I	Factor		\$0.00002				\$0.00002							
Cup Ex Reconclination Factor \$0.00085 \$0.0018 Revenue Decompling Adjustment Factor \$0.00118 \$0.00118 Acreantage Management Adjustment Factor \$0.00028 \$0.00028 Arrentage Management Adjustment Factor \$0.00015 \$0.00015 Arrentage Management Adjustment Factor \$0.00016 \$0.00015 Arrentage Management Adjustment Factor \$0.000176 \$0.00016 Low Income Discount Recovery Factor \$0.000176 \$0.000176 Low Income Discount Recovery Factor \$0.000176 \$0.000176 Net Meaning Charge \$0.000176 \$0.000176 Net Meaning Charge \$0.000176 \$0.000176 States Transition Charge \$0.00047 \$0.000176 Transmission Charge \$0.00047 \$0.000176 Submission Charge \$0.00043 \$0.000176 Submission Charge \$0.00043 \$0.000176 Submission Charge \$0.00043 \$0.00018 Submission Charge \$0.00043 \$0.00044 \$0.00024 Sold Satistated Transmission Charge \$0.00043 \$0.00044 \$0.00024 <td></td> <td></td> <td></td> <td></td> <td>\$0.00339</td> <td></td> <td></td> <td></td> <td>\$0.00339</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>					\$0.00339				\$0.00339							
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Pears on Adjustment Factor \$0.00073 \$0.000073 Storm Fund Replexishment Factor \$0.00055 \$0.00005 Actor area Management Adjustment Factor \$0.00005 \$0.00005 Performance Incentive Factor \$0.00005 \$0.00005 Low Income Discount Recovery Factor \$0.00076 \$0.00071 Low Income Discount Recovery Factor \$0.00076 \$0.00071 Low Ententive Factor \$0.00077 \$0.00071 New Meeting Cuttage \$0.00077 \$0.00071 Base Transmission Charge \$0.00077 \$0.00071 Base Transmission Charge \$0.00073 \$0.00071 Base Transmission Charge \$0.00073 \$0.00077 Base Transmission Uncolletable Factor \$0.00073 \$0.00077 Transmission Uncolletable Factor \$0.00073 \$0.00077 Stord Administrative Cost Adjustment Factor \$0.00073 \$0.00074 Son Administrative Cost Adjustment Factor \$0.00086 \$0.00074 Receive Base Charge \$0.00086 \$0.00074 Son Administrative Cost Adjustment Factor \$0.00086 \$0.00086		: Factor			\$0.00118				\$0.00118	Д	istribution Energy	/ Charge				
Stood Paramage Management Factor \$0,00288 \$0,00015 Arcearge Management Factor \$0,00015 \$0,00015 Performance Incentive Factor \$0,000176 \$0,00015 Long-term Contracting for Renewable Energy Charge \$0,000176 \$0,00031 New Mercing Charge \$0,000176 \$0,00031 Ase Mercing Charge \$0,000176 \$0,00031 Base Transmission Charge \$0,000470 \$0,000470 Base Transmission Uncollectible Factor \$0,000471 \$0,000471 Base Transmission Charge \$0,000471 \$0,000471 Sond Addistrated Transmission Charge \$0,000471 \$0,000471 Sond Addistrated Charge \$0,000471 \$0,000471 Sond Addistrated Service Base Charge \$0,000472 \$0,000474 Revervable Energy Standard Charge \$0,00047 \$0,00064 Son Addistrated Charge \$0,00064 \$0,00064 Distribut	(10) Pension Adjustment Factor				(\$0.00073)				(\$0.00073)							
Accorating Management Adjustment Factor \$0,00015 \$0,00015 Performance Discount Recovery Factor \$0,00005 \$0,00005 Performance Discount Recovery Factor \$0,00036 \$0,00016 Long-term Contracting for Renewable Energy Charge \$0,00036 \$0,00016 Base Transmission Churge \$0,00047 \$0,00047 Transmission Charge \$0,00047 \$0,00047 Base Transmission Charge \$0,00047 \$0,00047 Base Transmission Charge \$0,00043 \$0,00043 Base Transmission Charge \$0,00043 \$0,00043 Base Transmission Charge \$0,00043 \$0,00044 Son Adjustment Factor \$0,00044 \$0,00044 Son Adjustment Eactor \$0,00045 \$0,00044 Son Adjustment Eactor \$0,00044 \$0,00044 Son Adjustment Eactor \$0,00044 <td< td=""><td>(11) Storm Fund Replenishment Facto</td><td>or</td><td></td><td></td><td>\$0.00288</td><td></td><td></td><td></td><td>\$0.00288</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	(11) Storm Fund Replenishment Facto	or			\$0.00288				\$0.00288							
Performance Incentive Factor \$0,00005 \$0,000176 No. Horsome Discount Recovery Factor \$0,00176 \$0,00176 Long-term Contracting for Renewable Energy Charge \$0,00266 \$0,0031 Net Metering Charge \$0,0031 \$0,00310 Base Transmission Charge \$0,00477 \$0,00071 Transmission Charge \$0,00074 \$0,00074 Transmission Charge \$0,00074 \$0,00074 Transmission Charge \$0,00074 \$0,00074 Transmission Unclearly Factor \$0,00074 \$0,00074 Base Transmission Charge \$0,00074 \$0,00074 Transmission Charge \$0,00074 \$0,00074 Standery Efficiency Program Charge \$0,00074 \$0,00074 SOS Adjustment Factor \$0,00074 \$0,00074 SOS Administrative Cost Adjustment Factor \$0,00074 \$0,00074 SOS Administrative Cost Adjustment Factor \$0,00074 \$0,00074 Son Administrative Cost Adjustment Factor \$0,00074 \$0,00074 Activate on Bill \$0,00074 \$0,00074 Activation Charge <	(12) Arrearage Management Adjustm	ent Factor			\$0.00015				\$0.00015							
Low Income Discount Recovery Factor \$0.00176 \$0.00176 Long-term Contracting for Renewable Energy Charge \$0.00931 \$0.00266 And service Charge \$0.00266 \$0.00266 Base Transmission Charge \$0.00110 \$0.00311 Transmission Adjustment Factor \$0.00074 \$0.00074 Transmission Locellecthle Factor \$0.00074 \$0.00074 Transmission Uncellecthle Factor \$0.00074 \$0.00074 Transmission Uncellecthle Factor \$0.00074 \$0.00074 Transmission Uncellecthle Factor \$0.00074 \$0.00074 Standard Offer Service Base Charge \$0.001353 \$0.00074 Sandard Offer Service Base Charge \$0.001353 \$0.00024 Son Adjustment Factor \$0.00024 \$0.00024 Renewable Energy Standard Charge \$0.00024 \$0.00024 Son So Adjustment Factor \$0.00024 \$0.00024 Renewable Energy Standard Charge \$0.00064 \$0.00024 Son So Adjustment Factor \$0.00064 \$0.00024 RE Grand Programs \$0.00064 \$0.00024 Renewab	(13) Performance Incentive Factor				\$0.00005				\$0.00005							
Long-term Contracting for Renewable Energy Charge \$0.00931 \$0.00936 Net Meering Charge \$0.00266 \$0.00266 Net Meering Charge \$0.00361 \$0.00266 Transmission Charge \$0.00031 \$0.00467) Transmission Adjustment Factor \$0.000031 \$0.00074) Base Transmission Charge \$0.000074 \$0.000074) Base Transition Adjustment Factor \$0.000074 \$0.000074) Base Transmission Charge \$0.000074 \$0.000074 Sock Adjustment Factor \$0.00008 \$0.000094 Sock Adjustment Factor \$0.00094 \$0.00094 Renewable Energy Standard Charge \$0.00094 \$0.00024 Customer Charge \$0.00084 \$0.00024 Customer Charge \$0.00084 \$0.000649 Distribution Energy Charge \$0.0197 \$0.00197 <	(14) Low Income Discount Recovery	Factor			\$0.00176				\$0.00176							
Net Metring Change \$0.00266 \$0.00266 Base Transmission Change \$0.003110 \$0.03110 Base Transmission Change \$0.0031 \$0.0047 Transmission Change \$0.00031 \$0.00044 Base Transmission Change \$0.00034 \$0.00031 Base Transmission Change \$0.00034 \$0.00044 Base Transmission Change \$0.00034 \$0.00044 Base Transmission Change \$0.00034 \$0.00044 Base Transmission Change \$0.00081 \$0.00044 Scot Administrative Cost Adjustment Factor \$0.00044 \$0.00054 SOS Adjustment Factor \$0.00044 \$0.00054 SOS Adjustment Factor \$0.00044 \$0.00054 SOS Adjustment Factor \$0.00054 \$0.00054 Customer Charge \$0.00054 \$0.00054 RE Growth Pro	(15) Long-term Contracting for Renev	wable Energy Char	eg.		\$0.00931				\$0.00931	2	enewable Enerov	Distribution Ch	aroe			
Base Transmission Charge \$0.03110 \$0.03110 Transmission Charge \$0.00457 \$0.00467 Transmission Charge \$0.00074 \$0.000467 Base Transition Charge \$0.00074 \$0.00074 Transmission Charge \$0.00073 \$0.00074 Transmission Charge \$0.00083 \$0.00008 Standard Charge \$0.01353 \$0.00004 SOS Adjustment Factor \$0.001353 \$0.00024 SOS Administrative Cost Adjustment Factor \$0.00024 \$0.00024 SOS Administrative Cost Adjustment Factor \$0.0024 \$0.00264 Stocked \$0.0024 \$0.00264 \$0.00264 Customer Charge \$0.00264 \$0.00264 \$0.00264 Stocked \$0.00264 \$0.00364 \$0.00364 Transition Charge \$0.00137 \$0.00137 \$0.00137 <	(16) Net Metering Charge				\$0.00266				\$0.00266	1	Guaran aran		200			
Transmission Adjustment Factor	(17) Base Transmission Charge				\$0.03110				\$0.03110							
Transmission Uncollectible Factor \$0,00031 \$0,00074 Base Transition Charge \$0,00074 \$0,00074 Base Transition Charge \$0,00074 \$0,00074 Transition Charge \$0,00085 \$0,00074 Standard Offer Service Base Charge \$0,00084 \$0,001353 Standard Offer Service Base Charge \$0,00084 \$0,008150 Son Adjustment Factor \$0,00094 \$0,00094 SOS Adjustment Factor \$0,00094 \$0,00094 SOS Adjustment Factor \$0,00094 \$0,00094 SOS Adjustment Factor \$0,00094 \$0,00094 Ros Adjustment Factor \$0,00094 \$0,00094 SOS Adjustment Factor \$0,0024 \$0,00094 Ros Adjustment Factor \$0,00264 \$0,00264 Reversable Energy Standard Charge \$0,00264 \$0,00264 Standard Charge \$0,00264 \$0,00264 \$0,00264 Busicherion Energy Charge \$0,00137 \$0,00137 \$0,00137 Standard Charge \$0,01197 \$0,00137 \$0,00137	(18) Transmission Adjustment Factor				(\$0.00467)				(\$0.00467)	I	ransmission Char	ge				
Section Charge Sect		or			\$0.00031				\$0.00031							
Transition Adjustment (\$0,00008) (\$0,00008) Transition Adjustment \$0,01333 \$0,01333 Standard Offer Service Base Charge \$0,01333 \$0,01333 Standard Offer Service Base Charge \$0,00134 \$0,008150 SOS Adjustment Factor \$0,00024 \$0,00024 SOS Admisstrative Cost Adjustment Factor \$0,00024 \$0,00024 SOS Admisstrative Cost Adjustment Factor \$0,00024 \$0,00024 SOS Admisstrative Cost Adjustment Factor \$0,00024 \$0,00024 SOS Admisstrative Cost Adjustment Factor \$0,00024 \$0,00024 Line Renewled Energy Standard Charge \$0,00026 \$0,00026 Line Renewled Energy Standard Charge \$0,00026 \$0,00026 Line Renewled Energy Charge \$0,00026 \$0,00026 Sound Standard Charge \$0,00027 \$0,00026 Standard Charge \$0,00027 \$0,00026 Standard Charge \$0,00027 \$0,00026 Standard Charge \$0,00027 \$0,00026 Standard Charge \$0,00027 \$0,00027 Transition Charge <td< td=""><td>(20) Base Transition Charge</td><td></td><td></td><td></td><td>(\$0.00074)</td><td></td><td></td><td></td><td>(\$0.00074)</td><td>-</td><td>ransition Charge</td><td></td><td></td><td></td><td></td><td></td></td<>	(20) Base Transition Charge				(\$0.00074)				(\$0.00074)	-	ransition Charge					
Energy Efficiency Program Charge \$0.01353 \$0.01353 Standard Offer Sewice Base Charge \$0.00150 \$0.08150 SOS Adjustment Factor \$0.00024 \$0.00094 SOS Adjustment Factor \$0.00024 \$0.00094 SOS Adjustment Factor \$0.00096 \$0.00094 SOS Adjustment Factor \$0.00096 \$0.00094 Renewable Energy Standard Charge \$0.00866 \$0.00866 Line Item on Bill \$1.000 \$10.00 Customer Charge \$0.80 \$0.0866 RE Growth Program \$0.02674 \$0.02674 Distribution Energy Charge \$0.05649 \$0.05649 Sound Charge \$0.0137 \$0.0137 Search Energy Distribution Charge \$0.0197 \$0.01197					(\$0.00008)				(\$0.00008)	•	9					
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SOS Admission of Language S0,00024 S0,00024 SOS Admission of Language \$0,00026 \$0,00024 Renewable Energy Standard Charge \$0,00866 \$0,00024 Line Item on Bill \$10,00 \$0,00066 Customer Charge \$0,80 \$0,80 RE Growth Program \$3.35 \$0,00 Distribution Energy Charge \$0,005649 \$0,005649 Distribution Energy Programs \$0,005649 \$0,005649 Second Stribution Charge \$0,0197 \$0,01197 Second Stribution Charge \$0,00197 \$0,00137	(23) Standard Offer Service Base Cha	arge			\$0.08150				\$0.08150							
Second Charge Second S	(25) SOS Adminstrative Cost Adjustn	nent Factor			\$0.00224				\$0.00224	S	upply Services Er	nergy Charge				
Line Irem on Bill \$10.00 Customer Charge \$0.00 RE Growth Program \$0.02674 Transmission Charge \$0.02674 Distribution Energy Charge \$0.02649 Transition Charge \$0.00682 Transition Charge \$0.01333 Energy Efficiency Programs \$0.01333 Remain Charge \$0.00137 Remain Charge \$0.00137		ırge			\$0.00866				\$0.00866							
Customer Charge \$10,00 Customer Charge \$80.80 RE Growth Program \$3.35 Transmission Charge \$0.02674 Sound Charge \$0.05649 Transition Charge \$0.005649 Sound Charge \$0.005	Line Item on Bill															
LHEAP Enhancement Charge \$0.80	(27) Customer Charge				\$10.00				\$10.00							
Ket Growth Program	(28) LIHEAP Enhancement Charge				\$0.80				\$0.80							
Trainstration Charge	(29) RE Growth Program				\$3.35				\$3.35							
Transition Charge (\$0.00082)	(31) Distribution Energy Charge				\$0.026/4				\$0.026/4							
Energy Efficiency Programs \$0.01333 South State	(32) Transition Charge			ļ	(\$0.00082)			ļ	(\$0.00082)							
Kenewahe Energy Distribution Charge 50.011 97	(33) Energy Efficiency Programs	į			\$0.01353				\$0.01353							
	(34) Renewable Energy Distribution C	Charge			\$0.01197				\$0.01197							

Column (o): per Summary of Retail Delivery Service Rates, R.I.P.U.C. No. 2095 effective 101/2020, and Summary of Rates Standard Offer Service tariff, R.I.P.U.C. No. 2096, effective 101/2020, and Summary of Rates Standard Offer Service tariff, R.I.P.U.C. No. 2096, effective 101/2020

The Narngansert Electric Company
db'a National Grid
RIPUC Docket 5076
Attachment 1-37 (1)
Base Gase Year 1
Base Gase Year 1
Page 5 of 6

The Nurragansett Electric Company
Calculation of Monthly Typical Bill
Total Bill Impact of Proposed
Rates Applicable to G-02 Rate Customers

			R	Rates Effective November 1, 2020	ember 1, 2020		Propos	Proposed Rates effective January 1, 202	January 1, 2021			\$ Increase (Decrease	ecrease)		Д	Increase (Decrease) % of Total Bill	% of Total Bill	
	Monthly Power	1	Delivery	Supply			Delivery	Supply			Delivery	Supply			Delivery	Supply		
kW	Hours Use	kWh	Services (b)	Services (c)	GET (d)	Total (e)	Services (b)	Services (c)	GET (d)	Total (e)	Services (f)	Services (g)	GET (h)	Total (i)	Services (j)	Services (k)	GET (I)	Total (m)
20	200	4,000	\$526.47	\$373.36	\$37.49	\$937.32	\$526.47	\$373.36	\$37.49	\$937.32	\$0.00	\$0.00	\$0.00	80.00	0.0%	%0:0	%0'0	
20	200	10,000	\$1,166.85	\$933.40	\$87.51	\$2,187.76	\$1,166.85	\$933.40	\$87.51	\$2,187.76	\$0.00	\$0.00	\$0.00	\$0.00	0.0%	0.0%	%0.0	
100	200	20,000	\$2,234.15	\$1,866.80	\$170.87	\$4,271.82	\$2,234.15	\$1,866.80	\$170.87	\$4,271.82	80.00	80.00	80.00	80.00	0.0%	0.0%	0.0%	
150	200	30,000	\$3,301.45	\$2,800.20	\$254.24	\$6,355.89	\$3,301.45	\$2,800.20	\$254.24	\$6,355.89	\$0.00	\$0.00	\$0.00	80.00	0.0%	0.0%	%0.0	
20 70	300	000,00	\$61,755	\$260.04	S11644	\$1,226.64	\$617.55	\$1 400 10	\$116.44	\$1,226.64	\$0.00 \$0.00	20.00	00.00 S0.00	00.00 SO 00	0.0%	%0.0 %0.0	%0.0	
8 2	300	30.000	\$2.689.45	\$2.800.20	\$228.74	\$5.718.39	\$2.689.45	\$2.800.20		\$5.718.39	00'08	80.00	80.00	00'08	%0:0	%0.0	%000	
150	300	45,000	\$3,984.40	\$4,200.30	\$341.03	\$8,525.73	\$3,984.40	\$4,200.30		\$8,525.73	80.00	80.00	80.00	80.00	0.0%	0.0%	0.0%	
20	400	8,000	\$708.59	\$746.72	\$60.64	\$1,515.95	\$708.59	\$746.72	\$60.64	\$1,515.95	\$0.00	\$0.00	\$0.00	\$0.00	0.0%	90.0	%0.0	
20	400	20,000	\$1,622.15	\$1,866.80	\$145.37	\$3,634.32	\$1,622.15	\$1,866.80	\$145.37	\$3,634.32	\$0.00	\$0.00	\$0.00	80.00	0.0%	0.0%	%0'0	
100	400	40,000	\$3,144.75	\$3,733.60	\$286.60	\$7,164.95	\$3,144.75	\$3,733.60		\$7,164.95	\$0.00	\$0.00	\$0.00	80.00	90.0	%0.0	%0'0	
150	400	000'09	\$4,667.35	\$5,600.40	\$427.82	\$10,695.57	\$4,667.35	\$5,600.40		\$10,695.57	\$0.00	\$0.00	\$0.00	80.00	%0.0	0.0%	%0.0	
20	200	10,000	\$799.65	\$933.40	\$72.21	\$1,805.26	\$799.65	\$933.40		\$1,805.26	\$0.00	\$0.00	\$0.00	\$0.00	0.0%	0.0%	%0.0	
20	200	25,000	\$1,849.80	\$2,333.50	\$174.30	\$4,357.60	\$1,849.80	\$2,333.50		\$4,357.60	\$0.00	\$0.00	\$0.00	\$0.00	0.0%	0.0%	%0.0	
100	200	25,000	\$3,600.05	\$4,667.00	\$344.46	\$8,611.51	\$3,600.05	\$4,667.00	\$344.46	58,611.51	80.00	80.00	80.00	80.00	0.0%	90.0	%0.0 0.0%	
20	009	12,000	\$890.71	\$1.120.08	\$83.78	\$2.094.57	\$890.71	\$1.120.08		\$2,094.57	80.00	\$0.00	80.00	80.00	0.0%	0.0%	0.0%	
20	009	30,000	\$2,077.45	\$2,800.20	\$203.24	82,080.89	\$2,077.45	\$2,800.20	\$203.24	\$5,080.89	80.00	80.00	80.00	80.00	960.0	0.0%	0.0%	
100	009	000'09	\$4,055.35	\$5,600.40	\$402.32	\$10,058.07	\$4,055.35	\$5,600.40	\$402.32	\$10,058.07	\$0.00	80.00	80.00	\$0.00	0.0%	0.0%	%0.0	
OCI	000	000,00	30,033.23	30,400.00	3001.41	913,033,20	30,033.23	36,400.00		97.550,518	30.00	30.00	\$0.00	30,00	0.0%	0.0.0	0.07%	
				Rate	Rates Effective November 1, 2020 (o)	(o)		Proposed Ra	Proposed Rates effective January 1, 2021 (p)	uary 1, 2021 (p)	i	Line Item on Bill						
	istomer Charge					\$145.00				\$145.00	Ö	Customer Charge						
(2) LIHEAP Enhan (3) Renewable Ene	LIHEAP Enhancement Charge Renewable Energy Growth Program Charge	n Charge				\$0.80				\$0.80	I 2	LIHEAP Enhancem RE Growth Program	nent Charge n					
	Base Distribution Demand Charge (per kW > 10kW)	(per kW > 10kW	(3)			\$6.90				\$6.90	i	4	5					
	CapEx Factor Demand Charge (per kW > 10kW)	kW > 10kW)				\$0.97				\$0.97	ימ	Distribution Demand Charge	nd Charge					
	Distribution Charge (per kWh)	i				\$0.00476				\$0.00476								
	Operating & Maintenance Expense Charge Operating & Maintenance Expense Reconciliation Factor	Charge Reconciliation b	Factor			\$0.00169				\$0.00169								
	diation Factor	Neconcination	T de l'Oi			\$0.00064				\$0.0005								
	Revenue Decoupling Adjustment Factor	actor				\$0.00118				\$0.00118	Ď	Distribution Energy Charge	y Charge					
(11) Pension Adjustment Factor (12) Storm Fund Replenishment	Pension Adjustment Factor Storm Fund Replenishment Factor					\$0.00288				(\$0.000/3)								
	Arrearage Management Adjustment Factor	t Factor				\$0.00015				\$0.00015								
(14) Performance Incentive Factor (15) Low Income Discount Recove	Performance Incentive Factor Low Income Discount Recovery Factor	ctor				\$0.00005				\$0.00005								
	Long-term Contracting for Renewable Energy Charge	ble Energy Char	.ge			\$0.00931				\$0.00931	Re	Renewable Energy Distribution Charge	Distribution Cha	rrge				
(18) Transmission Demand Charge	Jemand Charge					\$4.37				\$4.37	Tra	Transmission Demand Charge	nd Charge					
(19) Base Transmission Charge	sion Charge					\$0.01214				\$0.01214	Ė							
(21) Transmission U	Transmission Uncollectible Factor					\$0.00030				\$0.00030	=	ansinission Adju	SUINCILL					
(22) Base Transition Charge (23) Transition Adjustment	n Charge					(\$0.00074)				(\$0.00074)	T.	Transition Charge						
(24) Energy Efficien	Energy Efficiency Program Charge					\$0.01353				\$0.01353	En	Energy Efficiency Programs	rograms					
(25) Standard Offer Service I	Standard Offer Service Base Charge	9				\$0.08150				\$0.08150								
(27) SOS Adminstra	SOS Adminstrative Cost Adjustment Factor	nt Factor				\$0.00224				\$0.0024	S	Supply Services Energy Charge	ergy Charge					
(28) Renewable Enc	Renewable Energy Standard Charge	9				\$0.00866				\$0.00866								
Line Item on Bill	= 1					6146.00				00 3113								
	Customer Charge LIHEAP Enhancement Charge					\$145.00				\$145.00								
	gram					\$32.45				\$32.45								
(32) Iransmission Adjustment (33) Distribution Energy Charge	Adjustment sergy Charge					\$0.00845				\$0.00845								
(34) Distribution Demand Charge	emand Charge					\$7.87				\$7.87								
(35) Transmission Demand Charge (34) Transition Charge	Demand Charge					\$4.37				\$4.37								
(35) Energy Efficiency Programs	ncy Programs				1	\$0.01353			L	\$0.01353								
	Renewable Energy Distribution Charge	arge				\$0.01197			J	\$0.01197								
(37) Supply Services	Supply Services Energy Charge					\$0.09334				\$0.09334								

Column (0); per Summary of Retail Delivery Service Ranes, R.I.P.U.C. No. 2095 effective 101/2020, and Summary of Ranes Sundard Offer Service tariff, R.I.P.U.C. No. 2096, effective 101/2020, and Summary of Ranes Sundard Offer Service tariff, R.I.P.U.C. No. 2096, effective 101/2020, and Summary of Ranes Sundard Offer Service tariff, R.I.P.U.C. No. 2096, effective 101/2020,

The Narraganset Bectric Company
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Base Case Year I
Page 6 of 6

| The Amplement Legistry Company | Calculation of Monthly Typical Bit | Proposed |
| Total Bill Impact of Proposed |
| Rate Applicable to G-23 Rate Constructions |
Rates Effective November 1, 2020	Delivery Supply																																																
Supply	Delivery Supply	Calculation	Calculation																																														
Supply	Calculation	Calculation	Calculation																																														
Supply	Calculation	Calculation	Calculation																																														
Supply	Calculation	Calculation	Calculation																																														
Supply	Calculation	Calculation	Calculation																																														
Supply	Calculation	Calculation	Calculation																																														
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Supply	Calculation	Calculation	Calculation																																														
Supply	Calculation	Calculation	Calculation																																														
Supply	Calculation	Calculation	Calculation	Calculation																																													
Supply	Calculation	Calculation	Calculation	Calculation	Calculation	Calculation	Calculation	Calculation	Calculation	Calculation	Calculation	Calculation	Calculation	Calculation	Calculation	Calculation	Calculation	Calculation	Calculation	Calculation	Calculation	Calculation	Calculation	Calculation	Calculation	Calculation	Calculation	Calculation	Calculation	Calculation	Calculation	Calculation	Calculation	Calculation	Calculation	Calculation	Calculation	Calculation	Calculation	Calculation	Calculation	Calculation	Calculation	Calculation	Calculation	Calculation	Calculation	Calculation	Calculation

				Potos Effective N	Pates Effective November 1 2020		Den	200 Language officering Language 1 200	10 Tomorno I M	10		\$ Invisor	Try mose (December)		Increase (Decrease) % of Total Bil	Dormon	% of Tot	Rill
	Monthly Power		Delivery	Supply			Delivery	Supply			Delivery				Delivery Supply	upply		
ΚW	Hours Use (a)	kWh	Services (b)	Services (c)	GET (d)	Total (e)	Services (b)	Services (c)	GET (d)	Total (e)	Services (f)	Services (g)	₽ €	Total ©	Services Se (i)	arvices (k)	∃ ≘	Total (m)
200	200	40,000	\$4,172.35	\$2,951.60	\$296.83	\$7,420.78	\$4,172.35	\$2,951.60	\$296.83	\$7,420.78	\$0.00	\$0.00	\$0.00	\$0.00	%000	%0.0	0.0%	%0.0
750	200	150,000	\$15,316.45	\$11,068.50	\$1,099.37	\$27,484.32	\$15,316.45	\$11,068.50	\$1,099.37	\$27,484.32	\$0.00	\$0.00	\$0.00	\$0.00	0.0%	0.0%	0.0%	0.0%
1,000	200	200,000	\$20,381.95	\$14,758.00	\$1,464.16	\$36,604.11	\$20,381.95	\$14,758.00	\$1,464.16	\$36,604.11	\$0.00	\$0.00	\$0.00	\$0.00	0.0%	0.0%	0.0%	0.0%
1,500	200	300,000	\$30,512.95	\$22,137.00	\$2,193.75	\$54,843.70	\$30,512.95	\$22,137.00	\$2,193.75	\$54,843.70	\$0.00	\$0.00	\$0.00	\$0.00	9,00	90.0	0.0%	0.0%
2,500	200	200,000	\$50,774.95	\$36,895.00	53,652.91	\$91,322.86	\$50,774.95	\$36,895,00	53,652.91	\$91,322.86	\$0.00	20.00	\$0.00	30.00	9000	0.0%	0.0%	0.0%
2,000	200	000'000'1	\$101,429.95	\$73,790.00	\$7,300.83	\$182,520.78	\$101,429.95	\$73,790.00	\$7,300.83	\$182,520.78	20.00	\$0.00	30.00	30.00	800	8000	8.00 0.03	0.0%
0057	200	000'000'	\$152,084.95	\$110,685.00	\$10,948.75	\$273,718.70	\$152,084.95	\$110,685.00	\$10,948.75	\$273,718.70	30.00	20.00	30.00	20.00	0.0%	80.0	0.03	0.0%
00000	200	7,000,000	\$202,739.95	\$147,580.00	\$14,390.07	20016,910.02	\$202,739.93	\$147,380,00	\$14,396.67	\$304,910.02 error roe re	90.00	2000	30.00	20.00	800	800	0.0%	0.0%
20,000	200	4,000,000	\$403,339.93	\$293,100.00	\$29,166.33	\$129,706.26	3403,339.93	\$293,180,00	\$29,100.33	\$129,106.26	30.00	20.00	90.00	20.00	0.070	0.000	0.070	0.070
200	300	000009	35,127.55	04,427.40	\$398.12	10.559,95	35,127.55	\$4,427.40	3398.12	59,953.07	30.00	30.00	30.00	30.00	8000	0.0%	0.036	0.0%
06/	300	225,000	\$18,898.45	\$16,602.75	\$1,479.22	236,980.42	\$18,898.45	\$10,002.75	\$1,479.22	236,980.42	30.00	20.00	30.00	20.00	0.0%	0.0%	0.0%	0.0%
1,000	300	300,000	\$25,157.95	\$22,137.00	\$1,970.62	\$49,265.57	\$25,157.95	\$22,137.00	\$1,970.62	\$49,265.57	\$0.00	20.00	\$0.00	\$0.00	90.0	0.0%	0.0%	90.0
1,500	300	450,000	\$37,676.95	\$33,205.50	\$2,953.44	\$73,835.89	\$37,676.95	\$33,205.50	\$2,953.44	\$73,835.89	\$0.00	\$0.00	\$0.00	\$0.00	9500	0.0%	0.0%	0.0%
2,500	300	750,000	\$62,714.95	\$55,342.50	\$4,919.06	\$122,976.51	\$62,714.95	\$55,342.50	\$4,919.06	\$122,976.51	\$0.00	\$0.00	\$0.00	\$0.00	0.0%	0.0%	0.0%	0.0%
2,000	300	1,500,000	\$125,309.95	\$110,685.00	\$9,833.12	\$245,828.07	\$125,309.95	\$110,685.00	\$9,833.12	\$245,828.07	\$0.00	\$0.00	\$0.00	\$0.00	%0.0	90.0	0.0%	0.0%
7,500	300	2,250,000	\$187,904.95	\$166,027.50	\$14,747.19	\$368,679.64	\$187,904.95	\$166,027.50	\$14,747.19	\$368,679.64	\$0.00	\$0.00	\$0.00	\$0.00	%0.0	%0.0	0.0%	0.0%
10,000	300	3,000,000	\$250,499.95	\$221,370.00	\$19,661.25	\$491,531.20	\$250,499.95	\$221,370.00	\$19,661.25	\$491,531.20	\$0.00	\$0.00	\$0.00	\$0.00	%0.0	90.0	0.0%	0.0%
20,000	300	6,000,000	\$500,879.95	\$442,740.00	\$39,317.50	\$982,937.45	\$500,879.95	\$442,740.00	\$39,317.50	\$982,937.45	\$0.00	\$0.00	\$0.00	\$0.00	%0.0	9,00	0.0%	0.0%
200	400	80,000	\$6,082.75	\$5,903.20	\$499.41	\$12,485.36	\$6,082.75	\$5,903.20	\$499.41	\$12,485.36	\$0.00	\$0.00	\$0.00	\$0.00	%0.0	90.0	0.0%	%0.0
750	400	300,000	\$22,480.45	\$22,137.00	\$1,859.06	\$46,476.51	\$22,480.45	\$22,137.00	\$1,859.06	\$46,476.51	\$0.00	\$0.00	\$0.00	\$0.00	0.0%	950.0	0.0%	0.0%
1,000	400	400,000	\$29,933.95	\$29,516.00	\$2,477.08	\$61,927.03	\$29,933.95	\$29,516.00	\$2,477.08	\$61,927.03	\$0.00	\$0.00	\$0.00	\$0.00	9500	950.0	0.0%	0.0%
1,500	400	000'009	\$44,840.95	\$44,274.00	\$3,713.12	\$92,828.07	\$44,840.95	\$44,274.00	\$3,713.12	\$92,828.07	\$0.00	\$0.00	\$0.00	\$0.00	90.0	0.0%	0.0%	0.0%
2,500	400	1,000,000	\$74,654.95	\$73,790.00	\$6,185.21	\$154,630.16	\$74,654.95	\$73,790.00	\$6,185.21	\$154,630.16	\$0.00	\$0.00	\$0.00	\$0.00	%0.0	0.0%	0.0%	0.0%
5,000	400	2,000,000	\$149,189.95	\$147,580.00	\$12,365.42	\$309,135.37	\$149,189.95	\$147,580.00	\$12,365.42	\$309,135.37	\$0.00	\$0.00	\$0.00	\$0.00	%0.0	90.0	0.0%	0.0%
7,500	400	3,000,000	\$223,724.95	\$221,370.00	\$18,545.62	\$463,640.57	\$223,724.95	\$221,370.00	\$18,545.62	\$463,640.57	\$0.00	\$0.00	\$0.00	\$0.00	%0.0	950'0	0.0%	0.0%
10,000	400	4,000,000	\$298,259.95	\$295,160.00	\$24,725.83	\$618,145.78	\$298,259.95	\$295,160.00	\$24,725.83	\$618,145.78	\$0.00	\$0.00	\$0.00	\$0.00	%0.0	9000	0.0%	0.0%
20,000	400	8,000,000	\$596,399.95	\$590,320.00	\$49,446.67	\$1,236,166.62	\$596,399.95	\$590,320,00	\$49,446.67	\$1,236,166.62	\$0.00	\$0.00	\$0.00	\$0.00	0.0%	90.0	0.0%	0.0%
200	200	100,000	\$7,037.95	\$7,379.00	\$600.71	\$15,017.66	\$7,037.95	\$7,379.00	\$600.71	\$15,017.66	\$0.00	\$0.00	\$0.00	\$0.00	%000	0.0%	0.0%	%00
750	200	375,000	\$26,062.45	\$27,671.25	\$2,238.90	\$55,972.60	\$26,062.45	\$27,671.25	\$2,238.90	\$55,972.60	\$0.00	\$0.00	\$0.00	\$0.00	9500	90.0	0.0%	0.0%
1,000	200	200,000	\$34,709.95	\$36,895.00	\$2,983.54	\$74,588.49	\$34,709.95	\$36,895.00	\$2,983.54	\$74,588.49	\$0.00	\$0.00	\$0.00	\$0.00	0.0%	0.0%	0.0%	0.0%
1,500	200	750,000	\$52,004.95	\$55,342.50	\$4,472.81	\$111,820.26	\$52,004.95	\$55,342.50	\$4,472.81	\$111,820.26	\$0.00	\$0.00	\$0.00	\$0.00	9500	950.0	0.0%	0.0%
2,500	200	1,250,000		\$92,237.50	\$7,451.35	\$186,283.80	\$86,594.95	\$92,237.50	\$7,451.35	\$186,283.80	\$0.00	\$0.00	\$0.00	\$0.00	%0.0	0.0%	0.0%	0.0%
2,000	200	2,500,000		\$184,475.00	\$14,897.71	\$372,442.66	\$173,069.95	\$184,475.00	\$14,897.71	\$372,442.66	\$0.00	\$0.00	\$0.00	\$0.00	%0.0	9,00	0.0%	0.0%
7,500	200	3,750,000	\$259,544.95	\$276,712.50	\$22,344.06	\$558,601.51	\$259,544.95	\$276,712.50	\$22,344.06	\$558,601.51	\$0.00	\$0.00	\$0.00	\$0.00	%0.0	900	0.0%	0.0%
10,000	200	5,000,000	\$346,019.95	\$368,950.00	\$29,790.42	\$744,760.37	\$346,019.95	\$368,950.00	\$29,790.42	\$744,760.37	\$0.00	\$0.00	\$0.00	\$0.00	%0.0	9,00	0.0%	0.0%
20,000	200	10,000,000	\$691,919.95	\$737,900.00	\$59,575.84	\$1,489,395.79	\$691,919.95	\$737,900,00	\$59,575.84	\$1,489,395.79	\$0.00	\$0.00	\$0.00	\$0.00	0.0%	90.0	0.0%	0.0%
200	009	120,000	\$7,993.15	\$8,854.80	\$702.00	\$17,549.95	\$7,993.15	\$8,854.80	\$702.00	\$17,549.95	\$0.00	\$0.00	\$0.00	\$0.00	0.0%	0.0%	0.0%	%0.0
750	009	450,000	\$29,644.45	\$33,205.50	\$2,618.75	\$65,468.70	\$29,644.45	\$33,205.50	\$2,618.75	\$65,468.70	\$0.00	\$0.00	\$0.00	\$0.00	9500	0.0%	0.0%	0.0%
1,000	009	000'009	\$39,485.95	\$44,274.00	\$3,490.00	\$87,249.95	\$39,485.95	\$44,274.00	\$3,490.00	\$87,249.95	\$0.00	\$0.00	\$0.00	\$0.00	0.0%	0.0%	0.0%	0.0%
1,500	009	000'006	\$59,168.95	\$66,411.00	\$5,232.50	\$130,812.45	\$59,168.95	\$66,411.00	\$5,232.50	\$130,812.45	\$0.00	\$0.00	\$0.00	\$0.00	9500	0.0%	0.0%	0.0%
2,500	009	1,500,000	\$98,534.95	\$110,685.00	\$8,717.50	\$217,937.45	\$98,534.95	\$110,685.00	\$8,717.50	\$217,937.45	\$0.00	\$0.00	\$0.00	\$0.00	%0.0	0.0%	0.0%	0.0%
5,000	009	3,000,000	\$196,949.95	\$221,370.00	\$17,430.00	\$435,749.95	\$196,949.95	\$221,370.00	\$17,430.00	\$435,749.95	\$0.00	\$0.00	\$0.00	\$0.00	%0.0	900	0.0%	0.0%
7,500	009	4,500,000	\$295,364.95	\$332,055.00	\$26,142.50	\$653,562.45	\$295,364.95	\$332,055.00	\$26,142.50	\$653,562.45	\$0.00	\$0.00	\$0.00	\$0.00	%00	9000	0.0%	0.0%
10,000	009	000'000'9	\$393,779.95	\$442,740.00	\$34,855.00	\$871,374.95	\$393,779.95	\$442,740.00	\$34,855.00	\$871,374.95	\$0.00	\$0.00	\$0.00	\$0.00	%0.0	900	0.0%	0.0%
20,000	009	12,000,000	\$787,439.95	\$885,480.00	\$69,705.00	\$1,742,624.95	\$787,439.95	\$885,480.00	\$69,705.00	\$1,742,624.95	\$0.00	\$0.00	\$0.00	\$0.00	0.0%	9000	0.0%	0.0%
					Description P. Continue N	Mornandon 1 2020		December	d Dates a Gastin	Tomore 1 2001		Librar Tanna con Dill	III ao					

(1) Distribution Customer Charge			
Distribution Customer Charge			
TIMEAD Enhancement Chemic	\$1,100.00	\$1,100.00	Customer Charge
LITERAL DIMINISTRESS CHARGE	\$0.80	\$0.80	LIHEAP Enhancement Charge
Renewable Energy Growth Program Charge	\$267.15	\$267.15	RE Growth Program
(4) Rase Distribution Demand Charge (nor kW > 200kW)	0.53	0: 53	
(5) Car Fe Factor Demand Charac (rec VW > 2001kW)	7605	76.05	Distribution Demand Charge
(6) Distribution Charge (per kWh)	05F00'08	0EF00C0S	
(2) Operating & Mujutonance Expense Charge	98000 05	98000 US	
(8) Operating & Maintenance Expense Reconciliation Factor	C0000 0S	20000 OS	
Can Ex Reconciliation Factor	SO 0 0 0 3 3	\$0,00033	
(10) Revenue Decompling Adjustment Factor	80.00118	8000018	
11) Pension Adiustment Factor	(\$0000073)	(\$0,00073)	Distribution Energy Charge
12) Storm Fund Replenishment Factor	\$0000288	\$0.00288	
13) Arrearage Management Adjustment Factor	\$0,00015	\$0,00015	
14) Performance Incentive Factor	\$000000	\$0.00005	
15) Low Income Discount Recovery Factor	80.00176	80.00176	
16) Long-term Contracting for Renewable Energy Charge	\$0,00931	\$0.00931	4
17) Net Metering Charge	\$0.00266	\$0.00266	Renewable Energy Distribution
18) Transmission Demand Charge	74.32	\$4.47	Transmission Denand Charge
19) Base Transmission Charge	\$0.01264	\$0.01264	
20) Transmission Adjustment Factor	(\$0.00070)	(\$0.00070)	Transmission Adjustment
21) Transmission Uncollectible Factor	\$000034	\$0,00034	
(22) Base Transition Charge	(\$0,00074)	(\$0.00074)	3
23) Transition Adjustment	(\$000008)	(\$000008)	Iransidon Charge
24) Energy Efficiency Program Charge	\$0.01353	\$0.01353	Energy Efficiency Programs
25) Standard Offer Service Base Charge	\$0.05946	\$0,05946	
26) SOS Adjustment Factor	\$000381	\$0.00381	
(27) SOS Administrative Cost Adjustment Factor	\$0,00186	\$0.00186	Supply Services Energy Charg
(28) Renewable Energy Standard Charge	\$0.00866	9980008	
Line Item on Bill			
29) Customer Charge	S1.100.00	SI:100:00	
20) THEAD Enhancement Cherns	08 05	08 05	
20) LITEAR EMBRORIEM CHIIGO	20.00	20.30	
) RE Grown Program	CI./026	\$207.12 \$207.1338	
.) Transmission Adjustment	8771076	8771008	
(33) Distribution Energy Charge	\$0.01080	\$0.01080	
(34) Distribution Demand Charge	\$6.24	\$6.24	
35) Transmission Demand Charge	4.3	\$4.47	
34) Transition Charge	(\$0.00082)	(\$0.00082)	
35) Energy Efficiency Programs	\$0.01353	\$0.01353	
(36) Renewable Energy Distribution Charge	\$0.01197	20.01197	
Supply Services Energy Charge	\$0.07379	\$0.07379	

The Narragansett Electric Company Calculation of Monthly Typical Bill Total Bill Impact of Proposed Rates Applicable to A-16 Rate Customers

The Narragansett Electric Company
db/a National Grid
RPUCI Docket 5076
Attachment 1-37 (2)
Base Case Year 2
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Secretary Supply Secretary S		Pro	posed Rates effer	Proposed Rates effective January 1, 202	,021	Proi	Proposed Rates effective January 1, 2022	ive January 1, 2	3022		\$ Increase	\$ Increase (Decrease)			Increase (Decrease) % of Total Bill	9 % of Total Bill		Percentage
1.	Monthly kWh (a)		Supply Services (c)	GET (d)	Total $(c) = (a) + (b) + (c)$		Supply Services (g)	GET (h)	Total $i) = (f) + (g) + (h)$			_	Total $(j) + (k) + (l)$		Supply Services $(o) = (g) / (e)$	GET (p) = (h) / (e) (q	Total () = (m) / (e)	of Customers
1. 1. 1. 1. 1. 1. 1. 1.	150	\$25.79	\$15.56		\$43.07	\$26.53	\$15.56		\$43.84				\$0.77	1.7%	-o	.e	1.8%	30.1%
1	300	\$42.63	\$31.11	\$3.07	\$76.81	\$44.10	\$31.11	\$3.13	\$78.34	\$1.47	\$0.00	\$0.06	\$1.53	1.9%	%0:0	0.1%	2.0%	12.9%
Section Sect	400	\$53.85	\$41.48	\$3.97	\$99.30	\$55.81	\$41.48	\$4.05	\$101.34	\$1.96	\$0.00	\$0.08	\$2.04	2.0%	%0.0	0.1%	2.1%	11.6%
State Stat	200	\$65.07	\$51.85	\$4.87	\$121.79	\$67.52	\$51.85	\$4.97	\$124.34	\$2.45	\$0.00	\$0.10	\$2.55	2.0%	0.0%	0.1%	2.1%	89.6
14.0 14.0	009	\$76.29	\$62.22	\$5.77	\$144.28	\$79.23	\$62.22	\$5.89	\$147.34	\$2.94	\$0.00	\$0.12	\$3.06	2.0%	0.0%	0.1%	2.1%	7.7%
State Stitut St	700	\$87.51	\$72.59	86.67	\$166.77	\$90.94	\$72.59	\$6.81	\$170.34	\$3.43	\$0.00	\$0.14	\$3.57	2.1%	%0.0	0.1%	2.1%	19.0%
Proposed State of State St	1,200	\$143.62	\$124.44	\$11.17	\$279.23	\$149.50	\$124.44	\$11.41	\$285.35	\$5.88	\$0.00	\$0.24	\$6.12	2.1%	%0.0	0.1%	2.2%	6.8%
Proposed Rates effective January 1, 2021 Proposed Rates effective January 1, 2022 56,00	2,000	\$233.40	\$207.40	\$18.37	\$459.17	\$243.20	\$207.40	\$18.78	\$469.38	\$9.80	\$0.00	\$0.41	\$10.21	2.1%	0.0%	0.1%	2.2%	2.3%
Si			Propo	sed Rates effectiv	ve January 1, 2021		Propos	ed Rates effectiv	ve January 1, 2022	ı	ine Item on Bill							
\$6.00 \$6.00 \$6.00 \$6.00 \$6.00 \$6.00 \$1.00			•						Ξ									
8.2.16 8.0.0212 8.0.0212 8.0.00212 8.0.00212 8.0.00212 8.0.002036 8.0.000396 8.0.000718 8.0.000718 8.0.000718 8.0.000718 8.0.000718 8.0.000718 8.0.000728 8.0.00073 8.0.00073 8.0.00073 8.0.00074 8.0.00074 8.0.00074 8.0.00078 8.	Distribution Customer Charge 1 IHFAP Enhancement Charge				\$6.00				\$6.00	o	Sustomer Charge IHF AP Enhancer	ment Charge						
Distribution Change (per I Wh) \$0.04580 \$0.04580 Operating & Maintenance Expense Change \$0.00021 \$0.00021 Operating & Maintenance Expense Change \$0.00002 \$0.00002 Capte Recorn Change \$0.00009 \$0.00036 Capte Recorn Change \$0.00018 \$0.00018 Peacine Decopility Adjustment Factor \$0.00018 \$0.00018 Peacine Decopility Adjustment Factor \$0.00018 \$0.00018 Storen Fluid Replicational Factor \$0.00016 \$0.00018 Performance Decopility Adjustment Factor \$0.00016 \$0.00018 Arreange Management Adjustment Factor \$0.00016 \$0.00017 Actor Hand Replicational Procure \$0.00016 \$0.00017 Near Transition Change \$0.00016 \$0.00017 Near Transition Change \$0.000189 \$0.00018 Near Transition Change \$0.000189 \$0.00018 Transition Change \$0.000189 \$0.00018 Sook Adjustment Factor \$0.000189 \$0.00018 Sook Adjustment Factor \$0.00018 \$0.00024 Sook Adjustment Facto	Renewable Energy Growth Prog	ram Charge			\$2.16				\$2.16	1 22	E Growth Progra	in cine						
S0,00212 S0,00012 S0,00002 S0,00002 S0,00002 S0,00002 S0,00002 S0,00003 S0,00003 S0,00018	Distribution Charge (per kWh)				\$0.04580				\$0.04580									
S0.00002 S0.00002 S0.00002 S0.000002 S0.000002 S0.000000 S0.000000 S0.000000 S0.000118 S0.000118 S0.000118 S0.000138 S0.000138 S0.00013 S0.000158 S0.000015 S0.0000015 S0.0000015 S0.0000015 S0.00000015 S0.0000000000000000000000000000000000	Operating & Maintenance Exper	nse Charge			\$0.00212				\$0.00212									
\$50,00396 \$50,00396 \$50,00396 \$50,00396 \$50,000396 \$50,000396 \$50,000396 \$50,000388 \$50,000188 \$50,000188 \$50,000188 \$50,000188 \$50,000188 \$50,000188 \$50,000031 \$50,000318 \$50,000318 \$50,00038 \$50,00038 \$50,00038 \$50,00038 \$50,00038 \$50,00038 \$50,00038 \$50,00038 \$50,00038 \$50,00038 \$50,00038 \$50,00038 \$50,00038 \$50,00038 \$50,00038 \$50,00038 \$50,00039 \$50	Operating & Maintenance Exper	nse Reconciliation .	Factor		\$0.00002				\$0.00002									
## S0.00038 ## S0.00073 ## S0.00074 ## S0.00077 ## S0.00070 ## S0.00077 ## S0.00077 ## S0.00070 ## S0	CapEx Factor Charge				\$0.00396				\$0.00396									
## SOURCE SOURCE SOURCE ## SOURCE SOURCE SOURCE ## SOURCE SOURCE SOURCE ## SOURCE SOURCE SOURCE ## SOURCE SOURCE SOURCE ## SOURCE SOURCE SOURCE ## SOURCE SOURCE SOURCE ## SOURCE SOURCE ## SOURCE SOURCE ## SOURCE SOURCE ## SOURCE SOURCE ## SOURCE SOURCE ## SOURCE SOURCE ## SOURCE SOURCE ## SOURCE SOURCE ## SOURCE SOURCE ## SOURCE SOURCE ## SOURCE ## SOURCE SOURCE ## SOURCE	CapEx Reconciliation Factor				\$0.00090				\$0.00090	Ĺ		Ę						
Particular Sources Sou	Revenue Decoupling Adjustmen	it Factor			\$0.00118				\$0.00118	1	ASTRUMENTON ENERG	zy Cnarge						
S0,00015 S0,00015 S0,00015	Storm Find Replenishment Fact	or			\$0.002.88				\$0.00288									
S0,00005 S0,00005 S0,000176 S0,000176 S0,000176 S0,000176 S0,000176 S0,000176 S0,000176 S0,000176 S0,000176 S0,000189) S0,000089 S0,00	Arrearage Management Adjustm	ent Factor			\$0.00015				\$0.00015									
S0.00176 S0.00176 S0.00176	Performance Incentive Factor				\$0.00005				\$0.00005									
vable Energy Charge \$0.00931 \$0.000931 vable Energy Charge \$0.00266 \$0.00266 \$0.00266 \$0.00308 \$0.03006 \$0.00038 \$0.00038 \$0.00038 \$0.00038 \$0.00038 \$0.00038 \$0.00038 \$0.00038 \$0.00038 \$0.00039 \$0.00038 \$0.00038 \$0.00030 \$0.00039 \$0.00039 \$0.0030 \$0.0034 \$0.0034 \$0.0024 \$0.0024 \$0.0024 \$0.0086 \$0.0086 \$0.0086 \$0.008 \$0.008 \$0.0086 \$0.008 \$0.008 \$0.0086 \$0.008 \$0.008 \$0.0086 \$0.008 \$0.008 \$0.0086 \$0.008 \$0.008 \$0.008 \$0.008 \$0.008 \$0.008 \$0.008 \$0.008 \$0.008 \$0.008 \$0.008 \$0.008 \$0.008 \$0.008 \$0.008 \$0.008 \$0.008 \$0.008 \$0.008 \$0.0	Low Income Discount Recovery	Factor			\$0.00176				\$0.00176									
S0,00266 S0,00266 S0,00266	Long-term Contracting for Rene	wable Energy Char	ge		\$0.00931				\$0.00931	~	enewable Energy	· Distribution Ch.	arge					
Base Transmission Charge \$0,03096 \$0,03096 Transmission Charge \$0,00038 \$0,00038 Transmission Local charge \$0,00038 \$0,00074 Base Transition Adjustment Factor \$0,00074 \$0,00074 Transmission Local charge \$0,00074 \$0,00074 Base Transition Adjustment Factor \$0,00078 \$0,00074 Standard Offer Service Base Charge \$0,00568 \$0,00074 Standard Offer Service Base Charge \$0,00568 \$0,00568 SOS Adjustment Factor \$0,00294 \$0,00294 Remarked Charge RWh x \$0,00294 \$0,00294 SOS Adjustment Factor \$0,00294 \$0,00294 SOS Adjustment Factor \$0,00394 \$0,00394 <td>Net Metering Charge</td> <td></td> <td></td> <td></td> <td>\$0.00266</td> <td></td> <td></td> <td></td> <td>\$0.00266</td> <td></td> <td>6</td> <td></td> <td>0</td> <td></td> <td></td> <td></td> <td></td> <td></td>	Net Metering Charge				\$0.00266				\$0.00266		6		0					
SOUDD SOUD	Base Transmission Charge				\$0.03096				\$0.03096									
Intellegacy Energy Efficiency Program Charge S0.00034 S0.000038 S0.000038 S0.000038 S0.000038 S0.00004 S0.000004 S0.00004	Transmission Adjustment Facto	_			(\$0.00189)				(\$0.00189)	Ţ.	ransmission Cha	rge						
Case Charles Pendent Charge Case Charge	Base Transition Charge	TOL			\$0.00038				\$0.00038									
Energy Efficiency Program Change \$0.01353 \$0.01843 Standard Office Service Base Change \$0.00568 \$0.00568 SON Adjustment Factor \$0.00566 \$0.00256 SON Adjustment Factor \$0.000230 \$0.00256 SON Adjustment Factor \$0.000230 \$0.00230 Reavable Energy Standard Charge \$0.000230 \$0.000230 Reavable Energy Standard Charge \$0.000230 \$0.000230 List Energy Standard Charge \$0.000230 \$0.000230 LIHEAP Enhancement Charge \$0.80 \$0.80 LIHEAP Enhancement Charge \$0.80 \$0.80 KWh x \$0.00245 \$0.00294 Distribution Energy Charge kWh x \$0.00280 Rwh x \$0.00380 \$0.00294 Tanastion Charge kWh x \$0.00380 Energy Efficiency Programs kWh x \$0.00380 Reavable Energy Efficiency Programs kWh x \$0.01197 Standard Charge kWh x \$0.01197 \$0.01370	Transition Adjustment				(\$0.00008)				(\$0.00008)	I	ransition Charge							
Standard Offer Service Base Charge \$0.09568 \$0.09568 SOS Adjustment Factor \$0.00294 \$0.00294 SOS Adjustment Factor \$0.002024 \$0.00294 SOS Adjustment Factor \$0.00294 \$0.00294 Renewable Energy Standard Charge \$0.00866 \$0.00294 Line Item on Bill \$6.00 \$0.00866 Customer Charge \$0.80 \$0.00866 Line Item on Bill \$6.00 \$0.00866 Line Construct Charge \$0.80 \$0.00866 Line Construct Charge RWh x \$0.02945 \$0.00945 Distribution Charge RWh x \$0.003849 \$0.003945 Distribution Charge RWh x \$0.003849 \$0.003945 Transition Charge RWh x \$0.003849 \$0.003849 Reavewable Fareary Distribution Charge RWh x \$0.00137 \$0.001197 Standard Charge Pareary Charge RWh x \$0.001197 \$0.001197	Energy Efficiency Program Cha	.ge			\$0.01353				\$0.01843	Н	nergy Efficiency h	Programs						
Cost Adjustment Factor (\$000294) (\$000294) SOS Adjustment Factor \$0.002020 \$0.00220 Reaewable Energy Standard Change \$0.00866 \$0.00866 Line Item on Bill \$6.00 \$0.00866 Customer Change \$0.80 \$0.008 LIHEAP Palmacement Change \$0.80 \$0.80 LIGHAP Palmacement Change \$0.00 \$0.00945 Transmission Change kWh x \$0.02945 \$0.00945 Distribution Change kWh x \$0.00809 \$0.00945 Dastribution Change kWh x \$0.00809 \$0.00802 Reavewable Energy Distribution Change kWh x \$0.01333 \$0.01197 Sannok Services Fenery Change kWh x \$0.01347 \$0.01197	Standard Offer Service Base Ch.	arge			\$0.09568				\$0.09568									
So Administrative Cost Augustment Partor	SOS Adjustment Factor				(\$0.00294)				(\$0.00294)	s	upply Services Et	nergy Charge						
Line Item on Bill \$6.00 Customer Charge \$0.80 LittleA.P. Palmacernet Charge \$0.80 RE Growth Program \$2.16 Transmission Charge kWh x \$0.02945 Distribution Charge kWh x \$0.03549 Transition Charge kWh x \$0.01352 Energy Efficiency Programs kWh x \$0.01357 Kanewable Fargery Distribution Charge kWh x \$0.01197 Simply Sorvices Fargery Charge kWh x \$0.01197		arge			\$0.00866				\$0.00866									
Chirary Induction Charge S2.16	Line Item on Bill Customer Charge				\$6.00				\$6.00									
Transmission Charge kWh x \$0.02945 Distribution charge kWh x \$0.02810 Pransition Charge kWh x \$0.03810 Facety Efficiency Programs kWh x \$0.01337 Reconvolbe Leagy Distribution Charge kWh x \$0.01197 Simply Sovieties Fearer Charge kWh x \$0.01170					\$2.16				\$2.16									
Distribution Charge RWIN x \$0.003637 \$0.003637 Transition Charge RWIN x \$0.001353 \$0.003635 Energy Efficiency Programs RWIN x \$0.001197 \$0.001197 Simply Services Feneror Charge RWIN x \$0.01197 \$0.001197	Transmission Charge			kWh x	\$0.02945				\$0.02945									
ion Charge KWh x SO 11370	Distribution Energy Charge Transition Charge Energy Efficiency Programs			kWh x	(\$0.00082)			L	\$0.03809 (\$0.00082) \$0.01843									
	Renewable Energy Distribution	Charge		kWh x	\$0.01197			1	\$0.01197									

Column (9.) For Summary of Retail Delivery Service Rates, R.1.P.U.C. No. 2095 effective 101/2020, and Summary of Rates Standard Offer Service tariff, R.1.P.U.C. No. 2096, effective 107/2020; Line (22) Per Docket Column (1); All lines except Line (22) per Summary of Retail Delivery Service Rates, R.1.P.U.C. 2095 effective 107/2020, and Summary of Rates Standard Offer Service tariff, R.1.P.U.C. No. 2096, effective 107/2020; Line (22) Per Docket 5076, Schedule A. Line (17), Year 2022 (Bates page 148) + \$6,00030 for renewables charge

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The Narragansett Electric Company Calculation of Monthly Typical Bill Total Bill Impact of Proposed Rates Applicable to A-60 Rate Customers

		Prope	Proposed Rates effective January 1, 2021	ve January 1, 20.	21			Propos	2d Rates effective	Proposed Rates effective January 1, 2022	2			S Increase (Decrease)	crease)		Incres	Increase (Decrease) % of Total Bill	of Total Bill	Pe	Percentage
Monthly	Delivery	Supply	Low Income Discounted	Discounted			Delivery	Supply I	Low Income Discounted	Discounted				Supply				Supply			of Customers
kWh	Services	Services	Discount $(d) = [(b) + (c)] (e$	Total $(e) = (b) + (c)$	GET	Total	Services		Discount Total (i) = $[(h)+(i)]$ (k) = $(h)+(i)$	Total (k) = (h) + (i)	GET	Total (n)	Services $(n) = [(h)+(i)]$.	Services	GET (q):	Total $(q) = (n) + (o)$	Services S $(r) = (n) \div$	Services	GET	Total	
(a)	(p)	(c)		(p) +	(f)	(g) = (e) + (f)	(p)	, (i)	x25	(0)+	(I)	(m) = (k) + (l)		(o) = (i) - (c) (p)	(b) - (l) = (d)			(s) = (o) ÷ (c) (t)	$(t) = (p) \div (f)$ $(u) =$	(g) ÷ (g) = (u)	(v)
150	\$25.53	\$15.56	(\$10.27)	\$30.82	\$1.28	\$32.10	\$26.26	\$15.56	(\$10.46)	\$31.36	\$1.31	\$32.67	\$0.54	80.00	\$0.03	\$0.57	1.7%	0.0%	0.1%	1.8%	32.1%
300	\$42.10	\$31.11	(\$18.30)	\$54.91	\$2.29	\$57.20	\$43.57	\$31.11	(\$18.67)	\$56.01	\$2.33	\$58.34	\$1.10	80.00	\$0.04	\$1.14	1.9%	0.0%	0.1%	2.0%	15.4%
400	\$53.14	\$41.48	(\$23.66)	\$70.96	\$2.96	\$73.92	\$55.10	\$41.48	(\$24.15)	\$72.43	\$3.02	\$75.45	\$1.47	80.00	\$0.06	\$1.53	2.0%	0.0%	0.1%	2.1%	12.5%
200	\$64.19	\$51.85	(\$29.01)	\$87.03	\$3.63	\$90.66	\$66.64	\$51.85	(\$29.62)	\$88.87	\$3.70	\$92.57	\$1.84	80.00	\$0.07	\$1.91	2.0%	0.0%	0.1%	2.1%	%9.6
009	\$75.24	\$62.22	(\$34.37)	\$103.09	\$4.30	\$107.39	\$78.18	\$62.22	(\$35.10)	\$105.30	\$4.39	\$109.69	\$2.21	80.00	80.09	\$2.30	2.1%	0.0%	0.1%	2.1%	7.2%
700	\$86.28	\$72.59	(\$39.72)	\$119.15	\$4.96	\$124.11	\$89.71	\$72.59	(\$40.58)	\$121.72	\$5.07	\$126.79	\$2.57	80.00	\$0.11	\$2.68	2.1%	0.0%	0.1%	2.2%	16.4%
1,200	\$141.51	\$124.44	(\$66.49)	\$199.46	\$8.31	\$207.77	\$147.39	\$124.44	(967.96)	\$203.87	\$8.49	\$212.36	14.12	80.00	\$0.18	\$4.59	2.1%	0.0%	0.1%	2.2%	5.2%
2,000	\$229.88	\$207.40	(\$109.32)	\$327.96	\$13.67	\$341.63	\$239.68	\$207.40	(\$111.77)	\$335.31	\$13.97	\$349.28	\$7.35	80.00	\$0.30	\$7.65	2.2%	0.0%	0.1%	2.2%	1.6%
				Proposed P.	Pronoced Rates offsetive Ismustry 1 202	1 202 1				Pronosed B	Prorozed Rates effective January 1 2022	2002	Ē	line hem on Bill							
				100000	area circuit com	(w)				The state of the s		(x)									
(1) Distribution Customer Charge						86.00						\$6.00	Cus	Customer Charge							
(2) LIHEAP Enhancement Charge						\$0.80						\$0.80	TIF.	LIHEAP Enhancement Charge	ent Charge						
	ogram Charge					\$2.16						\$2.16	RE	RE Growth Program							
						\$0.04580						\$0.04580									
	ense Charge					\$0.00212						\$0.00212									
	ense Reconciliation	on Factor				\$0.00002						\$0.00002									
(7) CapEx Factor Charge						\$0.00396						\$0.00396									
(8) Capex Reconciliation Factor	Doorton					\$0.00090						\$0.0000	Ž	Dietribution Enarmy Charge	Porce						
	SIL FACIOI					\$0.00118						\$0.00118	5	Sarrounous Euclig	Charge						
(10) Pension Adjustment Factor						(\$0.000/3)						(\$0.000/3)									
(11) Storin Fund Nephembant Adjustment Bester	KIOI ment Factor					\$0.00250						\$0.00288									
(12) Attentage Management Aujus (13) Performance Incentive Factor	THE III I SECTION					\$0,0000						\$0,000									
(14) Low Income Discount Recovery Factor	v Factor					80.00000						80.0000									
(15) Long-term Contracting for Renewable Energy Charge	ewable Energy Cl	large				\$0,00931						\$0,00931		:							
(16) Net Metering Charge						\$0.00266						\$0.00266	Re	Renewable Energy Distribution Charge	Distribution Cha	nge					
(17) Base Transmission Charge						\$0.03096						\$0.03096									
(18) Transmission Adjustment Factor	or					(\$0.00189)						(\$0.00189)	Π	Transmission Charge	9.						
(19) Transmission Uncollectible Factor	ctor					\$0.00038						\$0.00038									
(20) Base Transition Charge						(\$0.00074)						(\$0.00074)	Ţ	Transition Charge							
(22) Energy Efficiency Program Charge	arge					\$0.01353						\$0.01843	Ene	Energy Efficiency Programs	ograms	Î					
(23) Standard Offer Service Base Charge	harge					\$0.09568						\$0.09568									
(24) SOS Adjustment Factor	0					(\$0.00294)						(\$0.00294)	my.	Sunniv Services Fuerov Charge	rox Charge						
(25) SOS Adminstrative Cost Adjustment Factor (26) Renewable Energy Standard Charge	stment Factor					\$0.00230						\$0.00230		The same field	6						
A Designation of the Control of the	29																				
Line Item on Bill						0093						0093									
(27) Customer Charge (28) LIHEAP Enhancement Charge						\$0.80						\$0.80									
(29) RE Growth Program						\$2.16						\$2.16									
(30) Transmission Charge						\$0.02945						\$0.02945									
(31) Distribution Energy Charge (32) Transition Charge						\$0.05633						\$0.05633									
(33) Energy Efficiency Programs						\$0.01353						\$0.01843									
(34) Renewable Energy Distribution Charge	n Charge				J	\$0.01197					J	\$0.01197									
(35) Supply Services Energy Charge (36) Discount percentage	9					\$0.103/0 25%						\$0.103/0 25%									

Column (w), per Summany of Retail Delivery Service Rates, R.I.P.U.C., No. 2095 effective 10/1/2020, and Summany of Rates Standard Offer Service Inriff, R.I.P.U.C. No. 2096, effective 10/1/2020, Line (22) per Summany of Retail Delivery Service Rates, R.I.P.U.C. 2095 effective 10/1/2020, and Summany of Rates Standard Offer Service Inriff, R.I.P.U.C. No. 2096, effective 10/1/2020, Line (22) Per Docket 5076, Schedule A, Line (17), Year 2022 (Bates page 148) + \$0.00030 for renewables charge

The Narragansett Electric Company Calculation of Monthly Typical Bill Total Bill Impact of Proposed Rates Applicable to A-60 Rate Customers

		Prop	Proposed Rates effective January 1, 2021	ive January 1, 20.	21			Propose	Proposed Rates effective January 1, 2022	January 1, 2022				S Increase (Decrease)	ase)		Increas	Increase (Decrease) % of Total Bill	of Total Bill	Pe	Percentage
Monthly	Delivery	Supply	Low Income Discounted	Discounted				Supply Lc	Low Income Discounted	scounted			0,	Supply		Ď		Supply		OfC	of Customers
kWh	Services	Services	Discount	Total	GET	Total			Discount		GET	Total			GET T	Total Se			GET	Total	
			(d) = [(b) + (c)] $(e) = (b) + (c)$	(e) = (b) + (c)					. ≅	(i) -			Ė			(0) +					
(a)	(p)	(0)	х30	(p) +	(t)	(g) = (e) + (f)	(h)	(i)	x30	+(j)	(I) (m):	(m) = (k) + (l)	=(o) [(p)+(q)]	(o) = (i) - (c) (b) = ((b) = (l) - (l)	(d) +	: (s) [(p)+(q)]	(s) = (o) ÷ (c) (t) =	$(t) = (p) \div (f)$ $(u) = (q) \div (g)$	(g) ÷ (b) =	(x)
150	\$25.53	\$15.56	(\$12.33)	\$28.76	\$1.20	\$29.96	\$26.26	\$15.56	(\$12.55)	\$29.27	\$1.22	\$30.49	\$0.51	80.00	\$0.02	\$0.53	1.7%	90.0	0.1%	1.8%	32.1%
300	\$42.10	\$31.11	(\$21.96)	\$51.25	\$2.14	\$53.39	\$43.57	\$31.11	(\$22.40)	\$52.28	\$2.18	\$54.46	\$1.03	80.00	\$0.04	\$1.07	1.9%	%0.0	0.1%	2.0%	15.4%
400	\$53.14	\$41.48	(\$28.39)	\$66.23	\$2.76	868.99	\$55.10	\$41.48	(\$28.97)	\$67.61	\$2.82	\$70.43	\$1.38	80.00	\$0.06	\$1.44	2.0%	0.0%	0.1%	2.1%	12.5%
200	\$64.19	\$51.85	(\$34.81)	\$81.23	\$3.38	\$84.61	\$66.64	\$51.85	(\$35.55)	\$82.94	\$3.46	\$86.40	\$1.71	80.00	80.08	81.79	2.0%	0.0%	0.1%	2.1%	%9'6
009	\$75.24	\$62.22	(\$41.24)	\$96.22	\$4.01	\$100.23	878.18	\$62.22	(\$42.12)	\$98.28	\$4.10	\$102.38	\$2.06	\$0.00	80.09	\$2.15	2.1%	0.0%	0.1%	2.1%	7.2%
700	\$86.28	\$72.59	(\$47.66)	\$111.21	\$4.63	\$115.84	17:68\$	\$72.59	(\$48.69)	\$113.61	\$4.73	\$118.34	\$2.40	\$0.00	\$0.10	\$2.50	2.1%	%0.0	0.1%	2.2%	16.4%
1,200	\$141.51	\$124.44	(\$79.79)	\$186.16	\$7.76	\$193.92	\$147.39	\$124.44	(\$81.55)	\$190.28	\$7.93	\$198.21	\$4.12	80.00	\$0.17	\$4.29	2.1%	%0.0	0.1%	2.2%	5.2%
2,000	\$229.88	\$207.40	(\$131.18)	\$306.10	\$12.75	\$318.85	\$239.68	\$207.40	(\$134.12)	\$312.96	\$13.04	\$326.00	\$6.86	80.00	\$0.29	\$7.15	2.2%	0.0%	0.1%	2.2%	1.6%
				Pronoug B	Proposed Pates effective Ismers 1 2021	1 202 1 suem				Promosed Pates	Processed Rates effective Languer 1 2022	2002	Lauil	I in a Item on Bill							
				TIONOGH N	ates effective Ja.	(w)				TIO YORA IVAIC	s enective Jamua	(x)	all l	ile il oii piii							
(1) Distribution Customer Charge						86.00						86.00	Custor	Customer Charge							
(2) LIHEAP Enhancement Charge						80.80						80.80	LIHE	LIHEAP Enhancement Charge	Charge						
(3) Renewable Energy Growth Program Charge	ogram Charge					\$2.16						\$2.16	RE G	RE Growth Program							
						\$0.04580					S	\$0.04580									
(5) Operating & Maintenance Expense Charge	ense Charge					\$0.00212					y)	\$0.00212									
	sense Reconciliativ	on Factor				\$0.00002					*7	\$0.00002									
(7) CapEx Factor Charge						\$0.00396					<i>-1</i>	\$0.00396									
(8) Capex Reconcination Factor						\$0.00090					. 7	\$0.00090	2	Ē							
(9) Revenue Decouping Adjustment Factor	ent ractor					\$0.00118					., 6	\$0.00118	Distr	Distribution Energy Charge	large						
(10) Fension Adjustment Factor (11) Storm Find Bonlonish man Festion	100					(\$0.000/3)					ه در	\$0.000/3)									
(11) Stoffill Fulld Nephellishinkiit Factor (12) America Management Adjustment Ecotor	actor					\$0.00288					, 9	\$0.00288									
(13) Performance Incentive Factor						\$00000					, •	\$00000\$									
(14) Low Income Discount Recovery Factor	v Factor					\$0.0000					. v 1	80.00000									
(15) Long-term Contracting for Renewable Energy Charge	newable Energy Ci	harge				\$0.00931					. (0)	\$0.00931	ŝ								
(16) Net Metering Charge	3	,				\$0.00266					50	\$0.00266	Kene	Renewable Energy Distribution Charge	tribution Char	as					
(17) Base Transmission Charge						\$0.03096					*)	\$0.03096									
(18) Transmission Adjustment Factor	tor					(\$0.00189)					3)	(\$0.00189)	Trans	Transmission Charge							
(19) Transmission Uncollectible Factor	etor					\$0.00038					\$	\$0.00038									
(20) Base Transition Charge						(\$0.00074)					2	(\$0.00074)	Trans	Transition Charge							
(21) Transition Adjustment						(\$0.00008)					2	(\$0.00008)		,							
(22) Energy Efficiency Program Charge	narge					\$0.01353					*7	\$0.01843	Energ	Energy Efficiency Programs	rams						
(23) Standard Offer Service Base Charge	Tharge					\$0.09568					-7	\$0.09568									
) SOS Adjustment Factor						(\$0.00294)					J. 6	(\$0.00294)	Suppl	Supply Services Energy Charge	v Charge						
(22) SOS Adminstrative Cost Adjustment Factor (26) Renewable Energy Standard Charge	Stment Factor Tharge					\$0.00230					., v)	\$0.00230									
Line Item on Bill																					
(27) Customer Charge						\$6.00						\$6.00									
(28) LIHEAP Enhancement Charge	0					50.80						50.80									
(29) NE Growth Flogram (30) Transmission Charge						\$2.10					9	\$2.10									
(31) Distribution Energy Charge						\$0.05633					. 🕠	\$0.05633									
(32) Transition Charge					L	(\$0.00082)					5)	(\$0.00082)									
(33) Energy Efficiency Programs (34) Renewable Energy Distribution Charge	n Charge					\$0.01353					-> S	\$0.01843									
(35) Supply Services Energy Charge	9.					\$0.10370					'n	\$0.10370									
 Discount percentage 						30%						30%									

Column (w), per Summany of Retail Delivery Service Rates, R.I.P.U.C., No. 2095 effective 10/1/2020, and Summany of Rates Standard Offer Service Inriff, R.I.P.U.C. No. 2096, effective 10/1/2020, Line (22) per Summany of Retail Delivery Service Rates, R.I.P.U.C. 2095 effective 10/1/2020, and Summany of Rates Standard Offer Service Inriff, R.I.P.U.C. No. 2096, effective 10/1/2020, Line (22) Per Docket 5076, Schedule A, Line (17), Year 2022 (Bates page 148) + \$0.00030 for renewables charge

The Narragansett Electric Company
drbta National Grid
RPUCI Docket 5075
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16.9% 8.1% 5.0%

1.9% 2.1% 2.3% 2.3%

0.1% 0.1%

0.1% 0.1%

Percentage of Customers

Total (m)

The Narragansett Electric Company Calculation of Monthly Typical Bill Total Bill Impact of Proposed Rates Applicable to C-06 Rate Customers

Proposed Rates effective January 1, 2022

Monthly			Supply			Delivery	Supply			Delivery	Supply			Delivery	Supply	
KWh (a)	Services (b)		Services (c)	GET.	(e)	Services (b)	Services (c)	GET.	Total (e)	Services (f)	Services (g)	.H. (H.	Total (i)	Services (j)	Services (k)	ਜੂ ≘
250	₹.	\$41.13	\$23.34	\$2.69	\$67.16	\$42.35	\$23.34	\$2.74	\$68.43	\$1.22	\$0.00	\$0.05	\$1.27	1.8%	0.0%	0
200	35	\$68.11	\$46.67	\$4.78	\$119.56	\$70.56	\$46.67	\$4.88	\$122.11	\$2.45	\$0.00	\$0.10	\$2.55	2.0%	0.0%	0
1,000	\$17	\$122.06	\$93.34	\$8.98	\$224.38	\$126.96	\$93.34	\$9.18	\$229.48	\$4.90	\$0.00	\$0.20	\$5.10	2.2%	0.0%	Ö
1,500	SIS	\$176.02	\$140.01	\$13.17	\$329.20	\$183.37	\$140.01	\$13.47	\$336.85	\$7.35	\$0.00	\$0.30	\$7.65	2.2%	0.0%	Ö
2,000	\$27	\$229.97	\$186.68	\$17.36	\$434.01	\$239.77	\$186.68	\$17.77	\$444.22	\$9.80	\$0.00	\$0.41	\$10.21	2.3%	0.0%	0
			Proposed Ra	Proposed Rates effective January 1, 2021	uary 1, 2021		Proposed Ra	Proposed Rates effective January 1, 2022	nuary 1, 2022	7	Line Item on Bill					
					(0)				(d)	11						
(1) Distribution Customer Charge	r Charge				\$10.00				\$10.00	0	Customer Charge					
(2) LIHEAP Enhancement Charge	nt Charge				\$0.80				\$0.80	T	LIHEAP Enhancement Charge	ent Charge				
	Renewable Energy Growth Program Charge	ie			\$3.35				\$3.35	R	RE Growth Program	n n				
(4) Distribution Charge (per kWh)	(per kWh)				\$0.04482				\$0.04482							
(5) Operating & Mainten	Operating & Maintenance Expense Charge				\$0.00212				\$0.00212							
(6) Operating & Mainten	Operating & Maintenance Expense Reconciliation Factor	iliation Facto	or		\$0.00002				\$0.00002							
(7) CapEx Factor Charge	9				\$0.00339				\$0.00339							
(8) CapEx Reconciliation Factor	n Factor				\$0.00085				\$0.00085							
	Adjustment Factor				\$0.00118				\$0.00118	Д	Distribution Energy Charge	, Charge				
(10) Pension Adjustment Factor	Factor				(\$0.00073)				(\$0.00073)							
(11) Storm Fund Replenishment Factor	hment Factor				\$0.00288				\$0.00288							
(12) Arrearage Management Adjustment Factor	ent Adjustment Factor				\$0.00015				\$0.00015							
(13) Performance Incentive Factor	e Factor				\$0.00005				\$0.00005							
(14) Low Income Discount Recovery Factor	it Recovery Factor				\$0.00176				\$0.00176							
(15) Long-term Contractin	Long-term Contracting for Renewable Energy Charge	rgy Charge			\$0.00931				\$0.00931	d	Danawahla Enasm Diefribution Charae	Dietribution Ch	ODAO			
(16) Net Metering Charge					\$0.00266				\$0.00266	N	circ wante Lifetgy	Distribution	arge			
(17) Base Transmission Charge	harge				\$0.03110				\$0.03110							
(18) Transmission Adjustment Factor	ment Factor				(\$0.00467)				(\$0.00467)	T	Transmission Charge	ge				
(19) Transmission Uncollectible Factor	ectible Factor				\$0.00031				\$0.00031							
(20) Base Transition Charge	.ge				(\$0.00074)				(\$0.00074)	F	Transition Charge					
	ıt				(\$0.00008)				(\$0.00008)	•	Similar Harrison					
	ogram Charge				\$0.01353				\$0.01843	E	Energy Efficiency Programs	rograms				
	ce Base Charge				\$0.08150				\$0.08150							
	tor				\$0.00094				\$0.00094	S	Supply Services Energy Charge	nergy Charge				
(25) SOS Adminstrative C	SOS Adminstrative Cost Adjustment Factor	ı.			\$0.00224				\$0.00224							
(26) Renewable Energy Standard Charge	tandard Charge				\$0.00866				\$0.00866							
Line Item on Bill																
					\$10.00				\$10.00							
	nt Charge				\$0.80				\$0.80							
					\$3.35				\$3.35							
(31) Distribution Energy Charge	horae				\$0.026/4				\$0.026/4							
	Charge				(\$0.00082)				(\$0.00082)							
(33) Energy Efficiency Programs	ograms				\$0.01353			Ш	\$0.01843							
(34) Renewable Energy Distribution Charge	istribution Charge				\$0.01197				\$0.01197							
(35) Supply Services Energy Charge	fgy Charge				\$0.09334				\$0.09334							

Column (o): per Summary of Retail Delivery Service Rates, R.I.P.U.C. No. 2095 effective 1071/2020, and Summary of Rates Standard Offer Service tariff, R.I.P.U.C. No. 2096, effective 1071/2020, Line (22) Column (p): All lines except Line (22) per Summary of Retail Delivery Service Rates, R.I.P.U.C. 2095 effective 1071/2020, and Summary of Rates Standard Offer Service tariff, R.I.P.U.C. No. 2096, effective 1071/2020; Line (22) Per Docket 5076, Schedule A, Line (17), Year 2022 (Bates page 148) + \$60.00030 for renewables charge

The Narragansett Electric Company
db/a National Grid
RIPUC Docket 5076
Attachment 1-37 (2)
Base Case Year 2
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The Narragansett Electric Company Calculation of Monthly Typical Bill Total Bill Impact of Proposed Rates Applicable to G-02 Rate Customers

		Propc	Proposed Rates effective	ive January 1, 2021	21	Propc	Proposed Rates effective January 1, 2022	e January 1, 20	22		\$ Increase (Decrease)	Decrease)			Increase (Decrease) % of Total Bil	:) % of Total Bill	
Monthly Power		Delivery	Supply			Delivery	Supply			Delivery	Supply			Delivery	Supply		
	kWh	Services	Services	GET	Total	Services	Services	GET	Total	Services	Services	GET	Total	Services	Services	GET	Total
		(p)	(c)	(p)	(e)	(p)	(c)	(p)	(e)	(t)	(g)	(h)	(i)	(i)	(k)	(1)	(m)
	4,000	\$526.47	\$373.36	\$37.49	\$937.32	\$546.07	\$373.36	\$38.31	\$957.74	\$19.60	\$0.00	\$0.82	\$20.42	2.1%	0.0%	0.1%	2.2%
	10,000	\$1,166.85	\$933.40	\$87.51	\$2,187.76	\$1,215.85	\$933.40	\$89.55	\$2,238.80	\$49.00	\$0.00	\$2.04	\$51.04	2.2%	0.0%	0.1%	2.3%
	20,000	\$2,234.15	\$1,866.80	\$170.87	\$4,271.82	\$2,332.15	\$1,866.80	\$174.96	\$4,373.91	898.00	\$0.00	\$4.09	\$102.09	2.3%	0.0%	0.1%	2.4%
	30,000	\$3,301.45	\$2,800.20	\$254.24	\$6,355.89	\$3,448.45	\$2,800.20	\$260.36	\$6,509.01	\$147.00	\$0.00	\$6.12	\$153.12	2.3%	0.0%	0.1%	2.4%
	000'9	\$617.53	\$560.04	\$49.07	\$1,226.64	\$646.93	\$560.04	\$50.29	\$1,257.26	\$29.40	\$0.00	\$1.22	\$30.62	2.4%	960'0	0.1%	2.5%
	15,000	\$1,394.50	\$1,400.10	\$116.44	\$2,911.04	\$1,468.00	\$1,400.10	\$119.50	\$2,987.60	\$73.50	\$0.00	\$3.06	\$76.56	2.5%	0.0%	0.1%	2.6%
	30,000	\$2,689.45	\$2,800.20	\$228.74	\$5,718.39	\$2,836.45	\$2,800.20	\$234.86	\$5,871.51	\$147.00	\$0.00	\$6.12	\$153.12	2.6%	0.0%	0.1%	2.7%
	45,000	\$3,984.40	\$4,200.30	\$341.03	\$8,525.73	\$4,204.90	\$4,200.30	\$350.22	\$8,755.42	\$220.50	\$0.00	\$9.19	\$229.69	2.6%	0.0%	0.1%	2.7%
	8,000	\$708.59	\$746.72	\$60.64	\$1,515.95	\$747.79	\$746.72	\$62.27	\$1,556.78	\$39.20	\$0.00	\$1.63	\$40.83	2.6%	0.0%	0.1%	2.7%
	20,000	\$1,622.15	\$1,866.80	\$145.37	\$3,634.32	\$1,720.15	\$1,866.80	\$149.46	\$3,736.41	898.00	80.00	\$4.09	\$102.09	2.7%	0.0%	0.1%	2.8%
	40,000	\$3,144.75	\$3,733.60	\$286.60	\$7,164.95	\$3,340.75	\$3,733.60	\$294.76	\$7,369.11	\$196.00	80.00	\$8.16	\$204.16	2.7%	0.0%	0.1%	2.8%
	60,000	\$4,667.35	\$5,600.40	\$427.82	\$10,695.57	\$4,961.35	\$5,600.40	\$440.07	\$11,001.82	\$294.00	\$0.00	\$12.25	\$306.25	2.7%	0.0%	0.1%	2.9%
	10,000	\$799.65	\$933.40	\$72.21	\$1,805.26	\$848.65	\$933.40	\$74.25	\$1,856.30	\$49.00	\$0.00	\$2.04	\$51.04	2.7%	0.0%	0.1%	2.8%
	25,000	\$1,849.80	\$2,333.50	\$174.30	\$4,357.60	\$1,972.30	\$2,333.50	\$179.41	\$4,485.21	\$122.50	\$0.00	\$5.11	\$127.61	2.8%	0.0%	0.1%	2.9%
	50,000	\$3,600.05	\$4,667.00	\$344.46	\$8,611.51	\$3,845.05	\$4,667.00	\$354.67	\$8,866.72	\$245.00	\$0.00	\$10.21	\$255.21	2.8%	0.0%	0.1%	3.0%
	75,000	\$5,350.30	\$7,000.50	\$514.62	\$12,865.42	\$5,717.80	\$7,000.50	\$529.93	\$13,248.23	\$367.50	\$0.00	\$15.31	\$382.81	2.9%	0.0%	0.1%	3.0%
	12,000	\$890.71	\$1,120.08	\$83.78	\$2,094.57	\$949.51	\$1,120.08	\$86.23	\$2,155.82	\$58.80	\$0.00	\$2.45	\$61.25	2.8%	0.0%	0.1%	2.9%
	30,000	\$2,077.45	\$2,800.20	\$203.24	85,080.89	\$2,224.45	\$2,800.20	\$209.36	\$5,234.01	\$147.00	\$0.00	\$6.12	\$153.12	2.9%	0.0%	0.1%	3.0%
	000'09	\$4,055.35	\$5,600.40	\$402.32	\$10,058.07	\$4,349.35	\$5,600.40	\$414.57	\$10,364.32	\$294.00	\$0.00	\$12.25	\$306.25	2.9%	0.0%	0.1%	3.0%
	000'06	\$6,033.25	\$8,400.60	\$601.41	\$15,035.26	\$6,474.25	\$8,400.60	\$619.79	\$15,494.64	\$441.00	\$0.00	\$18.38	\$459.38	2.9%	960'0	0.1%	3.1%

Column (0): per Summary of Reatal Delivery Service Rates, R.L.P.U.C. No. 2095 effective 10/1/2020, and Summary of Rates Standard Offer Service tariff, R.L.P.U.C. No. 2096, effective 10/1/2020, Line (24) per Docket 3076, Schedule A. Line (17), Year 2022 (Bates page 148) + \$0.00030 for renewables charge

	(Decr		B	€	97	33	Š,
	\$ Increase (Decn	Supply	Services	(6)	\$0.00	\$0.00	\$0.00
		Delivery	Services	9	\$196.00	\$735.00	\$980.00
	22		Total	(e)	\$7,624.95	\$28,249.95	\$37,624.95
Bill id stomers	ve January 1, 20		GET	(P)	\$305.00	\$1,130.00	\$1,505.00
The Narnganest Electric Company Calculation of Monthly Typical Bill Total Bill Impact of Proposed Rates Applicable to G-32 Rate Customers	Proposed Rates effective January 1, 2022	Supply	Services	(0)	\$2,951.60	\$11,068.50	\$14,758.00
The Narragan Calculation of Total Bill Rates Applicable	Prop	Delivery	Services	(p)	\$4,368.35	\$16,051.45	\$21,361.95
	21		Total	(e)	\$7,420.78	\$27,484.32	\$36,604.11
	Proposed Rates effective January 1, 2021		GET	(p)	\$296.83	\$1,099.37	\$1,464.16
	oposed Rates effec	Supply	Services	(0)	\$2,951.60	\$11,068.50	\$14,758.00
	Pr	Delivery	Services	(P)	\$4,172.35	\$15,316.45	\$20,381.95
	Г	_			00	8	8

				Proposed Rates effective January 1, 2021	ective January 1, 2	021		Proposed Rates effective January 1, 2022	ve January 1, 207	22		\$ Increase (Decrease)	Secrease)		Increase (Decrease) % of Total Bill	ecrease) %	of Total E	3ill
MA	Monthly Power Hours Hea	1 Wh	Delivery	Supply	EET	Total	Delivery	Supply	TED	Total	Services	Supply	FFF	Total	Selivery Supply	aply GFT	Total	7
	(a)		(p)	(c)	Ð	(9)	(p)	(0)	(p)	(9)		(6)	æ		0			1 2
200	200	40,000	\$4,172.35	\$2,951.60	\$29683	\$7,420.78	\$4,368.35	\$2,951.60	\$305.00	\$7,624.95	\$196.00	\$0.00	\$8.17	\$204.17	2.6% (0.0% 0	.1% 2	.8%
750	200	150,000	\$15,316.45	\$11,068.50	\$1,099.37	\$27,484.32	\$16,051.45	\$11,068.50	\$1,130.00	\$28,249.95	\$735.00	\$0.00	\$30.63	\$765.63	2.7% (0.0% 0	.1% 2	.8%
1,000	200	200,000	\$20,381.95	\$14,758.00	\$1,464.16	\$36,604.11	\$21,361.95	\$14,758.00	\$1,505.00	\$37,624.95	\$980.00	\$0.00	\$40.84	\$1,020.84	2.7% (0.0% 0	.1% 2	.8%
1,500	200	300,000	\$30,512.95	\$22,137.00	\$2,193.75	\$54,843.70	\$31,982.95	\$22,137.00	\$2,255.00	\$56,374.95	\$1,470.00	\$0.00		\$1,531.25	2.7% (0.0% 0	.1% 2	.8%
2,500	200	500,000		\$36,895.00	\$3,652.91	\$91,322.86	\$53,224.95	\$36,895.00	\$3,755.00	\$93,874.95	\$2,450.00	\$0.00		\$2,552.09	2.7% (0.0% 0	.1% 2	.8%
5,000	200	1,000,000		\$73,790.00	\$7,300.83	\$182,520.78	\$106,329.95	\$73,790.00	\$7,505.00	\$187,624.95	\$4,900.00	\$0.00		\$5,104.17	2.7% (0.0% 0	.1% 2	.8%
7,500	200	1,500,000	\$152,084.95	\$110,685.00	\$10,948.75	\$273,718.70	\$159,434.95	\$110,685.00	\$11,255.00	\$281,374.95	\$7,350.00	\$0.00	\$306.25	\$7,656.25	2.7% (0.0%	.1% 2	98%
10,000	200	2,000,000	\$202,739.95	\$147,580.00	\$14,596.67	\$364,916.62	\$212,539.95	\$147,580.00	\$15,005.00	\$375,124.95	\$9,800.00	\$0.00		10,208.33	2.7% (0.0%	.1% 2	8%
20,000	200	4,000,000	\$405,359.95	\$295,160.00	\$29,188.33	\$729,708.28	\$424,959.95	\$295,160.00	\$30,005.00	\$750,124.95	00.009,618	\$0.00		\$20,416.67	2.7% (0.0%	.1%	9%
200	300	000'09	\$5,127.55	\$4,427.40	\$398.12	\$9,953.07	\$5,421.55	\$4,427.40	\$410.37		\$294.00	\$0.00		\$306.25	3.0%	0.0%	0.1% 3	8
750	300	225,000	\$18,898.45	\$16,602.75	\$1,479.22	\$36,980.42	\$20,000.95	\$16,602.75	\$1,525.15		\$1,102.50	\$0.00		\$1,148.43	3.0%	0.0% 0	.1% 3	×.
000'1	300	300,000	\$25,157.95	\$22,137.00	\$1,970.62	\$49,265.57	\$26,627.95	\$22,137.00	\$2,031.87	\$50,796.82	\$1,470.00	\$0.00		\$1,531.25	3.0%	0.0% 0	0.1% 3	×2.
1,500	300	450,000	\$37,676.95	\$33,205.50	\$2,953.44	\$73,835.89	\$39,881.95	\$33,205.50	\$3,045.31	\$76,132.76	\$2,205.00	\$0.00		\$2,296.87	3.0% (0.0%	0.1% 3	%T.
2,500	300	750,000	\$62,714.95	\$55,342.50	\$4,919.06	\$122,976.51	\$66,389.95	\$55,342.50	\$5,072.19	\$126,804.64	\$3,675.00	\$0.00		\$3,828.13	3.0%	0.0% 0	0.1% 3	2º.
5,000	300	1,500,000	\$125,309.95	\$110,685.00	\$9,833.12	\$245,828.07	\$132,659.95	\$110,685.00	\$10,139.37	\$253,484.32	\$7,350.00	\$0.00	\$306.25	\$7,656.25	3.0% (0.0% 0	.1% 3	×
7,500	300	2,250,000	\$187,904.95	\$166,027.50	\$14,747.19	\$368,679.64	\$198,929.95	\$166,027.50	\$15,206.56	\$380,164.01	\$11,025.00	\$0.00	\$459.37 \$11,484.37	11,484.37	3.0% (0.0% 0	.1% 3	× -
10,000	300	3,000,000	\$250,499.95	\$221,370.00	\$19,661.25	\$491,531.20	\$265,199.95	\$221,370.00		\$506,843.70	\$14,700.00	\$0.00	\$612.50 \$15,312.50	15,312.50	3.0%	0.0% 0	.1% 3	2º
20,000	300	6,000,000	\$500,879.95	\$442,740.00	\$39,317.50	\$982,937.45	\$530,279.95	\$442,740.00	\$40,542.50	\$1,013,562.45	\$29,400.00	\$ 00.08	\$1,225.00 \$30,625.00	30,625.00	3.0% (0.0% 0	.1% 3	.1%
200	400	80,000	\$6,082.75	\$5,903.20	\$499.41	\$12,485.36	\$6,474.75	\$5,903.20	\$515.75	\$12,893.70	\$392.00	\$0.00		\$408.34	3.1% (0.0%	.1% 3	.3%
750	400	300,000	\$22,480.45	\$22,137.00	\$1,859.06	\$46,476.51	\$23,950.45	\$22,137.00	\$1,920.31	\$48,007.76	\$1,470.00	\$0.00		\$1,531.25	3.2% (0.0% 0	.1% 3	3%
1,000	400	400,000	\$29,933.95	\$29,516.00	\$2,477.08	\$61,927.03	\$31,893.95	\$29,516.00	\$2,558.75	\$63,968.70	\$1,960.00	\$0.00	\$81.67	\$2,041.67	3.2% (0.0% 0	.1% 3	3%
1,500	400	900,009	\$44,840.95	\$44,274.00	\$3,713.12	\$92,828.07	\$47,780.95	\$44,274.00	\$3,835.62	595,890.57	\$2,940.00	\$0.00	\$122.50 \$3,062.50	\$3,062.50	3.2% (0.0%	.1% 3	3%
2,500	400	1,000,000	\$74,654.95	\$73,790.00	\$6,185.21	\$154,630.16	\$79,554.95	\$73,790.00	\$6,389.37	\$159,734.32	\$4,900.00	\$0.00	\$204.16 \$5,104.16	\$5,104.16	3.2% (0.0% 0	.1% 3	3%
5,000	400	2,000,000	\$149,189.95	\$147,580.00	\$12,365.42	\$309,135.37	\$158,989.95	\$147,580.00	\$12,773.75	\$319,343.70	\$9,800.00	\$0.00	\$408.33 \$10,208.33	10,208.33	3.2% (0.0%	.1% 3	3%
7,500	400	3,000,000		\$221,370.00	\$18,545.62	\$463,640.57	\$238,424.95	\$221,370.00	\$19,158.12	\$478,953.07	\$14,700.00	\$0.00	\$612.50 \$15,312.50	15,312.50	3.2% (0.0%	.1% 3	3.3%
10,000	400	4,000,000		\$295,160.00	\$24,725.83	\$618,145.78	\$317,859.95	\$295,160.00		\$638,562.45	\$19,600.00	\$0.00	\$816.67 \$20,416.67	20,416.67	3.2% (0.0% 0	.1% 3	3%
20,000	400	8,000,000	\$596,399.95	\$590,320.00	\$49,446.67	\$1,236,166.62	\$635,599.95	\$590,320.00	\$51,080.00	\$1,276,999.95	\$39,200.00	\$ 00.08	\$1,633.33 \$40,833.33	40,833,33	3.2% (0.0% 0	.1% 3	3%
200	200	100,000	\$7,037.95	\$7,379.00	\$600.71	\$15,017.66	\$7,527.95	\$7,379.00	\$621.12	\$15,528.07	\$490.00	\$0.00		\$510.41	3.3% (0.0% 0	.1% 3	% 4.
750	200	375,000	\$26,062.45	\$27,671.25	\$2,238.90	\$55,972.60	\$27,899.95	\$27,671.25	\$2,315.47	\$57,886.67	\$1,837.50	\$0.00		\$1,914.07	3.3% (0.0%	.1% 3	4%
1,000	200	500,000	\$34,709.95	\$36,895.00	\$2,983.54	\$74,588.49	\$37,159.95	\$36,895.00	\$3,085.62	\$77,140.57	\$2,450.00	\$0.00		\$2,552.08	3.3% (0.0%	.1% 3	74%
1,500	200	750,000	\$52,004.95	\$55,342.50	\$4,472.81	\$111,820.26	\$55,679.95	\$55,342.50	\$4,625.94	\$115,648.39	\$3,675.00	\$0.00	\$153.13	\$3,828.13	3.3% (0.0% 0	.1% 3	24%
2,500	200	1,250,000	\$86,594.95	\$92,237.50	\$7,451.35	\$186,283.80	\$92,719.95	\$92,237.50	\$7,706.56	\$192,664.01	\$6,125.00	\$0.00	\$255.21	\$6,380.21	3.3% (0.0%	.1% 3	4%
5,000	200	2,500,000	\$173,069.95	\$184,475.00	\$14,897.71	\$372,442.66	\$185,319.95	\$184,475.00	\$15,408.12	\$385,203.07	\$12,250.00	\$0.00	\$510.41 \$12,760.41	12,760.41	3.3% (0.0% 0	.1% 3	24.8%
7,500	200	3,750,000	\$259,544.95	\$276,712.50	\$22,344.06	\$558,601.51	\$277,919.95	\$276,712.50	\$23,109.69	\$577,742.14	\$18,375.00	\$0.00	\$765.63 \$19,140.63	19,140.63	3.3% (0.0% 0	.1% 3	4%
10,000	200	5,000,000	\$346,019.95	\$368,950.00	\$29,790.42	\$744,760.37	\$370,519.95	\$368,950.00		\$770,281.20	\$24,500.00	\$ 00.00	\$1,020.83 \$25,520.83	25,520.83	3.3% (0.0% 0	.1% 3	84.
20,000	200	10,000,000	\$691,919.95	\$737,900.00	\$59,575.84	\$1,489,395.79	\$740,919.95	\$737,900.00	\$61,617.50	\$1,540,437.45	\$49,000.00	\$0.00		\$51,041.66	3.3% (0.0% 0	.1% 3	.4%
200	009	120,000	\$7,993.15	\$8,854.80	\$702.00	\$17,549.95	\$8,581.15	\$8,854.80	\$726.50	\$18,162.45	\$588.00	\$0.00		\$612.50	3.4% (0.0% 0	.1% 3	.5%
750	009	450,000	\$29,644.45	\$33,205.50	\$2,618.75	\$65,468.70	\$31,849.45	\$33,205.50	\$2,710.62	\$67,765.57	\$2,205.00	\$0.00		\$2,296.87	3.4% (0.0%	.1% 3	2%
1,000	009	900,000	\$39,485.95	\$44,274.00	\$3,490.00	\$87,249.95	\$42,425.95	\$44,274.00	\$3,612.50	\$90,312.45	\$2,940.00	\$0.00		\$3,062.50	3.4% (0.0% 0	.1% 3	2%
1,500	009	000'006	\$59,168.95	\$66,411.00	\$5,232.50	\$130,812.45	\$63,578.95	\$66,411.00	\$5,416.25	\$135,406.20	\$4,410.00	\$0.00		\$4,593.75	3.4% (0.0%	.1% 3	2%
2,500	009	1,500,000	\$98,534.95	\$110,685.00	\$8,717.50	\$217,937.45	\$105,884.95	\$110,685.00	\$9,023.75	\$225,593.70	\$7,350.00	\$0.00	\$306.25	\$7,656.25	3.4% (0.0%	.1% 3	2%
5,000	009	3,000,000	\$196,949.95	\$221,370.00	\$17,430.00	\$435,749.95	\$211,649.95	\$221,370.00	\$18,042.50	\$451,062.45	\$14,700.00	\$0.00	\$612.50 \$15,312.50	15,312.50	3.4% (0.0% 0	.1% 3	2%
7,500	009	4,500,000	\$295,364.95	\$332,055.00	\$26,142.50	\$653,562.45	\$317,414.95	\$332,055.00	\$27,061.25	\$676,531.20	\$22,050.00			22,968.75	3.4% (0.0%	.1% 3	2%
10,000	009	9000,000,9	\$393,779.95	\$442,740.00	\$34,855.00	\$871,374.95	\$423,179.95	\$442,740.00		\$601,999.95	\$29,400.00			\$30,625.00	3.4% (0.0%	.1% 3	2%
20,000	009	12,000,000	\$787,439.95	\$885,480.00	\$69,705.00	\$1,742,624.95	\$846,239.95	\$885,480.00	\$72,155.00	\$1,803,874.95	\$58,800,00	\$ 00.08	\$2,450.00 \$	\$61,250.00	3.4% (0.0%	.1% 3	2%
				à	December 1 200	1000		December	COOL 1 Toronto Observed to Observed to Observed to Observed to Observed to	Transca. 1 2000	Ē	Time from the Dill	=					
				lo Li	posed Kines effect.	(o)		ri opose	I Kales errective	January 1, 2022 (p)	3 1	ine iteni on pi	⊒ I					

Line Item on Bill	Customer Charge LIHEAP Enhancement Charge RE Growth Program	Distribution Demand Charge	Distribution Energy Charge	3	Renewable Energy Distribution Charge	Transmission Demand Charge	Transmission Adjustment	Transition Charge	Energy Efficiency Programs	Supply Services Energy Charge	
Proposed Rates effective January 1, 2022 (p)	\$1,100,00 \$0,80 \$267.15	\$5.30 \$0.94	\$0.00430 \$0.00086 \$0.00002 \$0.00018	(5/00/00/5) \$0,000/58 \$0,000/58 \$0,000/58	\$0.00931	\$4.47	\$0.012 64 (\$0.00070) \$0.00034	(\$0,000(74))	\$0.01843	\$0.05946 \$0.00381 \$0.00186 \$0.00186	15,100,00 18,20,002 18,20,002 18,20,002 18,47 19,1008 19,1008 19,47 19,1008 19,47 19,1008
Proposed Rates effective January I, 2021 (o)	\$1,100.00 \$0.80 \$267.15	\$5.30	81100008 8100008 9000008 9000008	(5,100,000) (5,000,000) (5,000,000) (5,000,000) (5,000,000) (5,000,000)	\$0.00931	\$4.47	\$0.012.64 (\$0.00070) \$0.00034	(\$0.00074)	\$0.01353	\$0.05946 \$0.00381 \$0.00186 \$0.00186	46.1107/8 46.110
	(1) Distribution Customer Charge (2) LHEAP Enhancement Charge (3) Renewable Energy Growth Program Charge	 Base Distribution Demand Charge (per kW > 200kW) CapEx Factor Demand Charge (per kW > 200kW) 	(6) Distribution Change (194 Why) (7) Operating & Maintenance Expense Change (8) Operating & Maintenance Expense Reconciliation Factor (9) Caple. Reconciliation Factor (10) Reconce Decoupling Aglammat Factor (10) Reconc	(11) Penson Adjustment Person (22) Storm Fund Repelesishment Factor (13) Arrearage Management Adjustment Factor (14) Performance Incardior Factor (15) Low Income Discount Recovery Factor (15) Low Income Discount Recovery	(16) Long-term Contracting for Renewable Energy Charge (17) Net Metering Charge	(18) Transmission Dennand Charge	(19) Bree Transmission Charge (20) Transmission Adjustmen Factor (21) Transmission Uncollectible Factor	(22) Base Transition Charge (23) Transition Adjustment	(24) Energy Efficiency Program Charge	(25) Standard Offer Service Base Charge (26) SOS Adjament Factor (27) SOS Administrative Cost Adjustmen Factor (27) SOS Administrative Cost Adjustmen Factor (28) Renewable Energy Standard Charge	(29) Care from on Bill (29) Care Hill-Per Bandwarent Change (30) Hill-Per Bandwarent Change (31) Ref Cononly Program and (32) Transmisson Adjustment Change (33) Davishbeiron Benery Change (34) Transmisson Davishbeiron Benery Change (35) Transmisson Davish Change (36) Transmisson Davis Davishbeiron Change (37) Supply Services Erragy Change (37) Supply Services Erragy Change

The Narragansett Electric Company Calculation of Monthly Typical Bill Total Bill Impact of Proposed Rates Applicable to A-16 Rate Customers

The Narragansett Electric Company
db/a National Grid
RPUCI Docket 5076
Attachment 1-37 (3)
Base Case Year 3
Page 1 of 6

	Pro	nosed Rates effe	Proposed Rates effective January 1, 2022	2022	Pro	Proposed Rates effective January 1, 2023	tive January 1.	2023		S Increase (Decrease)	(Decrease)			Increase (Decrease) % of Total Bill	9 % of Total Bill		Percentage
Monthly	Delivery	Supply			Delivery	Supply			Delivery	Supply			Delivery	Supply			of Customers
kWh (a)	Services (b)	Services (c)	GET (d)	Total $(e) = (a) + (b) + (c)$	Services (f)	Services (g)	GET (h)	Total (i) = $(f) + (g) + (h)$	_	3	GET $(1) = (h) - (d)$ (Total $(m) = (j) + (k) + (l)$	Services $(n) = (j) / (e)$	<u>ම</u>	GET $(p) = (h) / (e)$ (Total (q) = (m) / (e)	Œ
150	\$26.53	\$15.56	\$1.75	\$43.84	\$26.83	\$15.56	\$1.77	\$44.16	\$0.30	\$0.00	\$0.02	\$0.32	0.7%	0:0%	%0.0	0.7%	30.1%
300	\$44.10	\$31.11	\$3.13	\$78.34	\$44.70	\$31.11	\$3.16	\$78.97	\$0.60	\$0.00	\$0.03	\$0.63	0.8%	0.0%	0.0%	0.8%	12.9%
400	\$55.81	\$41.48	\$4.05	\$101.34	\$56.61	\$41.48	\$4.09	\$102.18	\$0.80	\$0.00	\$0.04	\$0.84	0.8%	0.0%	0.0%	0.8%	11.6%
200	\$67.52	\$51.85	\$4.97	\$124.34	\$68.52	\$51.85	\$5.02	\$125.39	\$1.00	\$0.00	\$0.05	\$1.05	0.8%	0.0%	0.0%	0.8%	%9.6
009	\$79.23	\$62.22	\$5.89	\$147.34	\$80.43	\$62.22	\$5.94	\$148.59	\$1.20	\$0.00	\$0.05	\$1.25	0.8%	0.0%	0.0%	0.8%	7.7%
700	\$90.94	\$72.59	\$6.81	\$170.34	\$92.34	\$72.59	\$6.87	\$171.80	\$1.40	\$0.00	\$0.06	\$1.46	0.8%	0.0%	0.0%	0.9%	19.0%
1,200	\$149.50	\$124.44	\$11.41	\$285.35	\$151.90	\$124.44	\$11.51	\$287.85	\$2.40	\$0.00	\$0.10	\$2.50	0.8%	0.0%	0.0%	0.9%	6.8%
2,000	\$243.20	\$207.40	\$18.78	\$469.38	\$247.20	\$207.40	\$18.94	\$473.54	\$4.00	\$0.00	\$0.16	\$4.16	0.9%	0.0%	0.0%	0.9%	2.3%
		Decor	ocad Dates affact	Pronocad Datas affactives Immore 1 2002		Decoro	ad Dotae affacti	Proposed Dates affective Innuew 1 2023	-	I ina Itam on Bill							
		Mari	Osca Mates eller	(s)		00011	sea mates entern	(1)	1	III III III III III							
(1) Distribution Customer Charge									ō	Customer Charge							
(2) LIHEAP Enhancement Charge				\$0.80				\$0.80	7	LIHEAP Enhancement Charge	nent Charge						
(3) Renewable Energy Growth Program Charge	gram Charge			\$2.16				\$2.16	R	RE Growth Program	m						
				\$0.04580				\$0.04580									
	nse Charge			\$0.00212				\$0.00212									
(6) Operating & Maintenance Expense Reconciliation Factor	nse Reconciliation	Factor		\$0.00002				\$0.00002									
				\$0.00396				\$0.00396									
				\$0.00090				\$0,00090			1						
	nt Factor			\$0.00118				\$0.00118	Ω	Distribution Energy Charge	/ Charge						
(10) Pension Adjustment Factor				(\$0.00073)				(\$0.00073)									
(11) Storm Fund Replenishment Factor	tor			\$0.00288				\$0.00288									
(12) Arrearage Management Adjustment Factor	nent Factor			\$0.00015				\$0.00015									
(13) Performance Incentive Factor				\$0.00005				\$0.00005									
(14) Low Income Discount Recovery Factor	/ Factor			\$0.00176				\$0.00176									
(15) Long-term Contracting for Renewable Energy Charge	ewable Energy Char	as		\$0.00931				\$0.00931	Ä	Renewable Energy Distribution Charge	Distribution Ch	arge					
(16) Net Metering Charge				\$0.00266				\$0.00266									
(17) Base Transmission Charge				\$0.03096				\$0.03096	É								
(18) Transmission Adjustment Factor	_			(\$0.00189)				(\$0.00189)	П	ansmission char	D D						
(20) Base Transition Charge	101			\$0.00038				\$0.00038									
(21) Transition Adjustment				(\$0.00008)				(\$0.00008)	Ę.	Transition Charge							
(22) Energy Efficiency Program Charge	rge			\$0.01843				\$0.02043	ū	Energy Efficiency Programs	rograms						
(23) Standard Offer Service Base Charge	large			\$0.09568				\$0.09568									
(24) SOS Adjustment Factor				(\$0.00294)				(\$0.00294)	S	Supply Services Energy Charge	ergy Charge						
(25) SOS Adminstrative Cost Adjustment Factor (26) Renewable Energy Standard Charge	tment Factor arge			\$0.00230				\$0.00230									
	b																
				\$6.00				\$6.00									
				\$0.80				\$0.80									
(29) RE Growth Program				\$2.16				\$2.16									
(30) Transmission Charge			kWh x	\$0.02945				\$0.02945									
(31) Distribution Energy Charge (32) Transition Charge			kwh x	\$0.03809				(\$0.00082)									
(33) Energy Efficiency Programs			kWh x	\$0.01843				\$0.02043									
(34) Renewable Energy Distribution Charge	Charge		kWh x	\$0.01197	1		I	\$0.01197									
(35) Supply Services Energy Charge			kWh x	\$0.10370				\$0.10370									

Column (s): All lines except Line (22) per Summany of Retail Delivery Service Rates, R.1.P.U.C. 2095 effective 10/1/2020, and Summany of Rates Standard Offer Service tariff, R.1.P.U.C. No. 2096, effective 10/1/2020; Line (22) Per Docket 5076, Schedule A, Line (17), Yart 2022 (Base spage 144); + 50.00030 for trenewables change Column (s). All lines except Line (22) Per Summany of Rates Standard Offer Service tariff, R.1.P.U.C. No. 2096, effective 10/1/2020; Line (22) Per Docket 5076, Schedule A, Line (17), Year 2023 (Bates page 148); + 50.00030 for trenewables change

The Narragansett Electric Company Calculation of Monthly Typical Bill Total Bill Impact of Proposed Rates Applicable to A-60 Rate Customers

		Propo	sed Rates effectiv	Proposed Rates effective January 1, 2022	22	l		Propose	d Rates effective	Proposed Rates effective January 1, 2023				\$ Increase (Decrease)	rease)	ŀ	Increase	Increase (Decrease) % of Total Bill	of Total Bill	Per	Percentage
Monthly kWh	Delivery Services	Supply Services	Low Income Discounted Discount Total	Discounted Total	GET	Total	Delivery Services	Supply L Services	Low Income Discounted Discount Total	Discounted Total	GET	Total		Supply Services				Supply Services		Total	of Customers
(a)	(P)		(d) = [(b)+(c)] $(e) = (b) + (c)x25$ + (d)	(e) = (b) + (c) + (d)	9	(g) = (e) + (f)			(j) = [(h)+(i)] (k) = (h) + (i) x25 + (j)	(1) = (1) + (1) + (1)	(E)	(m) = (k) + (l)	÷	÷	(b) - (l) = (d)	(q) = (n) + (o) + (p)		ા	(t) = (b) ÷ (d) = (t)	(g) ÷ (p) = (u)	3
150	\$26.26	\$15.56	(\$10.46)	\$31.36	\$1.31	\$32.67	\$26.56	\$15.56	(\$10.53)	\$31.59	\$1.32	\$32.91	\$0.23	80.00	\$0.01	\$0.24	0.7%	0.0%	%0.0	0.7%	32.1%
300	\$43.57	\$31.11	(\$18.67)	\$56.01	\$2.33	\$58.34	\$44.17	\$31.11	(\$18.82)	\$56.46	\$2.35	\$58.81	\$0.45	80.00	\$0.02	\$0.47	0.8%	0.0%	%0.0	98.0	15.4%
400	\$55.10	\$41.48	(\$24.15)	\$72.43	\$3.02	\$75.45	855.90	\$41.48	(\$24.35)	\$73.03	\$3.04	\$76.07	80.60	80.00	\$0.02	\$0.62	0.8%	0.0%	%0.0	98.0	12.5%
200	\$66.64	\$51.85	(\$29.62)	\$88.87	\$3.70	\$92.57	\$67.64	\$51.85	(\$29.87)	\$89.62	\$3.73	\$93.35	\$0.75	80.00	\$0.03	80.78	0.8%	%0.0	%0.0	98.0	%9'6
009	\$78.18	\$62.22	(\$35.10)	\$105.30	\$4.39	\$109.69	\$79.38	\$62.22	(\$35.40)	\$106.20	\$4.43	\$110.63	\$0.90	80.00	\$0.04	\$0.94	0.8%	0.0%	%0'0	%6.0	7.2%
700	17:688	\$72.59	(\$40.58)	\$121.72	\$5.07	\$126.79	\$91.11	\$72.59	(\$40.93)	\$122.77	\$5.12	\$127.89	\$1.05	\$0.00	\$0.05	\$1.10	0.8%	0.0%	%0.0	%6.0	16.4%
1,200	\$147.39	\$124.44	(\$67.96)	\$203.87	\$8.49	\$212.36	\$149.79	\$124.44	(\$68.56)	\$205.67	\$8.57	\$214.24	\$1.80	\$0.00	80.08	\$1.88	0.8%	%0.0	%0.0	%6.0	5.2%
2,000	\$239.68	\$207.40	(\$111.77)	\$335.31	\$13.97	\$349.28	\$243.68	\$207.40	(\$112.77)	\$338.31	\$14.10	\$352.41	\$3.00	80.00	\$0.13	\$3.13	0.9%	0.0%	%0'0	96.0	1.6%
				Proposed Ra	Proposed Rates effective January 1, 2022	mary 1, 2022				Proposed Rate	Proposed Rates effective January 1, 2023	ary 1, 2023	Linc	Line Item on Bill							
:						(w)						(x)		ı							
(1) Distribution Customer Charge						86.00						86.00	Cus	Customer Charge	nt Chorese						
	gram Charge					\$2.16						\$2.16	RE(RE Growth Program	an Charge						
						\$0.04580						\$0.04580)							
	snse Charge					\$0.00212						\$0.00212									
	ense Reconciliation	on Factor				\$0.00002						\$0.00002									
(/) CapEx Factor Charge (8) CapEx Reconciliation Factor						\$0.00390						\$0.00396									
	nt Factor					\$0.00118						\$0.00118	Dist	Distribution Energy Charge	Charge						
(10) Pension Adjustment Factor						(\$0.00073)						(\$0.00073)									
(11) Storm Fund Replenishment Factor	nor					\$0.00288						\$0.00288									
(12) Arrearage Management Adjustment Factor	ment Factor					\$0.00015						\$0.00015									
(13) Performance Incentive Factor						\$0.00005						\$0.00005									
(14) Low from Contracting for Bonomakla Engage Change	y ractor	No. act				\$0.0000						\$0.0000									
(16) Net Metering Charge	ewante Energy C.	liaige				\$0.00266						\$0.00266	Ren	Renewable Energy Distribution Charge	Distribution Cha.	ıge					
(17) Base Transmission Charge						\$0.03096						\$0.03096				Ī					
(18) Transmission Adjustment Factor	JC .					(\$0.00189)						(\$0.00189)	Tra	Transmission Charge	e						
(19) Transmission Uncollectible Factor	ctor					\$0.00038						\$0.00038									
(20) Base Transition Charge (21) Transition Adjustment						(\$0.000/4)						(\$0.000/4)	Tra	Transition Charge							
(22) Energy Efficiency Program Charge	nge					\$0.01843						\$0.02043	Ener	Energy Efficiency Programs	ograms						
(23) Standard Offer Service Base Charge	harge					\$0.09568						\$0.09568									
(24) SOS Adjustment Factor						(\$0.00294)						(\$0.00294)	Sup	Supply Services Energy Charge	rgy Charge						
(26) Renewable Energy Standard Charge	narge					\$0.00230						\$0.00230									
Line Item on Bill																					
(27) Customer Charge						\$6.00						\$6.00									
(28) LIHEAP Enhancement Charge (29) RF Growth Program						\$0.80						\$0.80									
(30) Transmission Charge						\$0.02945						\$0.02945									
(31) Distribution Energy Charge (32) Transition Charge						\$0.05633						\$0.05633									
	Ę					\$0.01843						\$0.02043									
(35) Supply Services Energy Charge (35) Supply Services Energy Charge	Charge					\$0.01197						\$0.10370									
(36) Discount percentage						25%						25%									

Column (w) All lines except Line (22) per Summany of Renail Delivery Service Rates, R.I.P.U.C. 2095 effective 1071/2020, and Summany of Rates Standard Offer Service untif, R.I.P.U.C. No. 2096, effective 1071/2020, and Summany of Rates Standard Offer Service untif, R.I.P.U.C. No. 2096, effective 1071/2020, and Summany of Rates Standard Offer Service untif, R.I.P.U.C. No. 2096, effective 1071/2020, and Summany of Rates Standard Offer Service untif, R.I.P.U.C. No. 2096, effective 1071/2020, and Summany of Rates Standard Offer Service untif, R.I.P.U.C. No. 2096, effective 1071/2020, and Summany of Rates Standard Offer Service untif, R.I.P.U.C. No. 2096, effective 1071/2020, and Summany of Rates Standard Offer Service untif, R.I.P.U.C. No. 2096, effective 1071/2020, Line (22) Per Docket 5076, Schedule A, Line (17), Year 2023 (Bates page 148) + 80.00030 for renewables charge

The Narragansett Electric Company Calculation of Monthly Typical Bill Total Bill Impact of Proposed Rates Applicable to A-60 Rate Customers

Column C			Proc	Proposed Rates effective January 1.		2022			Propo	sed Rates effecti	Proposed Rates effective January 1, 2023	3			\$ Increase (Decrease)	crease)		Incre	Increase (Decrease) % of Total Bil	% of Total Bill		Percentage
String Chapter Table Strong S	Monthly	Delivery	VladuS	Low Income				Delivery	AldanS	Low Income	Discounted				Supply				Supply		0	Customers
18.14 1.0 1.		Services	Services	Discount	Total	GET	Total	Services		Discount	Total	ŒŢ			Services				Services	GET		
10 11 11 12 12 13 13 13 13	(a)	(p)	(c)	(a) = [(b) + (c)] x30	(e) = (b) + (c) + (d)		(g) = (e) + (f)	(h)		(y) = [(n) + (y)] x30	(K) = (B) + (B) + (B) + (B)										(g) ÷ (b) = ((v)
1 1 1 1 1 1 1 1 1 1	150	\$26.26	\$15.56	(\$12.55)	\$29.27	\$1.22	\$30.49	\$26.56	\$15.56	(\$12.64)	\$29.48	\$1.23	\$30.71	\$0.21	\$0.00	\$0.01	\$0.22	0.7%	%0.0	%0.0	0.7%	32.1%
1 1 1 1 1 1 1 1 1 1	300	\$43.57	\$31.11	(\$22.40)	\$52.28	\$2.18	\$54.46	\$44.17	\$31.11	(\$22.58)	\$52.70	\$2.20	\$54.90	\$0.42	80.00	\$0.02	\$0.44	0.8%	0.0%	0.0%	0.8%	15.4%
1, 12, 12, 12, 12, 12, 12, 12, 12, 12,	400	\$55.10	\$41.48	(\$28.97)	\$67.61	\$2.82	\$70.43	\$55.90	\$41.48	(\$29.21)	\$68.17	\$2.84	\$71.01	\$0.56	80.00	\$0.02	\$0.58	0.8%	0.0%	0.0%	0.8%	12.5%
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	200	\$66.64	\$51.85	(\$35.55)	\$82.94	\$3.46	\$86.40	\$67.64	\$51.85	(\$35.85)	\$83.64	\$3.49	\$87.13	\$0.70	80.00	\$0.03	\$0.73	%8'0	0.0%	0.0%	%8.0	%9'6
1 1 1 1 1 1 1 1 1 1	009	\$78.18	\$62.22	(\$42.12)	\$98.28	\$4.10	\$102.38	\$79.38	\$62.22	(\$42.48)	\$99.12	\$4.13	\$103.25	\$0.84	80.00	\$0.03	\$0.87	0.8%	0.0%	0.0%	%8.0	7.2%
No.	700	\$89.71	\$72.59		\$113.61	\$4.73	\$118.34	\$91.11	\$72.59	(\$49.11)	\$114.59	TT.73	\$119.36	80.98	80.00	\$0.04	\$1.02	0.8%	0.0%	0.0%	%6:0	16.4%
Strong Particle	1,200	\$147.39	\$124.44		\$190.28	\$7.93	\$198.21	\$149.79	\$124.44	(\$82.27)	\$191.96	88.00	\$199.96	\$1.68	80.00	\$0.07	\$1.75	0.8%	0.0%	0.0%	%6.0	5.2%
Proposed Rates effective January 1, 2022 S6.00 S0.00	2,000	\$239.68	\$207.40	(\$134.12)	\$312.96	\$13.04	\$326.00	\$243.68	\$207.40	(\$135.32)	\$315.76	\$13.16	\$328.92	\$2.80	80.00	\$0.12	\$2.92	%6'0	0.0%	0.0%	0.9%	1.6%
Charge Control					Proposed R.	ates effective Ja	3nuary 1, 2022				Proposed Ra	tes effective Jai	nuary 1, 2023	:5	ne Item on Bill							
S1860 S186							(w)				,		(X)	l								
Stoke Stok	Distribution Customer Charg	že					\$6.00						\$6.00	Ö	stomer Charge							
Stille S		añ.					80.80						\$0.80		TEAP Enhancem	ent Charge						
St004580 St004580 St004280		Program Charge					\$2.16						\$2.16	RE	Growth Program	,						
SOUGEST SOUGEST		<u>-</u>					\$0.04580						\$0.04580									
SU00002	Operating & Maintenance E.	xpense Charge	1				\$0.00212						\$0.00212									
SOUGONO SOUGONO SOUGONO SOUGONO SOUGONO SOUGONO	Operating & Maintenance E.	xpense Reconciliati	ion Factor				\$0.0002						\$0.00002									
SCHOOLS SCHOOLS	CapEx Factor Charge ConEx Paconciliation Factor						\$0.00396						\$0.00396									
\$6,00,007.5 \$6,00,007.5	Revenue Decoupling Adjusti	ment Factor					\$0.0000						\$0.0000	Ö	stribution Energy	Charge						
S0,00288 S0,00288 S0,00288 S0,00288 S0,00015 S0,000015 S0,000015 S0,000015 S0,000015 S0,000005 S0,0000005 S0,0000000 S0,0000000 S0,0000000000	Pension Adjustment Factor						(\$0.00073)						(\$0.00073)	i	ó	9						
S000015 S000005 S000005	Storm Fund Replenishment	Factor					\$0.00288						\$0.00288									
\$10,00005 \$10,00005 \$10,00000) Arrearage Management Adju	1stment Factor					\$0.00015						\$0.00015									
SOUGNOO SOUGNOO SOUGNOO SOUGNOO) Performance Incentive Facto	н					\$0.00005						\$0.00005									
y Charge \$0.00931 \$0.00931 y Charge \$0.00366 \$0.00936 \$0.0396 \$0.0396 \$0.00189 \$0.00189 \$0.00189 \$0.00189 \$0.000189 \$0.00189 \$0.00189 \$0.000189 \$0.00189 \$0.00189 \$0.000189 \$0.00189 \$0.00189 \$0.000180 \$0.00189 \$0.00189 \$0.000291 \$0.00294 \$0.00294 \$0.00292 \$0.00294 \$0.00294 \$0.00294 \$0.00294 \$0.00294 \$0.00866 \$0.00866 \$0.00866 \$0.00866 \$0.00866 \$0.00294 \$0.00867 \$0.00866 \$0.00294 \$0.00868 \$0.00866 \$0.00294 \$0.00868 \$0.00866 \$0.00294 \$0.00869 \$0.00866 \$0.00866 \$0.00869 \$0.00866 \$0.00866 \$0.00869 \$0.00866 \$0.00866 \$0.00869 \$0.00866 \$0.00866 \$0.00869 \$0.00866 \$0.00866	Low Income Discount Recov	ery Factor					\$0.00000						\$0.0000									
\$10,000.00 \$10) Long-term Contracting for R	enewable Energy C	harge				\$0.00931						\$0.00931	В	newahle Energy l	Dietribution Che	and					
\$0.03096 \$0.00089) Net Metering Charge						\$0.00266						\$0.00266	8	Simulation and St.		200					
\$0.00038 \$0.000038 \$0.000038 \$0.000038 \$0.000038 \$0.000038 \$0.000038 \$0.000034 \$0.000034 \$0.000034 \$0.000034 \$0.000034 \$0.000034 \$0.000034 \$0.000034 \$0.000034 \$0.000034 \$0.000034 \$0.000034 \$0.000034 \$0.000034 \$0.000034 \$0.000034 \$0.000034 \$0.000034 \$0.000034 \$0.000) Base Transmission Charge						\$0.03096						\$0.03096									
\$50,00038 \$50,00038 \$50,000049 \$50,000049 \$50,000049 \$50,000049 \$50,000049 \$50,000049 \$50,000049 \$50,000049 \$50,000049 \$50,000049 \$50,000049 \$50,000049 \$50,000049 \$50,000049 \$50,000049 \$50,000049 \$50,000049 \$50,000049 \$50,000049 \$50,000049 \$50,000049 \$50,000049 \$50,000049 \$50,000049 \$50,000049 \$50,000049 \$50,000049 \$50,000049 \$50,000049 \$50,000049 \$50,000049 \$50,00049 \$50,00049) Transmission Adjustment Fa	tctor					(\$0.00189)						(\$0.00189)	Ë	ansmission Charg	še						
(\$0,00000) (\$0,000000) (\$0,000000) (\$0,000000) (\$0,0000000) (\$0,0000000) (\$0,0000000) (\$0,0000000) (\$0,0000000) (\$0,0000000) (\$0,0000000) (\$0,0000000) (\$0,0000000) (\$0,0000000) (\$0,0000000) (\$0,0000000) (\$0,0000000) (\$0,000000) (\$0,000000) (\$0,000000) (\$0,000000) (\$0,000000) (\$0,000000) (\$0,000000) (\$0,000000) (\$0,000000) (\$0,00000) (\$0,00000) (\$0,00000) (\$0,00000) (\$0,00000) (\$0,00000) (\$0,00000) (\$0,00000) (\$0,00000) (\$0,00000) (\$0,0000) (\$0,0000) (\$0,0000) (\$0,0000) (\$0,0000) (\$0,0000) (\$0,0000) (\$0,0000) (\$0,000) () Transmission Uncollectible .	Factor					\$0.00038						\$0.00038									
\$0,000,000,000,000,000,000,000,000,000,) Base Transition Charge						(\$0.00074)						(\$0.00074)	Ą	ansition Charge							
Seconds Seconds Seconds	Free Triciency Program	haroe					\$0.00000						\$0.00008)	Fin	aray Efficiency P	rograms						
\$10,000.00.00.00.00.00.00.00.00.00.00.00.0	Standard Offer Service Base	Charge					8000588						80005	i	Carronal Carro	o Principal	Î					
\$200023 \$200008 \$200	SOS Adjustment Factor	9					(\$0.00294)						(\$0.00294)	å	andr. Comison En	5						
\$0,008 \$6,00 \$6,00 \$1,00) SOS Adminstrative Cost Ad,	justment Factor					\$0.00230						\$0.00230	ž	appry services on	ergy citalge						
\$600 \$0.80 \$2.16 \$0.02945 \$0.005633 \$0.01082) \$0.01197 \$0.1197	 Renewable Energy Standard 	Charge					\$0.00866						\$0.00866									
\$600 \$0.80 \$0.0245 \$0.02545 \$0.02545 \$0.00563 \$0.0079 \$0.0079 \$0.0079	Line Item on Bill																					
\$2.16 \$2.16 \$0.02945 \$0.01943 \$0.01947 \$0.01947) Customer Charge						\$6.00						\$6.00									
\$0.02945 \$0.000823 \$0.00197 \$0.01087	() LIHEAP Enhancement Chai	e S.					\$0.80						\$0.80									
S0000823 S0010823 S001197 S011057 S011057) Transmission Charge						\$0.02945						\$0.02945									
(S0.00082) (S0.01943) (S0.01970 (S0.01970 (S0.01070 (S0.) Distribution Energy Charge						\$0.05633						\$0.05633									
Charge 80.01070 80.01070 80.0070) Transition Charge					_	(\$0.00082)					L	(\$0.00082)									
\$0.10370	Renewable Energy Distribut	ion Charge				_	\$0.01197						\$0.01197									
	5) Supply Services Energy Cha	rge					\$0.10370						\$0.10370									

Column (w) All lines except Line (22) per Summany of Renail Delivery Service Rates, R.I.P.U.C. 2095 effective 1071/2020, and Summany of Rates Standard Offer Service untif, R.I.P.U.C. No. 2096, effective 1071/2020, and Summany of Rates Standard Offer Service untif, R.I.P.U.C. No. 2096, effective 1071/2020, and Summany of Rates Standard Offer Service untif, R.I.P.U.C. No. 2096, effective 1071/2020, and Summany of Rates Standard Offer Service untif, R.I.P.U.C. No. 2096, effective 1071/2020, and Summany of Rates Standard Offer Service untif, R.I.P.U.C. No. 2096, effective 1071/2020, and Summany of Rates Standard Offer Service untif, R.I.P.U.C. No. 2096, effective 1071/2020, and Summany of Rates Standard Offer Service untif, R.I.P.U.C. No. 2096, effective 1071/2020, Line (22) Per Docket 5076, Schedule A, Line (17), Year 2023 (Bates page 148) + 80.00030 for renewables charge

The Narragansett Electric Company Calculation of Monthly Typical Bill Total Bill Impact of Proposed Rates Applicable to C-06 Rate Customers

The Narragansett Electric Company
4/b5 Maional Grid
RIPUC Docket 8076
Attachment 1-37 (3)
Base Case Year 3

Page 4 of 6

16.9% 8.1% 5.0%

0.8%

0.0%

%6.0

0.0%

0.0%

Percentage of Customers

Total (m)

CHECKEY Total Services Se		Propo	Proposed Rates effective J	e January 1, 2022	2	Propos	Proposed Rates effective January 1, 2023	e January 1, 202	3		\$ Increase (Decrease)	(ecrease)		In	Increase (Decrease) % of To) % of T
1, 10, 10, 10, 10, 10, 10, 10, 10, 10,	Monthly	Delivery	Supply			Delivery	Supply			Delivery	Supply				Supply	
200 512.53 512.14 <th>kWh (a)</th> <th>Services (b)</th> <th>Services (c)</th> <th>GET (d)</th> <th>Total (e)</th> <th>Services (b)</th> <th>Services (c)</th> <th>GET (d)</th> <th>Total (e)</th> <th>Services (f)</th> <th>Services (g)</th> <th>GET (h)</th> <th>Total (i)</th> <th>Services (j)</th> <th>Services (k)</th> <th><u> </u></th>	kWh (a)	Services (b)	Services (c)	GET (d)	Total (e)	Services (b)	Services (c)	GET (d)	Total (e)	Services (f)	Services (g)	GET (h)	Total (i)	Services (j)	Services (k)	<u> </u>
1,000 2,100 5,10	250	\$42.35	\$23.34	\$2.74	\$68.43	\$42.85	\$23.34	\$2.76	\$68.95	\$0.50	\$0.00	\$0.02	\$0.52	0.7%	0.0%	
1,000 1,10	200	\$70.56	\$46.67	\$4.88	\$122.11	\$71.56	\$46.67	\$4.93	\$123.16	\$1.00	\$0.00	\$0.05	\$1.05	0.8%	0.0%	
1500 2818.77 1810.01 1814.71 1828.81 1818.01 1814.01	1,000	\$126.96	\$93.34	\$9.18	\$229.48	\$128.96	\$93.34	\$9.26	\$231.56	\$2.00	\$0.00	\$0.08	\$2.08	0.9%	0.0%	
2000 CSTOPT STROOK STOTT SHALED 1,500	\$183.37	\$140.01	\$13.47	\$336.85	\$186.37	\$140.01	\$13.60	\$339.98	\$3.00	\$0.00	\$0.13	\$3.13	0.9%	0.0%		
Distribution Customer Charge S1000 2,000	\$239.77	\$186.68	\$17.77	\$444.22	\$243.77	\$186.68	\$17.94	\$448.39	\$4.00	\$0.00	\$0.17	\$4.17	0.9%	0.0%		
100 101 101 102 103			Proposed R	ates effective Jar	mary 1, 2022		Proposed Ra	ates effective Jar	mary 1, 2023	i	ine Item on Bill					
Distribution Customer Charge \$10.00 \$10.00 \$10.00 Distribution Customer Charge \$0.88 \$10.00 \$10.00 Buttle-Pot Buttweement Charge \$0.00 \$0.00 \$0.00 Bustrabution Charge (per VM) \$0.00 \$0.00 \$0.00 Destribution Charge (per VM) \$0.00 \$0.00 \$0.00 Destribution Charge (per VM) \$0.00 \$0.00 \$0.00 Operating & Maincanne Expense Reconcilation Factor \$0.00 \$0.00 \$0.00 Capt F. Factor Charge \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 Even Charge Charge \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 Revenue Docoupling Ablastment Factor \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 Revenue Docoupling Adjustment Factor \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00					(0)				(d)							
LIHEAP Enhancement Change \$18.80 \$18.90 Remeable Energy Crowth Program Change \$10.482 \$10.482 Destruction Change (per Nth) \$10.0422 \$10.00212 Operating & Natineanne Expense Change \$10.0022 \$10.00212 Operating & Maintenanc Expense Reconclination Factor \$10.0033 \$10.0033 Capte Reconclination Factor \$10.00035 \$10.00035 Revenue Decorpting Adjustment Factor \$10.00038 \$10.00035 Revenue Decorpting Adjustment Factor \$10.00038 \$10.00038 Pention Adjustment Factor \$10.00038 \$10.00038 Revenue Decorpting Adjustment Factor \$10.00038 \$10.00038 Performance Incentive Factor \$10.00036 \$10.00036 \$10.00038 Non Fluid Replacement Adjustment Factor \$10.00036 \$10.00036 \$10.00036 Non Metering Change \$10.00046 \$10.00031 \$10.00031 \$10.00031 Non Metering Change \$10.00040 \$10.00040 \$10.00041 \$10.00041 Non Metering Change \$10.00040 \$10.00041 \$10.00041 \$10.00041					\$10.00				\$10.00	ŭ	ustomer Charge					
Standard Details of Sta					\$0.80				\$0.80		IHEAP Enhancen	nent Charge				
Description Change (per kWh) \$0.01442 \$0.01442 \$0.01442 \$0.01442 \$0.01442 \$0.01442 \$0.01442 \$0.00212 \$0.000212 \$0.000212 \$0.00022 \$0.00002 <th< td=""><td></td><td>rram Charge</td><td></td><td></td><td>\$3.35</td><td></td><td></td><td></td><td>\$3.35</td><td>R</td><td>E Growth Progra.</td><td>u.</td><td></td><td></td><td></td><td></td></th<>		rram Charge			\$3.35				\$3.35	R	E Growth Progra.	u.				
Operating & Maintenance Expense Charge \$0.00212 \$0.00212 Operating & Maintenance Expense Reconcilation Factor \$0.00035 \$0.00032 Operating & Maintenance Expense Reconcilation Factor \$0.00035 \$0.00035 CapEx Recordination Factor \$0.00018 \$0.00035 Revenue Decoupling Adjustment Factor \$0.00018 \$0.00018 Storm Fund Repleaishment Factor \$0.00015 \$0.00015 Arceriage Management Adjustment Factor \$0.00016 \$0.00015 Arceriage Management Adjustment Factor \$0.00016 \$0.00015 Arceriage Management Adjustment Factor \$0.00016 \$0.00016 Low Income Discount Recovery Factor \$0.00016 \$0.00016 Long-Lenc Contracting Factor \$0.00016 \$0.00016 Long-Lenc Contracting Factor \$0.00016 \$0.00016 Base Transmiston Charge \$0.000176 \$0.00016 Base Transition Charge \$0.00018 \$0.00017 Soo Adjustment Factor \$0.00018 \$0.00018 Line Item on Bill \$0.00018 \$0.00018 Soo Adjustment Factor \$0.00086 \$0.00018 </td <td></td> <td></td> <td></td> <td></td> <td>\$0.04482</td> <td></td> <td></td> <td></td> <td>\$0.04482</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>					\$0.04482				\$0.04482							
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SOS Adjustment Factor \$0.00024 \$0.00024 SOS Adjustment Factor \$0.00224 \$0.00224 Renewable Energy Standard Charge \$0.00866 \$0.00264 Line them on Bill \$10.00 \$10.00 LHEAP Enhancement Charge \$0.80 \$0.80 RE Growth Program \$0.0074 \$0.00674 Stribution Charge \$0.00649 \$0.00674 Substitution Energy Charge \$0.00649 \$0.00674 Transition Charge \$0.00649 \$0.00674 Substitution Charge \$0.00649 \$0.00674 Substitution Charge \$0.00649 \$0.00649 Substitution Charge \$0.00649 \$0.006		arge			\$0.08150				\$0.08150							
Renewable Energy Standard Charge \$0.00866 \$ Line Item on Bill \$10.00 \$10.00 Customer Charge \$0.80 \$0.80 RE Growth Program \$3.33 \$3.35 Transmission Charge \$0.02674 \$ Programsicon Charge \$0.02649 \$ Transition Charge \$0.00649 \$ Energy Efficiency Programs \$0.01843 \$ Sunolv Services Energy Charge \$0.01947 \$ Sunolv Services Energy Charge \$0.09344 \$		ment Factor			\$0.00224				\$0.00224	S	upply Services En	nergy Charge				
Line Item on Bill Customer Charge LIHEAP Enhancement Charge \$0.80 LIHEAP Enhancement Charge \$0.80 KB Growth Program Transmission Charge S0.02674 Distribution Energy Charge S0.00649 Transition Charge S0.0082) Renewable Energy Distribution Charge S0.01843 Sundy Services Energy Distribution Charge S0.01943 Sundy Services Energy Distribution Charge S0.0934 Sundy Services Energy Charge S0.09334 Sundy Services Energy Charge S0.0934		arge			\$0.00866				\$0.00866							
Customer Charge \$10.00	Line Item on Bill															
RE Growth Program \$3.35 State					\$10.00				\$10.00							
Convention Energy Charge					\$0.80				\$0.80							
Substitution Charge Substitution Charge					\$0.02674				\$0.02674							
Transition Charge (\$0.00082)	(31) Distribution Energy Charge				\$0.05649				\$0.05649							
Energy Efficiency Programs				ļ	(\$0.00082)			ļ	(\$0.00082)							
Kenewakin Entey Dentoulon Garge 50.001397 Sunply Services Energy Charge 50.09334					\$0.01843				\$0.02043							
		Charge			\$0.01197				\$0.01197							

Column (o): All lines except Line (22) per Summary of Retail Delivery Service Rates, R.L.P.U.C. 2095 effective 10/1/2020, and Summary of Rates Standard Offer Service tariff, R.L.P.U.C. No. 2096, effective 10/1/2020; Line (22) Per Docket 5076, Schedule A, Line (17), Year 2022 (Bates page 148) + \$0,00030 for renewables charge Column (p): All lines except Line (22) per Summary of Retail Delivery Service Rates, R.L.P.U.C. 2095 effective 10/1/2020, and Summary of Rates Standard Offer Service tariff, R.L.P.U.C. No. 2096, effective 10/1/2020; Line (22) Per Docket 5076, Schedule A, Line (17), Year 2023 (Bates page 148) + \$0,00030 for renewables charge

ne Narragansett Electric Company
d/b/a National Grid
RIPUC Docket 5076
Attachment 1-37 (3)
Base Case Year 3
Base Case Year 3
Pana 5, efe

The Narragansett Electric Company Calculation of Monthly Typical Bill Total Bill Impact of Proposed Rates Applicable to G-02 Rate Customers

tal Bill		Total	(m)	%6'0 %0'0	%6.0 %0.0	0.0% 1.0%	0.0% 1.0%	0.0% 1.0%	0.0% 1.0%	0.0% 1.1%	0.0% 1.1%	0.0% 1.1%	0.0% 1.1%	0.0% 1.1%	0.0% 1.1%	0.0% 1.1%	0.0% 1.2%	0.0% 1.2%	0.0% 1.2%	0.0% 1.2%	0.0% 1.2%	0.0% 1.2%	0.0%
increase (Decrease) % of Total Bil	flc		(I)	%0.0	90.0	%0.0	%0:0	%0:0	%0.0	%0.0	%0.0	%0.0	%0.0	%0.0	0.0%	%0:0	%0.0	%0.0	0.0%	%0:0	90.0	%0.0	%0.0%
Increase	Delivery Supply	ses	(j) (k)	98.0	%6.0	%6.0	96.0	1.0%	1.0%	1.0%	1.0%	1.0%	1.1%	1.1%	1.1%	1.1%	1.1%	1.1%	1.1%	1.1%	1.1%	1.2%	1.2%
		Total	(i)	\$8.33	\$20.84	\$41.66	\$62.50	\$12.50	\$31.25	\$62.50	\$93.75	\$16.67	\$41.66	\$83.34	\$125.00	\$20.84	\$52.08	\$104.17	\$156.25	\$25.00	\$62.50	\$125.00	\$187.50
Decrease)		GET	(h)	\$0.33	\$0.84	\$1.66	\$2.50	\$0.50	\$1.25	\$2.50	\$3.75	80.67	\$1.66	\$3.34	\$5.00	\$0.84	\$2.08	\$4.17	\$6.25	\$1.00	\$2.50	\$5.00	87.50
\$ Increase (Decrease)	Supply	Services	(g)	80.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	80.00
	Delivery	Services	(f)	\$8.00	\$20.00	\$40.00	\$60.00	\$12.00	\$30.00	\$60.00	\$90.00	\$16.00	\$40.00	\$80.00	\$120.00	\$20.00	\$50.00	\$100.00	\$150.00	\$24.00	\$60.00	\$120.00	\$180.00
023		Total	(e)	\$966.07	\$2,259.64	\$4,415.57	\$6,571.51	\$1,269.76	\$3,018.85	\$5,934.01	\$8,849.17	\$1,573.45	\$3,778.07	\$7,452.45	\$11,126.82	\$1,877.14	\$4,537.29	\$8,970.89	\$13,404.48	\$2,180.82	\$5,296.51	\$10,489.32	\$15.682.14
tive January 1, 2		GET	(p)	\$38.64	\$90.39	\$176.62	\$262.86	850.79	\$120.75	\$237.36	\$353.97	\$62.94	\$151.12	\$298.10	\$445.07	875.09	\$181.49	\$358.84	\$536.18	\$87.23	\$211.86	\$419.57	\$627.29
Proposed Rates effective January 1, 2023	Supply	Services	(c)	\$373.36	\$933.40	\$1,866.80	\$2,800.20	\$560.04	\$1,400.10	\$2,800.20	\$4,200.30	\$746.72	\$1,866.80	\$3,733.60	\$5,600.40	\$933.40	\$2,333.50	\$4,667.00	\$7,000.50	\$1,120.08	\$2,800.20	\$5,600.40	\$8.400.60
Pro	Delivery	Services	(p)	\$554.07	\$1,235.85	\$2,372.15	\$3,508.45	\$658.93	\$1,498.00	\$2,896.45	\$4,294.90	\$763.79	\$1,760.15	\$3,420.75	\$5,081.35	\$868.65	\$2,022.30	\$3,945.05	\$5,867.80	\$973.51	\$2,284.45	\$4,469.35	\$6,654.25
2022		Total	(e)	\$957.74	\$2,238.80	\$4,373.91	\$6,509.01	\$1,257.26	\$2,987.60	\$5,871.51	\$8,755.42	\$1,556.78	\$3,736.41	\$7,369.11	\$11,001.82	\$1,856.30	\$4,485.21	\$8,866.72	\$13,248.23	\$2,155.82	\$5,234.01	\$10,364.32	\$15.494.64
ective January 1, 2022		GET	(p)	\$38.31	\$89.55	\$174.96	\$260.36	\$50.29	\$119.50	\$234.86	\$350.22	\$62.27	\$149.46	\$294.76	\$440.07	\$74.25	\$179.41	\$354.67	\$529.93	\$86.23	\$209.36	\$414.57	\$619.79
Proposed Rates effec	Supply	Services	(c)	\$373.36	\$933.40	\$1,866.80	\$2,800.20	\$560.04	\$1,400.10	\$2,800.20	\$4,200.30	\$746.72	\$1,866.80	\$3,733.60	\$5,600.40	\$933.40	\$2,333.50	\$4,667.00	\$7,000.50	\$1,120.08	\$2,800.20	\$5,600.40	\$8.400.60
P	Delivery	Services	(p)	\$546.07	\$1,215.85	\$2,332.15	\$3,448.45	\$646.93	\$1,468.00	\$2,836.45	\$4,204.90	8747.79	\$1,720.15	\$3,340.75	\$4,961.35	\$848.65	\$1,972.30	\$3,845.05	\$5,717.80	\$949.51	\$2,224.45	\$4,349.35	\$6.474.25
	31	kWh		4,000	10,000	20,000	30,000	000'9	15,000	30,000	45,000	8,000	20,000	40,000	000'09	10,000	25,000	50,000	75,000	12,000	30,000	000'09	000:06
	Monthly Power	Hours Use	(a)	200	200	200	200	300	300	300	300	400	400	400	400	200	200	200	200	009	009	009	009
		κw		20	50	100	150	20	50	100	150	20	20	100	150	20	20	100	150	20	50	100	150

	FIGURE MAICS CHECHNE January 1, 2022	Proposed Kates effective January 1, 2023	THE TEHLOII DIII
	(0)	(d)	
(1) Distribution Customer Charge	\$145.00	\$145.00	Customer Charge
(2) LIHEAP Enhancement Charge	80.80	80.80	LIHEAP Enhancement Charge
 Renewable Energy Growth Program Charge 	\$32.45	\$32.45	RE Growth Program
Base Distribution Demand Charge (per kW > 10kW)	06'9\$	06'9\$	Distribution Demond Change
CapEx Factor Demand Charge (per kW > 10kW)	\$0.97	20.97	Distribution Demain Charge
Distribution Charge (per kWh)	\$0.00476	\$0.00476	
Operating & Maintenance Expense Charge	\$0.00169	\$0.00169	
Operating & Maintenance Expense Reconciliation Factor	\$0,00002	\$0.00002	
CapEx Reconciliation Factor	\$0.00064	\$0.00064	
(10) Revenue Decoupling Adjustment Factor	80.00118	\$0.00118	
(11) Pension Adjustment Factor	(\$0.00073)	(\$0.00073)	Distribution Energy Charge
(12) Storm Fund Replenishment Factor	\$0.00288	\$0.00288	
(13) Arrearage Management Adjustment Factor	\$0.00015	\$0.00015	
(14) Performance Incentive Factor	\$0,00005	\$0,0005	
(15) Low Income Discount Recovery Factor	80.00176	\$0.00176	
16) Long-term Contracting for Renewable Energy Charge	\$0.00931	\$0.00931	
(17) Net Metering Charge	\$0.00266	\$0.00266	Kenewable Energy Distribution Charge
(18) Transmission Demand Charge	\$4.37	\$4.37	Transmission Demand Charge
(19) Base Transmission Charge	\$0.01214	\$0.01214	
(20) Transmission Adjustment Factor	(\$0.00399)	(\$0.00399)	Transmission Adjustment
(21) Transmission Uncollectible Factor	\$0.00030	\$0.00030	
(22) Base Transition Charge	(\$0.00074)	(\$0.00074)	Donneitsien Chance
(23) Transition Adjustment	(80)00008)	(\$0.0008)	Haisilon Charge
(24) Energy Efficiency Program Charge	\$0.01843	\$0.02043	Energy Efficiency Programs
(25) Standard Offer Service Base Charge	80.08150	\$0.08150	
(26) SOS Adjustment Factor	80.00094	\$0.00094	Cumality Commission Description Chance
(27) SOS Adminstrative Cost Adjustment Factor	80.00224	\$0.00224	Supply Services Ellergy Climge
(28) Renewable Energy Standard Charge	\$0.00866	\$0.00866	
Line Item on Bill			
(29) Customer Charge	\$145.00	\$145.00	
(31) LIHEAP Enhancement Charge	80.80	80.80	
(30) RE Growth Program	\$32.45	\$32.45	
(32) Transmission Adjustment	\$0.00845	\$0.00845	
(33) Distribution Energy Charge	\$0.01240	\$0.01240	
(34) Distribution Demand Charge	\$7.87	87.87	
(35) Transmission Demand Charge	\$4.37	\$4.37	
(34) Transition Charge	(\$0.00082)	(\$0.00082)	
(35) Energy Efficiency Programs	\$0.01843	\$0.02043	
(36) Renewable Energy Distribution Charge	\$0.01197	\$0.01197	

Column (o): All lines except Line (24) per Summary of Reatal Delivery Service Rates, R.I.P.U.C. 2095 effective 10/1/2020, and Summary of Rates Standard Offer Service tariff, R.I.P.U.C. No. 2096, effective 10/1/2020; Line (24) Per Docket 5076, Schedule A. Line (17), Year 2023 (Bates page 148) + \$50,00030 for renewables change
(17), Year 2023 (Bates page 148) + \$50,00030 for renewables change

Proposed Rutes effective January 1, 2 Services Services Services Cell Gl Gl Gl Gl Gl Gl Gl	Proposed Rates effective January 1, 2022 Supply Services GET (c) (d) 2, 25,51,60 2,51,60 2,51,780 2,51	The Nar Chains The Nar Chains The Nar Chains	The Nar Chains The Nar Chains The Nar Chains	The Nar Chains The Nar Chains The Nar Chains	The National Proposed Butter of Manual Progress of Proposed Butter of Proposed Butter of National Progress of Proposed Butter of National Progress of Proposed Butter of Proposed Butt	The Normal Part The Normal	Charles of Particle Charles of Mandry Types Particle Charles of Mandry Types		L			000	000	000	
Toposod Rates effective January 1.2 Services (GFT (6) (9) (2) (3) (2) (3) (4) (5) (5) (5) (6) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7		The Nari Calculari Total Total Total Total Calculari Total Calculari Total Calculari Calcula	The Nari Calculari Total Total Total Total Calculari Total Calculari Total Calculari Calcula	The Nari Calculari Total Total Total Total Calculari Total Calculari Total Calculari Calcula	The Number of Property The Number of Prope	The Number of Details Company Calculation of Manifely Typical Bill	The National Broads Company Calculation of Manshly Spical Bit Total Bit Impact of Proposal State Catemary Table Bit Impact of Proposal Catemary Total Bit Impact of Proposal Catemary Total Surviva Supply Total Surviva Supply Catemary Total Surviva Supply Catemary Supply Catemary Catemary Supply Catemary Supply Catemary Supply Catemary Supply Catemary Supply Surviva Supply	E	Delivery	Services	(P)	\$4,368.35	\$16,051.45	\$21,361.95	
Cetive January 12 GET (d) \$305.00 \$1,100.00 \$1,505.00		The Nari Calculari Total Total Total Total Calculari Total Calculari Total Calculari Calcula	The Nari Calculari Total Total Total Total Calculari Total Calculari Total Calculari Calcula	The Nari Calculari Total Total Total Total Calculari Total Calculari Total Calculari Calcula	The Number of Property The Number of Prope	The Number of Details Company Calculation of Manifely Typical Bill	The National Broads Company Calculation of Manshly Spical Bit Total Bit Impact of Proposal State Categories Total Bit Impact of Proposal Categories Total Bit Impact of Proposal Categories Total Spical Supplied Total Supplied Tot	roposed Rates effi	Supply	Services	(3)	\$2,951.60	\$11,068.50	\$14,758.00	
		The Nari Calculari Total Total Total Total Calculari Total Calculari Total Calculari Calcula	The Nari Calculari Total Total Total Total Calculari Total Calculari Total Calculari Calcula	The Nari Calculari Total Total Total Total Calculari Total Calculari Total Calculari Calcula	The Number of Property The Number of Prope	The Number of Details Company Calculation of Manifely Typical Bill	The National Broads Company Calculation of Manshly Spical Bit Total Bit Impact of Proposal State Categories Total Bit Impact of Proposal Categories Total Bit Impact of Proposal Categories Total Spical Supplied Total Supplied Tot	ective January I, 2		GET	(p)	\$305.00	\$1,130,00	\$1,505.00	

				Proposed reates effe	ctive January 1, .	2022	Pro	posed Rates effect.	ive January 1, 20	23		5 Increase (1	Secrease)		Increase (1	Increase (Decrease) % of "	of Total E	3
	Monthly Power		Delivery	Supply			Delivery	Supply			Delivery	Supply			Delivery Supply			
κw	Hours Use	kWh	Services	Services	E	Total	Services	Services	E	Total	Services	Services	E.	Lota	ervices Ser	_	JET Total	a .
	(a)		(p)	(c)	(p)	(e)	(p)	(c)	(p)	(e)	Œ	(g)	(h)	(i)	9	(k)		2
200	200	40,000		\$2,951.60	\$305.00	\$7,624.95	\$4,448.35	\$2,951.60	\$308.33	\$7,708.28	\$80.00	\$0.00	\$3.33	\$83.33	1.0%	0.0% 0	.0%	<i>8</i> 2
750	200	150,000		\$11,068.50	\$1,130,00	\$28,249.95	\$16,351.45	\$11,068.50	\$1,142.50	\$28,562.45	\$300.00	\$0.00	\$12.50	\$312.50	1.1%	0.0%	.0%	<u> 2</u>
1,000	200	200,000		\$14,758.00	\$1,505.00	\$37,624.95	\$21,761.95	\$14,758.00	\$1,521.66	\$38,041.61	\$400.00	\$0.00	\$16.66	\$416.66	1.1%	0.0%	10%	2º.
1,500	200	300,000		\$22,137.00	\$2,255.00	\$56,374.95	\$32,582.95	\$22,137.00	\$2,280.00	\$56,999.95	\$600.00	\$0.00	\$25.00	\$625.00	1.1%	0.0%	.0%	<u> 2</u>
2,500	200	200,000		\$36,895.00	\$3,755.00	\$93,874.95	\$54,224.95	\$36,895.00	\$3,796.66	\$94,916.61	\$1,000.00	\$0.00	\$41.66	\$1,041.66	1.1%	0.0%	0.0%	8
5,000	200	1,000,000	Ψ,	\$73,790.00	\$7,505.00	\$187,624.95	\$108,329.95	\$73,790.00	\$7,588.33	\$189,708.28	\$2,000.00	\$0.00	\$83.33	\$2,083,33	1.1%	0.0%	10%	<i>₽</i> .
7,500	200	1,500,000		\$110,685.00	\$11,255.00	\$281,374.95	\$162,434.95	\$110,685.00	\$11,380.00	\$284,499.95	\$3,000.00	\$0.00	\$125.00	\$3,125.00	1.1%	0.0%	.0%	8
10,000	200	2,000,000		\$147,580.00	\$15,005.00	\$375,124.95	\$216,539.95	\$147,580.00	\$15,171.67	\$379,291.62	\$4,000.00	\$0.00	\$166.67	\$4,166.67	1.1%	0.0%	0.0%	8
20,000	200	4,000,000	\$424,959.95	\$295,160.00	\$30,005.00	\$750,124.95	\$432,959.95	\$295,160.00	\$30,338.33	\$758,458.28	\$8,000.00	\$0.00	\$333.33	\$8,333,33	1.1%	0.0%	10% 1	32
200	300	000'09		\$4,427.40	\$410.37	\$10,259.32	\$5,541.55	\$4,427.40	\$415.37	\$10,384,32	\$120.00	\$0.00	\$5.00	\$125.00	1.2%	0.0%	1 %00	.2%
750	300	225,000	97	\$16,602.75	\$1,525.15	\$38,128.85	\$20,450.95	\$16,602.75	\$1,543.90	\$38,597.60	\$450.00	\$0.00	\$18.75	\$468.75	1.2%	0.0%	10%	2%
1,000	300	300,000		\$22,137.00	\$2,031.87	\$50,796.82	\$27,227.95	\$22,137.00	\$2,056.87	\$51,421.82	\$600.00	80,00	\$25.00	\$625.00	1.2%	0.0%	10%	2%
1,500	300	450,000		\$33,205.50	\$3,045.31	\$76,132.76	\$40,781.95	\$33,205.50	\$3,082.81	\$77,070.26	\$900.00	\$0.00	\$37.50	\$937.50	1.2%	0.0%	10%	2%
2,500	300	750,000		\$55,342.50	\$5,072.19	\$126,804.64	\$67,889.95	\$55,342.50	\$5,134.69	\$128,367.14	\$1,500.00	80,00	\$62.50	\$1,562.50	1.2%	0.0%	10%	2%
5,000	300	1,500,000	45	\$110,685,00	\$10,139,37	\$253,484,32	\$135,659,95	\$110,685,00	\$10,264.37	\$256,609.32	\$3,000,00	\$0.00		\$3,125,00	1.2%	0.0%	10%	2%
7,500	300	2,250,000		97	\$15,206.56	\$380,164,01	\$203,429.95	\$166,027.50	\$15,394.06	\$384,851.51	\$4,500.00	\$0.00		\$4,687.50	1.2%	0.0%	10%	2%
10,000	300	3,000,000	\$265,199.95	-	\$20,273.75	\$506,843.70		\$221,370,00	\$20,523.75	\$513,093.70	\$6,000.00	\$0.00		\$6,250,00	1.2%	0.0%	10%	2%
20,000	300	000'000'9			\$40,542.50	\$1,013,562.45		\$442,740.00	\$41,042.50	\$1,026,062.45	\$12,000.00	\$0.00		\$12,500.00	1.2%	0.0%	10%	2%
200	400	80,000		\$5,903.20	\$515.75	\$12,893.70		\$5,903.20	\$522.41	\$13,060.36	\$160.00	\$0.00	\$6.66	\$166.66	1.2%	0.0%	1 %17	.3%
750	400	300,000		Ψ,	\$1,920.31	\$48,007.76		\$22,137.00	\$1,945.31	\$48,632.76	\$600.00	\$0.00	\$25.00	\$625.00	1.2%	0.0%	1 %17	.3%
1,000	400	400,000			\$2,558.75	\$63,968.70		\$29,516.00	\$2,592.08		\$800.00	\$0.00	\$33.33	\$833.33	1.3%	0.0%	1 %17	.3%
1,500	400	000'009		\$44,274.00	\$3,835.62	595,890.57		\$44,274.00	\$3,885.62		\$1,200.00	\$0.00	\$50.00	\$1,250.00	1.3%	0.0%	1 %17	.3%
2,500	400	1,000,000		\$73,790.00	\$6,389.37	\$159,734.32		\$73,790.00	\$6,472.71		\$2,000.00	\$0.00	\$83.34	\$2,083.34	1.3%	0.0%	11% 1	3%
5,000	400	2,000,000	_	\$147,580.00	\$12,773.75	\$319,343.70		\$147,580.00	\$12,940.42		\$4,000.00	\$0.00	\$166.67	\$4,166.67	1.3%	0.0%	1 % 1	3%
7,500	400	3,000,000	\$238,424.95	\$221,370.00	\$19,158.12	\$478,953.07	\$244,424.95	\$221,370.00	\$19,408.12		\$6,000.00	\$0.00	\$250.00	\$6,250.00	1.3%	0.0%	1 % 1	3%
10,000	400	4,000,000		\$295,160.00	\$25,542.50	\$638,562.45	\$325,859.95	\$295,160.00	\$25,875.83		\$8,000.00	\$0.00		\$8,333.33	1.3%	0.0%	1 % 1	3%
20,000	400	8,000,000	_	\$590,320.00	\$51,080,00	\$1,276,999.95	\$651,599.95	\$590,320.00	\$51,746.67	\$1,293,666.62	00:000'919	\$0.00	\$666.67	\$16,666.67	1.3%	0.0%	1 % 1	3%
200	200	100,000	_	\$7,379.00	\$621.12	\$15,528.07	\$7,727.95	\$7,379.00	\$629.46	\$15,736.41	\$200.00	\$0.00	\$8.34	\$208.34	1.3%	0.0%	1 %17	.3%
750	200	375,000		\$27,671.25	\$2,315.47	557,886.67	\$28,649.95	\$27,671.25	\$2,346.72	\$58,667.92	\$750.00	\$0.00	\$31.25	\$781.25	1.3%	0.0%	1 %17	.3%
1,000	200	200,000		\$36,895.00	\$3,085.62	\$77,140.57	\$38,159.95	\$36,895.00	\$3,127.29	\$78,182.24	\$1,000.00	\$0.00		\$1,041.67	1.3%	0.0%	11%	%
1,500	200	750,000		\$55,342.50	\$4,625.94	\$115,648.39	\$57,179.95	\$55,342.50	\$4,688.44	\$117,210.89	\$1,500.00	\$0.00		\$1,562.50	1.3%	0.0%	1.80	%
2,500	200	1,250,000		\$92,237.50	\$7,706.56	\$192,664.01	\$95,219.95	\$92,237.50	\$7,810.73	\$195,268.18	\$2,500.00	\$0.00		\$2,604.17	1.3%	0.0%	180	24%
5,000	200	2,500,000		\$184,475.00	\$15,408.12	\$385,203.07	\$190,319.95	\$184,475.00	\$15,616.46	\$390,411.41	\$5,000.00	\$0.00		\$5,208.34	1.3%	0.0%	1 % 1	%
7,500	200	3,750,000		\$276,712.50	\$23,109.69	\$577,742.14	\$285,419.95	\$276,712.50	\$23,422.19	\$585,554.64	\$7,500.00	\$0.00		\$7,812.50	1.3%	0.0%	1 % 1	%
10,000	200	5,000,000	\$370,519.95	\$368,950.00	\$30,811.25	\$770,281.20	\$380,519.95	\$368,950.00	\$31,227.92	\$780,697.87	00'000'019	\$0.00		\$10,416.67	1.3%	0.0%	1 % 1	\$ 4
20,000	200	10,000,000	Š	\$737,900.00	\$61,617.50	\$1,540,437.45	\$760,919.95	\$737,900.00	\$62,450.84	\$1,561,270.79	\$20,000.00	\$0.00		\$20,833.34	1.3%	0.0%	11%	.4%
200	009	120,000		\$8,854.80	\$726.50	\$18,162.45	\$8,821.15	\$8,854.80	\$736.50	\$18,412.45	\$240.00	\$0.00	\$10.00	\$250.00	1.3%	0.0%	11%	.4%
750	009	450,000		\$33,205.50	\$2,710.62	\$67,765.57	\$32,749.45	\$33,205.50	\$2,748.12	\$68,703.07	\$900.00	\$0.00	\$37.50	\$937.50	1.3%	0.0%	180	\$ 4
1,000	009	000,009		\$44,274.00	\$3,612.50	\$90,312.45	\$43,625.95	\$44,274.00	\$3,662.50	\$91,562.45	\$1,200.00	\$0.00	\$50.00	\$1,250.00	1.3%	0.0%	11%	.4%
1,500	009	000'006		\$66,411.00	\$5,416.25	\$135,406.20	\$65,378.95	\$66,411.00	\$5,491.25	\$137,281.20	\$1,800.00	\$0.00	\$75.00	\$1,875.00	1.3%	0.0%	11%	¥.
2,500	009	1,500,000		\$110,685.00	\$9,023.75	\$225,593.70	\$108,884.95	\$110,685.00	\$9,148.75	\$228,718.70	\$3,000.00	\$0.00	\$125.00	\$3,125.00	1.3%	0.0%	1.8	%
2,000	009	3,000,000		\$221,370.00	\$18,042.50	\$451,062.45	\$217,649.95	\$221,370.00	\$18,292.50	\$457,312.45	\$6,000.00	\$0.00	\$250.00	\$6,250.00	1.3%	0.0%	18 1	£.
7,500	009	4,500,000	\$317,414.95	\$332,055.00	\$27,061.25	\$676,531.20	\$326,414.95	\$332,055.00	\$27,436.25	\$685,906.20	\$9,000.00	\$0.00	\$375.00	\$9,375.00	1.3%	0.0%	8.0	¥.
10,000	009	000'000'9	\$423,179.95	\$442,740.00	\$36,080,00	\$901,999.95	\$435,179.95	\$442,740.00	\$36,580.00	\$914,499.95	12,000.00	\$0.00	\$500.00\$	12,500.00	1.3%	0.0%	80	£
20,000	009	12,000,000	\$846,239.95	\$885,480.00	\$72,155.00	\$1,803,874.95	\$870,239.95	\$885,480.00	\$73,155.00	\$1,828,874.95	\$24,000.00	\$000	1,000.00	25,000.00	1.3%	0.0%	18	%
				å	Description of Person	December 1 2002		December	December 1 2022	T	-	Cine from Dill	=					
				lot 1	ASSA Palves vires	(O)		NAME A	d falles criserine	January 1, 2020	41	III III III III III	≡I					

	ı	1		
Line Itemon Bill	Customer Charge LIHEAP Enhancement Charge RE Growth Program Distribution Demand Charge	Dietibution Energy Charge	Renewable Bengy Diethuirot Charge Transmission Domast Charge Transmission Adjustment Transmission Adjustment Transmission Charge Bengy Biltenewy Frongams Supply Services Bengy Charge	
Proposed Rates effective January 1, 2023 (p)	00.001,18 00.001,18	92,000/8 92,000/8 82,000/8 82,000/8 82,000/8 82,000/8 82,000/8 82,000/8 82,000/8 82,000/8 82,000/8 83,000/8 84,000/8 84,000/8 84,000/8	150,000.02 150	of a site of the control of
Proposed Rates effective January 1, 2022 (o)	0E 505 0E 505 0B 705 0B 705 0B 705 0B 705 0B 705	STOROUS STOROU	### 10000018 ### 10000018 ### 10000018 ### 10000018 ### 100000118 ### 100000018 ### 1000000018 ### 10000000000000000000000000000000000	of a city and a constraints
	(1) Distribution Customer Charge (2) LHEAPE Enhancement Charge (3) Renewable Energy Growth Program Charge (4) Reso Pairlibriation Durand Charge (per All Program Charge (5) Conf. Energy Lower (Program Charge (per All Program Charge) (5) Conf. Energy Lowerd Charge (per All 2003 W)	(s) Explication (the private Chaige of tw. 2-20A.W.) (d) Destribution (the gas (per NW)) Chaige (e) Operating & Minimum Expose (NW) Chaige (e) Operating & Minimum Expose (NW) Chaige (f) Operating & Minimum Expose (New Chaige (g) Conf. Ng excellation Factor space (Secondination Factor (g) Somer fund Rechainment Factor (g) Somer fund Rechainment Factor (h) Performance Instancer Factor (h) Performance Instancer Factor (c) Low Income Discount Recovery Factor (s) Low Income Discount Recovery Factor (s) Low Income Discount Recovery Factor	(1) More taken (1) more than (1) more than (1) more taken (1) more	(c) additional property of the company of the compa

Column (e): All lines except Line (24) per Summary of Read Belvey Service Rates, R.I. P.U.C. 2005 effective (01/2020), and Summary of Rates Standard Offer Service turiff, R.I.P.U.C. No. 2006, effective (01/2020), Line (24) Per Docket 5005, Solicide A. Line (17), Your 2022 (Base page 148) + 50,00000 for renew-balls can get a few page 148) + 50,00000 for renew-balls charge.

The Narraganset Electric Company
db/a National Grid
RIPUC Docket 5076
Attachment 1-37 (4)
High Scenario Year 1
Page 1 of 6

The Narragansett Electric Company Calculation of Monthly Typical Bill Total Bill Impact of Proposed Rates Applicable to A-16 Rate Customers

1.0 1.0			Rates Effective N	Rates Effective November 1, 2020		Proc	nosed Rates effect	Proposed Rates effective January 1, 2021)21		\$ Increase	\$ Increase (Decrease)		1	Increase (Decrea	Increase (Decrease) % of Total Bill		Percentage
18 18 18 18 18 18 18 18	Monthly		Supply	GFT			Supply	GFT		Delivery	Supply	GFT	Total		Supply	GFT		ofCustomer
15 15 15 15 15 15 15 15	(a)	(b)	(c)		(a) = (a) + (b) + (c)	(f)	(g)		(f) = (f) + (g) + (h)				(j) = (j) + (k) + (l)	(n) = (j) / (e)	(0) = (g) / (e)	(p) = (h) / (e)	(q) = (m) / (e)	(r)
1.00 2.814.5 2.814 2.815 2.845 2	150	\$25.79	\$15.56	\$1.72	\$43.07	\$25.79	\$15.56	\$1.72	\$43.07	\$0.00	\$0.00	\$0.00	\$0.00	0.0%	0.0%		0.0%	30.
440 5511.04 511.14 <td>300</td> <td>\$42.63</td> <td>\$31.11</td> <td>\$3.07</td> <td>\$76.81</td> <td>\$42.63</td> <td>\$31.11</td> <td>\$3.07</td> <td>\$76.81</td> <td>\$0.00</td> <td>\$0.00</td> <td>\$0.00</td> <td>\$0.00</td> <td>0.0%</td> <td>%0.0</td> <td></td> <td>0.0%</td> <td>12.9</td>	300	\$42.63	\$31.11	\$3.07	\$76.81	\$42.63	\$31.11	\$3.07	\$76.81	\$0.00	\$0.00	\$0.00	\$0.00	0.0%	%0.0		0.0%	12.9
900 500 <td>400</td> <td>\$53.85</td> <td>\$41.48</td> <td>\$3.97</td> <td>\$99.30</td> <td>\$53.85</td> <td>\$41.48</td> <td>\$3.97</td> <td>\$99.30</td> <td>\$0.00</td> <td>\$0.00</td> <td>\$0.00</td> <td>\$0.00</td> <td>0.0%</td> <td>0.0%</td> <td></td> <td>0.0%</td> <td>11.6</td>	400	\$53.85	\$41.48	\$3.97	\$99.30	\$53.85	\$41.48	\$3.97	\$99.30	\$0.00	\$0.00	\$0.00	\$0.00	0.0%	0.0%		0.0%	11.6
000 97.00 at 97.00 at 97.00 bt 97.00 at 97	200	\$65.07	\$51.85	\$4.87	\$121.79	\$65.07	\$51.85	\$4.87	\$121.79	\$0.00	\$0.00	\$0.00	\$0.00	0.0%	0.0%		0.0%	9.6
1.00 145.24 145	009	\$76.29	\$62.22	\$5.77	\$144.28	\$76.29	\$62.22	\$5.77	\$144.28	\$0.00	\$0.00	\$0.00	\$0.00	0.0%	0.0%		0.0%	7.3
1,200 1,15	700	\$87.51	\$72.59	\$6.67	\$166.77	\$87.51	\$72.59	\$6.67	\$166.77	\$0.00	\$0.00	\$0.00	\$0.00	0.0%	0.0%		0.0%	19.0
2000 2513.00	1,200	\$143.62	\$124.44	\$11.17	\$279.23	\$143.62	\$124.44	\$11.17	\$279.23	\$0.00	\$0.00	\$0.00	\$0.00	0.0%	%0.0		0.0%	9.9
Distribution Customer Change 1,500 1,000	2,000	\$233.40	\$207.40	\$18.37	\$459.17	\$233.40	\$207.40	\$18.37	\$459.17	\$0.00	\$0.00	\$0.00	\$0.00	0.0%	0.0%		0.0%	2.3
Second Personal Change Second Personal Cha				Rates Effective b	November 1, 2020		Propos	ed Rates effective	e January 1, 2021	1	ine Item on Bill							
Mathematical Charge S6.00 S6.00					(s)				(E)									
Ruther Partinguistree 20,000 20,000					\$6.00				\$6.00	υ.	ustomer Charge	5						
Destribution Charge (per NPh) Stold S80 Stold S8		oram Charae			\$0.80				\$2.16	- 2	F Growth Program	ment Charge						
Operating & Maintenance Expense Change \$0,00212 \$0,00212 Operating & Maintenance Expense Reconciliation Factor \$0,00020 \$0,00020 Operating & Maintenance Expense Reconciliation Factor \$0,00030 \$0,00030 Capit K electr Change \$0,00038 \$0,00030 Reconciliation Factor \$0,00038 \$0,00038 Reconciliation Factor \$0,00038 \$0,00018 Arcange Maintenant Factor \$0,00035 \$0,00038 Averange Maintenant Factor \$0,00035 \$0,00038 Averange Maintenant Factor \$0,00035 \$0,00038 Low Income Discount Recovery Factor \$0,00036 \$0,00037 Low Income Discount Recovery Factor \$0,00036 \$0,00036 Los All Allerine Factor \$0,00036 \$0,00036 Energy Efficiency Program Change \$0,000374 \$0,00036 Standed Confared Change \$0,00038 \$0,00036	•	0			\$0.04580				\$0.04580									
Opening & Maintenance Expense Reconcilation Factor \$0,00002 \$0,00002 Opening & Maintenance Expense Reconcilation Factor \$0,00004 \$0,00009 Recent Cultage \$0,00018 \$0,000018 Recent Decoupling Adjustment Factor \$0,00018 \$0,00018 Pursion Adjustment Factor \$0,00015 \$0,00015 Arcurage Management Adjustment Factor \$0,00015 \$0,00015 Arcurage Management Adjustment Factor \$0,00015 \$0,00015 Arcurage Management Adjustment Factor \$0,000176 \$0,00015 Arcurage Management Adjustment Factor \$0,000176 \$0,000176 Arcurage Language Langu		ense Charge			\$0.00212				\$0.00212									
Cuplex Fearer Change \$0,00336 \$0,00336 Cuplex Recompliation Factor \$0,00018 \$0,00030 Reveals Decopying Adjustment Factor \$0,000118 \$0,00013 Reveals Decopying Adjustment Factor \$0,00013 \$0,00013 Storm Fund Repleasishment Factor \$0,00015 \$0,00013 Areange Management Adjustment Factor \$0,00015 \$0,00015 Areange Management Adjustment Factor \$0,00015 \$0,00015 Low Incomplexity for Receivable Energy Change \$0,00026 \$0,00016 Rest Attenting Change \$0,00031 \$0,00016 Base Transmission Change \$0,00038 \$0,00016 Base Transmission Change \$0,00038 \$0,00038 Base Transmission Change		ense Reconciliation 1	Factor		\$0.00002				\$0.00002									
Capter Recompt Recompany Practical Recomposition of Capter Recomposition Adjustment Factor \$0,000091 \$0,000091 Remain Recomposition Adjustment Factor \$0,000288 \$0,000018 \$0,0000288 Storm Uniform Recomposition Adjustment Factor \$0,000005 \$0,000018 \$0,000018 Long-Leman Contracting Factor \$0,00005 \$0,000017 \$0,000017 Long-Leman Contracting for Recompt Pactor \$0,000036 \$0,000017 Long-Leman Contracting for Recompt Pactor \$0,000036 \$0,000017 Long-Leman Contracting for Recompt Pactor \$0,000036 \$0,000036 Lang-Leman Contracting for Recompt Pactor \$0,00036 \$0,000036 Transmission Change \$0,00038 \$0,000038 Base Transmission Change \$0,00038 \$0,000038 Base Transmission Change \$0,00038 \$0,000038 Stondard Offer Service Base Change \$0,00024 \$0,000039 SOS Administrative Cost Adjustment Factor \$0,00024 \$0,000234 SOS Administrative Cost Adjustment Factor \$0,00024 \$0,00039 Recewable Energy Standard Change RWh x \$0,00039 Recewable					\$0.00396				\$0.00396									
Rewalte Design Statement Factor \$0.000 18 \$0.000 18 Storm Fund Repleatshment Factor \$0.000 28 \$0.000 28 Storm Fund Repleatshment Factor \$0.000 15 \$0.000 15 Anternage Management Adjustment Factor \$0.000 15 \$0.000 15 Performance Incentive Factor \$0.000 16 \$0.000 15 Low Income Discount Recovery Factor \$0.000 16 \$0.000 15 Low Income Discount Recovery Factor \$0.000 21 \$0.000 16 Low Income Discount Recovery Factor \$0.000 21 \$0.000 21 Net Member Income Discount Recovery Factor \$0.000 26 \$0.000 26 Net Member Income Discount Recovery Factor \$0.000 26 \$0.000 26 Transmission Charge \$0.000 26 \$0.000 26 Base Transition Charge \$0.000 26 \$0.000 28 Base Transition Charge \$0.000 26 \$0.000 26 Stundston Major Major Recovery Factor \$0.000 26 \$0.000 26 Stundston Adjustment Factor \$0.000 26 \$0.000 26 Stundston Charge \$0.000 26 \$0.000 26 Storm who Factor \$0.000 26 \$0.000 26					\$0.00090				\$0.00090	_	iotoilantion Dages	5						
Storage and page		ent Factor			\$0.00118				\$0.00118	1	isuiounon Energ	sy Cinal ge						
Arreange Management Adjustment Factor \$0.00015 \$0.00015 Performance Incentive Factor \$0.00016 \$0.00005 Performance Incentive Factor \$0.000176 \$0.00016 Low Income Discount Recovery Factor \$0.00016 \$0.00016 Not Metering Charge \$0.000266 \$0.00026 Base Transition Charge \$0.00038 \$0.00026 Base Transition Adjustment Factor \$0.00038 \$0.00038 Transmission Uncollectible Factor \$0.00038 \$0.00038 Base Transition Adjustment Factor \$0.00038 \$0.00038 Base Transition Adjustment Factor \$0.00038 \$0.00038 Base Transition Adjustment Factor \$0.00038 \$0.00038 Base Transition Adjustment Factor \$0.00038 \$0.00038 Sunders Charge \$0.00038 \$0.00038 Sunders Charge \$0.00038 \$0.00038 Sunders Charge \$0.00039 \$0.00039 Receasely Efficiency Program Charge \$0.00039 \$0.00039 Receasely Efficiency Programs RWh x \$0.00039 And Transition Charge <td< td=""><td>Storm Fund Replenishment Fac</td><td>ctor</td><td></td><td></td><td>\$0.00288</td><td></td><td></td><td></td><td>\$0.00288</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	Storm Fund Replenishment Fac	ctor			\$0.00288				\$0.00288									
S0,00005 S0,000176 S0,000176 S0,000176	Arrearage Management Adjusti	ment Factor			\$0.00015				\$0.00015									
Low Income Discount Recovery Factor \$0.00176 \$0.00176 Low Income Discount Recovery Factor \$0.00231 \$0.00231 Acto age-Immortance of Transmission Charge \$0.00306 \$0.00261 Base Transmission Charge \$0.00308 \$0.00008 Transmission Adjustment Factor \$0.00038 \$0.000189 Transmission Localicitible Factor \$0.00038 \$0.000189 Transmission Localicitible Factor \$0.00038 \$0.00038 Energy Efficiency Program Charge \$0.00038 \$0.00038 Energy Efficiency Program Charge \$0.00068 \$0.00074 Standard Offer Service Base Charge \$0.00538 \$0.00230 Reaveable Energy Standard Charge \$0.00230 \$0.00230 Reaveable Energy Standard Charge \$0.00866 \$0.0024 So Administrative Cost Adjustment Factor \$0.00866 \$0.0024 So Administrative Cost Adjustment Factor \$0.00866 \$0.0024 Reaveable Energy Standard Charge \$0.00866 \$0.00866 So Administrative Cost Adjustment Factor \$0.00866 \$0.00866 Alter Coverble Programs RWh x	Performance Incentive Factor				\$0.00005				\$0.00005									
Cong-term Contracting for Renewable Energy Charge \$0,000931 \$0,000931 New Meering Charge \$0,000266 \$0,000266 Rase Transmission Charge \$0,00038 \$0,03006 Transmission Uncollectable Factor \$0,00038 \$0,00038 Transmission Uncollectable Factor \$0,000038 \$0,000038 Transmission Uncollectable Factor \$0,000038 \$0,000038 Transmission Uncollectable Factor \$0,000038 \$0,000038 Transmission Uncollectable Factor \$0,000038 \$0,00038 Energy Efficiency Program Charge \$0,000368 \$0,000038 Energy Efficiency Program Charge \$0,000230 \$0,000241 SOS Administrative Cost Adjustment Factor \$0,000241 \$0,000241 Reavewhle Energy Standard Charge \$0,00024 \$0,00024 SOS Administrative Cost Adjustment Factor \$0,00066 \$0,00024 Reavewhle Energy Standard Charge \$0,000866 \$0,00024 SOS Administrative Cost Adjustment Factor \$0,000866 \$0,00024 Reavewhle Energy Standard Charge \$0,000866 \$0,00024 SOS Administative Charge <t< td=""><td>Low Income Discount Recover</td><td>y Factor</td><td></td><td></td><td>\$0.00176</td><td></td><td></td><td></td><td>\$0.00176</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Low Income Discount Recover	y Factor			\$0.00176				\$0.00176									
Name of Memory SECONDATE	Long-term Contracting for Ren	newable Energy Char	əŝ		\$0.00931				\$0.00931	×	enewable Energy	· Distribution Cha.	rge					
Source S	Net Metenng Charge				\$0.00266				\$0.00266									
Intelnational Agriculture 20,000189 20,000189 20,000189 20,000189 20,000189 20,000189 20,000189 20,000089 20,00089 20,00	Dase Hansmission Charge				\$0.03096				\$0.03090	F	rone miceion Char	90						
Base Transition Charge	Transmission Uncollectible Fac	gor			\$0.00038				\$0.00038	•	Tallouine State	20						
Transition Adjustment (\$0,000008) (\$0,00008) Energy Efficiency Program Charge \$0,01333 \$0,00333 Standard Offer Service Base Charge \$0,00568 \$0,00568 SOS Adjustment Factor \$0,00230 \$0,00230 Relevable Energy Standard Charge \$0,000240 \$0,00230 Relevable Energy Standard Charge \$0,00066 \$0,00230 Cast oner Charge \$0,00866 \$0,00866 LHEAP Enhancement Charge \$0,008 \$0,008 LEAP Enhancement Charge \$0,008 \$0,008 Rel Cowable Programs RWh x \$0,008 \$0,009 Standard Charge \$0,008 \$0,008 \$0,008 Transition Charge RWh x \$0,008 \$0,009 Standard Charge RWh x \$0,008 \$0,009 Standard Charge RWh x \$0,008 \$0,009 Standard Charge RWh x \$0,008 \$0,009 Standard Charge RWh x \$0,008 \$0,009 Standard Charge RWh x \$0,008 \$0,009 <	Base Transition Charge				(\$0.00074)				(\$0.00074)	E	Constitution							
Energy Efficiency Program Charge \$0.01353 \$0.01353 Standard Office Service Base Charge \$0.00568 \$0.00568 Standard Office Service Base Charge \$0.00568 \$0.00204 Standard Office Service Base Charge \$0.00204 \$0.00204 SOS Administrative Cost Adjustment Factor \$0.0020 \$0.0020 Reaewable Energy Standard Charge \$0.00866 \$0.0020 Lame Hear on Bill \$6.00 \$0.00866 LHEAP Enhancement Charge \$0.80 \$0.00866 LHEAP Enhancement Charge \$0.80 \$0.80 RE Convolt Program RWh x \$0.0294 \$0.00866 Distribution Energy Charge RWh x \$0.0589 \$0.0589 All Transition Charge RWh x \$0.0589 \$0.00820 Renewable Energy Charge RWh x \$0.00820 \$0.00820 Renewable Energy Entiretery Programs RWh x \$0.00820 \$0.00820 Renewable Entiretery Programs RWh x \$0.00137 \$0.00137 Renewable Entergy Distribution Charge RWh x \$0.001197 \$0.01137	Transition Adjustment				(\$0.00008)				(\$0.00008)		ransinon Cikarge							
Stundard Offer Service Base Change \$0.09568 \$0.09568 SOS Adjustment Factor \$0.00294) \$0.00294) SOS Adjustment Factor \$0.00294 \$0.00230 Reaewable Energy Standard Charge \$0.00866 \$0.00866 Line Item on Bill \$6.00 \$0.00866 Lesterner Charge \$0.80 \$0.80 LHAPP Enhancement Charge \$0.80 \$0.80 LHAPP Enhancement Charge \$0.00866 \$0.00866 State Growth Programs kWh x \$0.02943 \$0.00946 Distribution Energy Charge kWh x \$0.00866 \$0.00945 Reacewable Energy Efficiency Programs kWh x \$0.00866 \$0.00866 Reacewable Energy Efficiency Programs kWh x \$0.01197 \$0.01370 Reacewable Energy Efficiency Programs kWh x \$0.01137 \$0.01137 Reacewable Energy Efficiency Programs kWh x \$0.01137 \$0.01137		arge			\$0.01353				\$0.01353	П	nergy Efficiency l	Programs						
No. No. Adjustment Pactor (80,002.94) (80,002.94) SON Adjustment Pactor \$0,000.29 \$0,000.29 Renewable Energy Standard Charge \$0,008.66 \$0,008.66 Cast corner Charge \$6.00 \$6.00 Cast corner Charge \$6.80 \$0.80 ELHEAP Palanacement Charge \$0.80 \$0.80 ELHEAP Palanacement Charge \$0.80 \$0.80 ELHEAP Palanacement Charge \$0.02945 \$0.80 ELHEAP Palanacement Charge \$0.02945 \$0.80 Distribution Energy Charge RWh x \$0.02945 \$0.02945 Distribution Energy Charge RWh x \$0.003819 \$0.02945 Berge Efficiency Programs RWh x \$0.01335 \$0.01197 Renwable Energy Distribution Charge RWh x \$0.01137 \$0.01137 Renwable Energy Distribution Charge RWh x \$0.01370 \$0.01137		harge			\$0.09568				\$0.09568									
So A variation of the cost Adjointment valued So A variation of the cost Adjointment valued So A variation of the cost Adjointment of the cost A		tesons Dootes			(\$0.00294)				(\$0.00294)	S	apply Services Er	nergy Charge						
Line Item on Bill \$6.00 Custorner Charge \$6.00 Stell Help Enhancement Charge \$0.80 RE Growth Program \$2.16 Rest Growth Programs kWh x Soundstay Charge kWh x Transition Charge kWh x Transition Charge kWh x Soundstay (\$0.00082) Restry Efficiency Programs kWh x Sunds Are Restricted Charge kWh x		harge			\$0.00866				\$0.00866									
LHEAP Enhancement Charge \$0.80					\$6.00				\$6.00									
Temperatories of Section Charge kWh x \$0.0294.5 \$0.0294.5 Temperatories Energy Charge kWh x \$0.025809 \$0.0 Institution Energy Charge kWh x \$0.01353 \$0.0 Temperator Charge kWh x \$0.01353 \$0.0 KWh x \$0.01353 \$0.0 \$0.0 KWh x \$0.01197 \$0.0 Kund kenize Energy Efficiency Programs kWh x \$0.01770 \$0.0					\$0.80				\$0.80									
Obstribution charge kWh x \$0.05809 Transition Charge kWh x \$60.0082) Renzy Britichery Programs kWh x \$60.0137 Kenewable Engery Distribution Charge kWh x \$60.01197 Simuly Concress Ensury Charge kWh x \$60.01197				kWh x	\$0.02945				\$0.02945									
Transition Charge Charge				kWh x	\$0.05809				\$0.05809									
Renewable Energy Distribution Charge kWh x \$0.01197 Sumbly Services Energy Charge kWh x \$0.10370				kwh x kWh x	\$0.0082)				\$0.0082)									
	Renewable Energy Distribution	n Charge		kWh x	\$0.01197				\$0.01197									

Column (s): per Summary of Retail Delivery Service Rates, R.1.P.U.C. No. 2095 effective 10/1/2020, and Summary of Rates Standard Offer Service tariff, R.1.P.U.C. No. 2096, effective 10/1/2020, and Summary of Rates Standard Offer Service tariff, R.1.P.U.C. No. 2096, effective 10/1/2020

Narragansett Electric Company lation of Monthly Typical Bill and Bill Impact of Proposed onlicable to A-60 Rate Customers

		S.	Rates Effective November 1, 2020	ember 1, 2020				Pronos	ed Rates effectiv	Proposed Rates effective January 1, 2021				S Increase (Decrease)	crease)		Incre	Increase (Decrease) % of Total Bil	% of Total Bill		Percentage
Monthly kWh	Delivery Services	Supply	Low Income Discounted Discount Total	Discounted Total	ŒŢ	Total	Delivery Services	Supply I Services	Low Income Discounted Discount Total	Discounted Total	GET	Total	Delivery Services	Supply Services		Total 5	Delivery Services	Supply Services	GET	Total	of Customers
(a)	(e)	- ن	(u) = [(0)+(0)] (c) x25	(a) + (a) + (b) +	9	(g) = (e) + (f)	(P)	9	x25	(n) + (n) - (v) + (i) +	(E)	(m) = (k) + (l)		(o) = (i) - (c) (p)	(b) - (l) = (d)			(s) = (o) ÷ (c)	(t) = (p) \div (f) (u	(g) ÷ (p) = (u)	(x)
150	\$25.53	\$15.56	(\$10.27)	\$30.82	\$1.28	\$32.10	\$25.53	\$15.56	(\$10.27)	\$30.82	\$1.28	\$32.10	\$0.00	80.00	\$0.00	\$0.00	%0'0	%0.0	%0.0	%0.0	32.1%
300	\$42.10	\$31.11	(\$18.30)	\$54.91	\$2.29	\$57.20	\$42.10	\$31.11	(\$18.30)	\$54.91	\$2.29	\$57.20	\$0.00	80.00	80.00	80.00	0.0%	0.0%	0.0%	0.0%	15.4%
400	\$53.14	\$41.48	(\$23.66)	\$70.96	\$2.96	\$73.92	\$53.14	\$41.48	(\$23.66)	\$70.96	\$2.96	\$73.92	\$0.00	80.00	80.00	80.00	0.0%	0.0%	0.0%	0.0%	12.5%
200	\$64.19	\$51.85	(\$29.01)	\$87.03	\$3.63	\$90.66	\$64.19	\$51.85	(\$29.01)	\$87.03	\$3.63	\$90.66	80.00	80.00	80.00	80.00	%0'0	0.0%	0.0%	0.0%	%9'6
009	\$75.24	\$62.22	(\$34.37)	\$103.09	\$4.30	\$107.39	\$75.24	\$62.22	(\$34.37)	\$103.09	\$4.30	\$107.39	80.00	80.00	80.00	80.00	%0'0	0.0%	0.0%	0.0%	7.2%
700	\$86.28	\$72.59	(\$39.72)	\$119.15	\$4.96	\$124.11	\$86.28	\$72.59	(\$39.72)	\$119.15	\$4.96	\$124.11	\$0.00	80.00	80.00	80.00	0.0%	0.0%	0.0%	0.0%	16.4%
1,200	\$141.51	\$124.44	(\$66.49)	\$199.46	\$8.31	\$207.77	\$141.51	\$124.44	(\$66.49)	\$199.46	\$8.31	\$207.77	\$0.00	\$0.00	\$0.00	\$0.00	%0.0	0.0%	0.0%	0.0%	5.2%
2,000	\$229.88	\$207.40	(\$109.32)	\$327.96	\$13.67	\$341.63	\$229.88	\$207.40	(\$109.32)	\$327.96	\$13.67	\$341.63	80.00	80.00	80.00	80.00	%0'0	0.0%	0.0%	0.0%	1.6%
				Rates	Rates Effective November 1, 2020	mber 1, 2020				Proposed Ra	Proposed Rates effective January 1, 202	mary 1, 2021	ij	Line Item on Bill							
						(w)						(x)									
						\$6.00						\$6.00	3 E	Customer Charge	Č						
(2) LiffeAP Ennancement Charge (3) Renewable France Growth Program Charge	orem Charge					\$0.80						\$0.80	7 2	LIMEAP Enhancement Charge RF Growth Program	ient Charge						
	9					\$0.04580						\$0.04580									
	anse Charge					\$0.00212						\$0.00212									
(6) Operating & Maintenance Expense Reconciliation Factor	ense Reconciliation	on Factor				\$0.00002						\$0.00002									
(7) CapEx Factor Charge						\$0.00396						\$0.00396									
						\$0.00090						\$0.00090	i	:	i						
(9) Revenue Decoupling Adjustment Factor	int Factor					\$0.00118						\$0.00118	ď	Distribution Energy Charge	y Charge						
(10) Pension Adjustment Factor						(\$0.00073)						(\$0.00073)									
(11) Storm Fund Repienismment Factor	ctor					\$0.00288						\$0.00288									
(12) Arrearage Management Adjusti (13) Parformance Incentive Ecotor	ment ractor					\$0.0000						\$0.00005									
(13) Ferrollmance incentive Factor (14) Low Income Discount Recovery Factor	v Factor					80,0000						\$0,0000									
(15) Long-term Contracting for Renewable Energy Charge	ewable Energy C	haroe				\$0.00931						\$0.00931				İ					
(16) Net Metering Charge	6	20				\$0.00266						\$0.00266	R	Renewable Energy Distribution Charge	Distribution Ch.	arge					
(17) Base Transmission Charge						\$0.03096						\$0.03096									
(18) Transmission Adjustment Factor	or					(\$0.00189)						(\$0.00189)	Ē	Transmission Charge	ae ae						
(19) Transmission Uncollectible Factor	ctor					\$0.00038						\$0.00038									
(20) Base Transition Charge (21) Transition Admetment						(\$0.00074)						(\$0.00074)	Ţ	Transition Charge							
(22) Energy Efficiency Program Charge	wge					\$0.01353						\$0.01353	En	Energy Efficiency Programs	rograms						
(23) Standard Offer Service Base Charge	harge					\$0.09568						\$0.09568									
(24) SOS Adjustment Factor						(\$0.00294)						(\$0.00294)	Su	Supply Services Energy Charge	ergy Charge						
(25) SOS Adminstrative Cost Adjustment Factor (26) Renewable Energy Standard Charge	stment ractor harge					\$0.00230						\$0.00230									
Line Item on Bill																					
(27) Customer Charge						\$6.00						\$6.00									
(28) LIHEAP Enhancement Charge (29) RF Growth Program						\$0.80						\$0.80									
(30) Transmission Charge						\$0.02945						\$0.02945									
(31) Distribution Energy Charge						\$0.05633						\$0.05633									
(33) Energy Efficiency Programs					Ш	\$0.01353						\$0.01353									
(34) Renewable Energy Distribution Charge (35) Sumby Services Energy Charge	1 Charge					\$0.01197						\$0.01197									
(36) Discount percentage						25%						25%									

Column (w) per Summary of Retail Delivery Service Rates, R.LP.U.C. No. 2095 effective 101/12020, and Summary of Rates Sundard Offer Service tariff, R.LP.U.C. No. 2096, effective 101/12020, and Summary of Rates Sundard Offer Service tariff, R.LP.U.C. No. 2096, effective 101/12020

The Narragansett Electric Company Calculation of Monthly Typical Bill Total Bill Impact of Proposed Rates Applicable to A-60 Rate Customers

		Ra	Rates Effective November 1 2020	pmber 1 2020				Pronose	vi Rates effective	Promosed Rates effective Tampary 1, 2021				S Increase (Decrease)	(db dcb)		Incres	Increase (Decrease) % of Total Bill	% of Total Bill		Percentage
Monthly kWh	Delivery Services	Supply Services	Low Income I Discount	Discounted Total	GET	Total	Delivery Services	Supply L Services	Low Income I Discount	Discounted Total	GET	Total	Delivery Services	Supply Services			Delivery Services S	Supply Services	GET	Total	of Customers
(a)	9	ن (و	(d) = $[(b)+(c)]$ (e) = $(b)+(c)$ x-30 + (d)	e) = (b) + (c) + (d)	9 (£)	(g) = (e) + (f)	æ	9	(j) = [(h)+(i)] $(k) = (h)+(i)x-30$ $+(j)$	(k) = (h) + (i) + (j)	(E)	(m) = (k) + (l)	(n) = [(h)+(j)] - [(h)+(d)]	(o) = (i) - (c)	(b) (J) - (J) = (d)	(d) + (b) + (c) (d) + (d	$(r) = (n) \div (b) + (d)$ (s)	(s) = (o) ÷ (c) (t)	$(t) = (p) \div (f)$ (u)	(g) ÷ (p) = (u)	(3)
150	\$25.53	\$15.56	(\$12.33)	\$28.76	\$1.20	\$29.96	\$25.53	\$15.56	(\$12.33)	\$28.76	\$1.20	\$29.96	\$0.00	80.00	\$0.00	80.00	%0'0	0.0%	%0.0	%0.0	32.1%
300	\$42.10	\$31.11	(\$21.96)	\$51.25	\$2.14	\$53.39	\$42.10	\$31.11	(\$21.96)	\$51.25	\$2.14	\$53.39	\$0.00	80.00	80.00	80.00	0.0%	0.0%	0.0%	0.0%	15.4%
400	\$53.14	\$41.48	(\$28.39)	\$66.23	\$2.76	\$68.99	\$53.14	\$41.48	(\$28.39)	\$66.23	\$2.76	\$68.99	\$0.00	80.00	\$0.00	80.00	0.0%	0.0%	0.0%	0.0%	12.5%
200	\$64.19	\$51.85	(\$34.81)	\$81.23	\$3.38	\$84.61	\$64.19	\$51.85	(\$34.81)	\$81.23	\$3.38	\$84.61	80.00	80.00	80.00	80.00	%0.0	0.0%	0.0%	0.0%	%9'6
009	\$75.24	\$62.22	(\$41.24)	\$96.22	\$4.01	\$100.23	\$75.24	\$62.22	(\$41.24)	\$96.22	\$4.01	\$100.23	80.00	80.00	80.00	80.00	0.0%	0.0%	0.0%	90.0	7.2%
700	\$86.28	\$72.59	(\$47.66)	\$111.21	\$4.63	\$115.84	\$86.28	\$72.59	(\$47.66)	\$111.21	\$4.63	\$115.84	\$0.00	80.00	80.00	80.00	0.0%	0.0%	0.0%	0.0%	16.4%
1,200	\$141.51	\$124.44	(879.79)	\$186.16	87.76	\$193.92	\$141.51	\$124.44	(879.79)	\$186.16	87.76	\$193.92	80.00	80.00	\$0.00	80.00	0.0%	0.0%	0.0%	0.0%	5.2%
2,000	\$229.88	\$207.40	(\$131.18)	\$306.10	\$12.75	\$318.85	\$229.88	\$207.40	(\$131.18)	\$306.10	\$12.75	\$318.85	80.00	\$0.00	\$0.00	80.00	0.0%	0.0%	0.0%	0.0%	1.6%
				Rates	Rates Effective November 1, 2020	mber 1, 2020				Proposed Rat	Proposed Rates effective January 1, 2021	uary 1, 2021	πŢ	Line Item on Bill							
						(w)						(X)									
(1) Distribution Customer Charge						86.00						86.00	CE	Customer Charge							
						80.80						80.80	=======================================	LIHEAP Enhancement Charge	ent Charge						
	gram Charge					\$2.16						\$2.16	RE	RE Growth Program	ı.						
(4) Distribution Charge (per kWh)						\$0.04580						\$0.04580									
(5) Operating & Maintenance Expense Charge	ense Charge					\$0.00212						\$0.00212									
(6) Operating & Maintenance Expense Reconciliation Factor	ense Reconciliatio.	n Factor				\$0.00002						\$0.00002									
(/) CapEx Factor Charge						\$0.00396						\$0.00396									
(8) CapEx Reconcination Factor (9) Resente Decompling Adjustment Factor	nt Factor					\$0.0000						\$0.00090	ć	Distribution Energy Charge	Charoe						
	TO THE TANK OF					(\$0,00073)						(\$0,00073)	5	9) crimings						
(11) Storm Fund Renlenishment Factor	ţ					\$0,000,00						\$0.000.5)									
(12) Arrearage Management Adjustment Factor	nent Factor					\$0.00015						\$0.00015									
(13) Performance Incentive Factor						\$0.00005						\$0.00005									
(14) Low Income Discount Recovery Factor	v Factor					\$0.00000						\$0.0000									
(15) Long-term Contracting for Renewable Energy Charge	ewable Energy Ch.	arge				\$0.00931						\$0.00931		1							
(16) Net Metering Charge	i					\$0.00266						\$0.00266	RC	enewable Energy	Distribution Cn.	arge					
(17) Base Transmission Charge						\$0.03096						\$0.03096									
(18) Transmission Adjustment Factor	ıc					(\$0.00189)						(\$0.00189)	Ą	Transmission Charge	as a						
(19) Transmission Uncollectible Factor	ctor					\$0.00038						\$0.00038									
(20) Base Transition Charge						(\$0.00074)						(\$0.00074)	Th	Transition Charge							
(22) Eneroy Efficiency Program Charge	Troe					\$0.00008)						\$0.01353	Ene	Energy Efficiency Programs	rograms						
(23) Standard Offer Service Base Charge	large					\$0.09568						\$0.09568									
(24) SOS Adjustment Factor						(\$0.00294)						(\$0.00294)	j	Cumby Carrioge Engres Charge	aron Charoa						
(25) SOS Adminstrative Cost Adjustment Factor	tment Factor					\$0.00230						\$0.00230	ń	ippry services Er	reigy change						
(26) Renewable Energy Standard Ct.	harge					\$0.00866						\$0.00866									
Line Item on Bill																					
(27) Customer Charge						86.00						86.00									
(28) LIHEAP Enhancement Charge						\$0.80						\$0.80									
(29) KE Growth Program (30) Transmission Charge						\$2.10						\$22.10									
(31) Distribution Energy Charge						\$0.05633						\$0.05633									
(32) Transition Charge					L	(\$0.00082)					L	(\$0.00082)									
(33) Energy Efficiency Programs (34) Renewable Energy Distribution Charge	Charge				_	\$0.01353						\$0.01353									
(35) Supply Services Energy Charge	9					\$0.10370						\$0.10370									
(36) Discount percentage						30%						30%									

Column (w) per Summary of Retail Delivery Service Rates, R.LP.U.C. No. 2095 effective 101/12020, and Summary of Rates Sundard Offer Service tariff, R.LP.U.C. No. 2096, effective 101/12020, and Summary of Rates Sundard Offer Service tariff, R.LP.U.C. No. 2096, effective 101/12020

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16.9% 8.1% 5.0%

0.0%

Total (m)

Percentage of Customers

The Narragansett Electric Company Calculation of Monthly Typical Bill Total Bill Impact of Proposed Rates Applicable to C-06 Rate Customers

	Rat	Rates Effective November 1, 2020	vember 1, 2020		Pronc	Proposed Rates effective January 1, 2021	e January 1, 202			\$ Increase (Decrease)	Decrease)		In	Increase (Decrease) % of Total Bill	% of Total Bill
Monthly	Delivery	Supply			Delivery	Supply			Delivery	Supply			Delivery	Supply	
kWh	Services	Services	GET	Total	Services	Services	GET	Total	Services	Services	GET	Total	Services	Services	GET
(a)	(p)	(c)	(p)	(e)	(p)	(c)	(p)	(e)	(t)	(g)	(h)	(i)	Ð	(k)	(1)
250	\$41.13	\$23.34	\$2.69	\$67.16	\$41.13	\$23.34	\$2.69	\$67.16	\$0.00	\$0.00	\$0.00	\$0.00	0.0%	0.0%	0.0%
200	\$68.11	\$46.67	\$4.78	\$119.56	\$68.11	\$46.67	\$4.78	\$119.56	\$0.00	\$0.00	\$0.00	\$0.00	0.0%	0.0%	0.0%
1,000	\$122.06	\$93.34	\$8.98	\$224.38	\$122.06	\$93.34	\$8.98	\$224.38	\$0.00	\$0.00	\$0.00	\$0.00	0.0%	0.0%	0.0%
1,500	\$176.02	\$140.01	\$13.17	\$329.20	\$176.02	\$140.01	\$13.17	\$329.20	\$0.00	\$0.00	\$0.00	\$0.00	0.0%	0.0%	0:0%
2,000	\$229.97	\$186.68	\$17.36	\$434.01	\$229.97	\$186.68	\$17.36	\$434.01	\$0.00	\$0.00	\$0.00	\$0.00	0.0%	0.0%	0.0%
		Rat	Rates Effective November 1, 2020	mber 1, 2020		Proposed R	Proposed Rates effective January 1, 202	nuary 1, 2021		Line Item on Bill					
				(0)				(a)	ļ						
(1) Distribution Customer Charge				\$10.00				\$10.00	U	Customer Charge					
(2) LIHEAP Enhancement Charge				\$0.80				\$0.80	ı	LIHEAP Enhancement Charge	ment Charge				
(3) Renewable Energy Growth Program Charge	ram Charge			\$3.35				\$3.35	R	RE Growth Program	am				
(4) Distribution Charge (per kWh)				\$0.04482				\$0.04482							
(5) Operating & Maintenance Expense Charge	nse Charge			\$0.00212				\$0.00212							
(6) Operating & Maintenance Expense Reconciliation Factor	nse Reconciliation Fa	ictor		\$0.00002				\$0.00002							
(7) CapEx Factor Charge				\$0.00339				\$0.00339							
(8) CapEx Reconciliation Factor				\$0.00085				\$0.00085							
(9) Revenue Decoupling Adjustment Factor	t Factor			\$0.00118				\$0.00118	ı	Distribution Energy Charge	gy Charge				
(10) Pension Adjustment Factor				(\$0.00073)				(\$0.00073)							
(11) Storm Fund Replenishment Factor	ior			\$0.00288				\$0.00288							
(12) Arrearage Management Adjustment Factor	nent Factor			\$0.00015				\$0.00015							
(13) Performance Incentive Factor				\$0.00005				\$0.00005							
(14) Low Income Discount Recovery Factor	Factor			\$0.00176				\$0.00176							
(15) Long-term Contracting for Renewable Energy Charge	wable Energy Charg	е		\$0.00931				\$0.00931	1	anomala Energ	Panawahla Enarm Dietribution Charae	ODAO			
(16) Net Metering Charge				\$0.00266				\$0.00266		cile wante Lifet g	y Distribution Cit	algo			
(17) Base Transmission Charge				\$0.03110				\$0.03110							
(18) Transmission Adjustment Factor	_			(\$0.00467)				(\$0.00467)	L	Transmission Charge	ırge				
(19) Transmission Uncollectible Factor	ior			\$0.00031				\$0.00031							
(20) Base Transition Charge				(\$0.00074)				(\$0.00074)		Transition Charge					
(21) Transition Adjustment				(\$0.00008)				(\$0.00008)		ransinon Charge					
	rge			\$0.01353				\$0.01353	н	Energy Efficiency Programs	Programs				
	arge			\$0.08150				\$0.08150							
(24) SOS Adjustment Factor				\$0.00094				\$0.00094	S	Supply Services Energy Charge	Snergy Charge				
	ment ractor			\$0.0024				\$0.00224							
				9				9							
(27) Customer Charge (28) LTHEAP Enhancement Charge				\$10.00				\$10.00							
				\$3.35				\$3,35							
				\$0.02674				\$0.02674							
				\$0.05649				\$0.05649							
				(\$0.00082)			ļ	(\$0.00082)							
(33) Energy Efficiency Programs	i			\$0.01353				\$0.01353							
(34) Renewable Energy Distribution Charge	Charge			\$0.01197				\$0.01197							
(35) Supply Services Energy Charge				\$0.09334				\$0.09334							

Column (o): per Summary of Retail Delivery Service Rates, R.I.P.U.C. No. 2095 effective 101/2020, and Summary of Rates Standard Offer Service tariff, R.I.P.U.C. No. 2096, effective 101/2020, and Summary of Rates Standard Offer Service tariff, R.I.P.U.C. No. 2096, effective 101/2020

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Total (m)

0.00%
0.00%
0.00%
0.00%
0.00%
0.00%
0.00%
0.00%
0.00%
0.00%
0.00%
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0.00%
0.00%
0.00%

(b) (c) (dE \$525.647 \$373.36 (e)	Services Cell Cel
------------------------------------	--

		Monthly Power	1	Delivery	Supply			Delivery	Supply			Delivery	Supply			Delivery	Supply		
	ΚM	Hours Use	kwh	Services (h)	Services (c)	GET (d)	Total (e)	Services (h)	Services (c)	E G	Total (e)	Services	Services (g)	₩ €	Total	Services (i)	Services (R)	E ∈	
	20	200	4,000	\$526.47	\$373.36	\$37.49	\$937.32	\$526.47	\$373.36	\$37.49	\$937.32	\$0.00	\$0.00	80.00	80.00	0.0%	0.0%	0.0%	%
	20	200	10,000	\$1,166.85	\$933.40	\$87.51	\$2,187.76	\$1,166.85	\$933.40	\$87.51	\$2,187.76	80.00	80.00	80.00	80.00	0.0%	0.0%	0.0%	8
	100	500	20.000	\$2,234.15	\$1.866.80	\$170.87	\$4.271.82	\$2,234.15	\$1.866.80	\$170.87	\$4 271.82	80.00	0008	80.00	00.08	%0.0	%0.0	%000	. %
	150	200	30.000	\$3.301.45	\$2.800.20	\$254.24	\$6.355.89	\$3.301.45	\$2.800.20	\$254.24	\$6.355.89	80.00	80.00	80.00	80.00	0.0%	0.0%	0.0%	2 30
	20	300	000'9	\$617.53	\$560.04	\$49.07	\$1,226.64	\$617.53	\$560.04	\$49.07	\$1,226.64	80.00	80.00	80.00	80.00	0.0%	0.0%	0.0	8
	20	300	15,000	\$1,394.50	\$1,400.10	\$116.44	\$2,911.04	\$1,394.50	\$1,400.10	\$116.44	\$2,911.04	\$0.00	80.00	80.00	80.00	0.0%	0.0%	%0.0	%
	100	300	30,000	\$2,689.45	\$2,800.20	\$228.74	\$5,718.39	\$2,689.45	\$2,800.20	\$228.74	\$5,718.39	\$0.00	80.00	\$0.00	\$0.00	0.0%	0.0%	0.0%	%
	150	300	45,000	\$3,984.40	\$4,200.30	\$341.03	\$8,525.73	\$3,984.40	\$4,200.30	\$341.03	\$8,525.73	\$0.00	\$0.00	\$0.00	80.00	0.0%	0.0%	0.0%	3°
	20	400	8,000	\$708.59	\$746.72	\$60.64	\$1,515.95	\$708.59	\$746.72	\$60.64	\$1,515.95	\$0.00	\$0.00	\$0.00	80.00	0.0%	0.0%	0.0	%
	20	400	20,000	\$1,622.15	\$1,866.80	\$145.37	\$3,634.32	\$1,622.15	\$1,866.80	\$145.37	\$3,634.32	\$0.00	80.00	80.00	\$0.00	0.0%	0.0%	0.0%	%
	100	400	40,000	\$3,144.75	\$3,733.60	\$286.60	\$7,164.95	\$3,144.75	\$3,733.60	\$286.60	\$7,164.95	\$0.00	\$0.00	\$0.00	\$0.00	0.0%	0.0%	0.0%	%
	150	400	000'09	\$4,667.35	\$5,600.40	\$427.82	\$10,695.57	\$4,667.35	\$5,600.40	\$427.82	\$10,695.57	\$0.00	\$0.00	\$0.00	\$0.00	0.0%	0.0%	0.0%	%
	20	200	10,000	\$799.65	\$933.40	\$72.21	\$1,805.26	\$799.65	\$933.40	\$72.21	\$1,805.26	\$0.00	\$0.00	80.00	\$0.00	0.0%	0.0%	0.0%	<i>%</i>
	20	200	25,000	\$1,849.80	\$2,333.50	\$174.30	\$4,357.60	\$1,849.80	\$2,333.50	\$174.30	\$4,357.60	\$0.00	\$0.00	80.00	\$0.00	0.0%	0.0%	0.0%	%
	100	200	50,000	\$3,600.05	\$4,667.00	\$344.46	\$8,611.51	\$3,600.05	\$4,667.00	\$344.46	\$8,611.51	\$0.00	80.00	\$0.00	\$0.00	0.0%	0.0%	0.0%	8
	150	200	75,000	\$5,350.30	\$7,000.50	\$514.62	\$12,865.42	\$5,350.30	\$7,000.50	\$514.62	\$12,865.42	\$0.00	\$0.00	\$0.00	\$0.00	0.0%	0.0%	0.0%	%
	20	009	12,000	\$890.71	\$1,120.08	\$83.78	\$2,094.57	\$890.71	\$1,120.08	\$83.78	\$2,094.57	\$0.00	\$0.00	\$0.00	80.00	0.0%	0.0%	0.0%	8
	20	009	30,000	\$2,077.45	\$2,800.20	\$203.24	\$5,080.89	\$2,077.45	\$2,800.20	\$203.24	82,080,89	80.00	\$0.00	80.00	\$0.00	0.0%	0.0%	%0.0	%
	100	009	000'09	\$4,055.35	\$5,600.40	\$402.32	\$10,058.07	\$4,055.35	\$5,600.40	\$402.32	\$10,058.07	\$0.00	\$0.00	\$0.00	\$0.00	0.0%	0.0%	%0.0	%
	150	009	000,00	\$6,033.25	\$8,400.60	\$601.41	\$15,035.26	\$6,033.25	\$8,400.60	\$601.41	\$15,035.26	\$0.00	\$0.00	\$0.00	\$0.00	0.0%	0.0%	%0.0	%
					Rate	Rates Effective November 1, 2020	mber 1, 2020		Proposed Ra	Rates effective January 1, 202	nuary 1, 2021	Ī	Line Item on Bill						
							9				<u>a</u>								
Ξ		Distribution Customer Charge					\$145.00				\$145.00	Ū	Sustomer Charge						
9 9		LIHEAP Enhancement Charge Denouslyle France Growth Program Charge	Charge				\$0.80				\$0.80		LIHEAP Enhancement Charge	nent Charge					
(c) (d)		Rase Distribution Demand Charge (ner kW > 10kW)	(rer kW > 10kW	(A)			0698				08 98		A CIOWIII I IOSIA	=					
9		CapEx Factor Demand Charge (per kW > 10kW)	KW > 10KW)	ì			\$0.97				\$0.97	_	Distribution Demand Charge	nd Charge					
9		Distribution Charge (per kWh)					\$0.00476				\$0.00476								
€ €		Operating & Maintenance Expense Charge	Charge	Dooton			\$0.00169				\$0.00169								
e) e		Operating & Mannenance Expense CanFx Reconciliation Factor	Neconcination	racioi			\$0.00002 \$0.00064				\$0.0002								
9		Revenue Decoupling Adjustment Factor	actor				\$0.00118				\$0.00118			Č					
Ξ		Pension Adjustment Factor					(\$0.00073)				(\$0.00073)	_	Distribution Energy Charge	y Charge					
(12)	Storm Fund F	Storm Fund Replenishment Factor					\$0.00288				\$0.00288								
(13)) Arrearage Ma	Arrearage Management Adjustment Factor	t Factor				\$0.00015				\$0.00015								
(15)	Low Income I	Low Income Discount Recovery Factor	ctor				\$0.00176				\$0.00176								
(16)) Long-term Cc	Long-term Contracting for Renewable Energy Charge	ble Energy Cha	тве			\$0.00931				\$0.00931		Renewable Energy Distribution Charge	Distribution Ch.	arge				
28		Inet Metering Charge Transmission Demand Charge					\$0.00266				\$0.00266	_	ransmission Dems	and Charge					
(61)		Base Transmission Charge					\$0.01214				\$0.01214			10					
(50)		Transmission Adjustment Factor					(\$0.00399)				(\$0.00399)		Fransmission Adjustment	stment					
(22)		on Charge					(\$0.00074)				(\$0.00074)		:						
(23)		djustment					(\$0.00008)			•	(\$0.00008)		Iransition Charge						
(24)) Energy Effici	Energy Efficiency Program Charge					\$0.01353				\$0.01353	н	Energy Efficiency Programs	Programs					
(52)		SOS Adjustment Factor	e.				\$0.08150				\$0.08150								
25		SOS Administrative Cost Adjustment Factor	nt Factor				\$0.00224				\$0.00224		Supply Services Energy Charge	nergy Charge					
(28)		Renewable Energy Standard Charge	9				\$0.00866				\$0.00866								
	I ine Item on Bill	Bill																	
(29)	Customer Charge	arge					\$145.00				\$145.00								
(31)) LIHEAP Enh	LIHEAP Enhancement Charge					\$0.80				\$0.80								
(32)) RE Growth Program) Transmission Adjustment	Togram					\$52.45				\$52.45								
(33)	Distribution E	Distribution Energy Charge					\$0.01240				\$0.01240								
(34)		Distribution Demand Charge					\$7.87				\$7.87								
(55)		Transmission Demand Charge Transition Charge					54.57				34.37								
(35)	Energy Efficie	Energy Efficiency Programs					\$0.01353				\$0.01353								
(36)	Renewable E	Renewable Energy Distribution Charge	arge			J	\$0.01197				\$0.01197								
(0)) Supply Service	Supply services Energy Charge					30.09334				\$0.09554								
	Column (o): p	Column (o): per Summary of Retail Delivery Service Rates, R.LP.U.C. No. 2095 effective 10/1/2020, and Summary of Rates Standard Offer Service tariff. R.L.P.U.C. No. 2096, effective 10/1/2020	Delivery Servic	ce Rates, R.I.P.U.	C. No. 2095 effec	tive 10/1/2020,	and Summary of	Rates Standard	Offer Service tariff	R.I.P.U.C. No	. 2096. effective	10/1/2020							

Column (o): per Summary of Retail Delivery Service Rates, R.LP.U.C. No. 2095 effective 101/2020, and Summary of Rates Standard Offer Service tariff, R.LP.U.C. No. 2096, effective 101/2020, and Summary of Rates Standard Offer Service tariff, R.LP.U.C. No. 2096, effective 101/2020, and Summary of Rates Standard Offer Service tariff, R.LP.U.C. No. 2096, effective 101/2020

he Narragansett Eketric Company dh'a National Grid RIPUC Docket 5076 Attachment 1-37 (4) High Scenario Year I Panes 6 of 6

		Rates Effective N	Rates Effective November 1, 2020		Prof	Proposed Rates effective January 1, 202	ve January 1, 20	21		\$ Increase (Decrease	Occrease)	Ī
kWh	Delivery Services	Supply Services	GET	Total	Delivery Services	Supply Services	GET	1	Delivery Services	Supply Services	GET	Total Serv
40.000	(b)	(c)	(d)	(e)	(b)	(0)	(p)	(e)	(f)	(8)	(h)	(1)
150,000	\$15,316.45	\$11,068.50	\$1,099.37	\$27,484.32	\$15,316,45	\$11,068.50	\$1,099.37	\$27,484.32	\$0.00	\$0.00	80.00	\$0.00
200,000	\$20,381.95	\$14,758.00	\$1,464.16	\$36,604.11	\$20,381.95	\$14,758.00	\$1,464.16	\$36,604.11	\$0.00	\$0.00	\$0.00	\$0.00
300,000	\$30,512.95	\$22,137.00	\$2,193.75	\$54,843.70	\$30,512.95	\$22,137.00	\$2,193.75	\$54,843.70	\$0.00	\$0.00	\$0.00	\$0.00
500,000	\$50,774.95	\$36,895.00	\$3,652.91	\$91,322.86	\$50,774.95	\$36,895.00	\$3,652.91	\$91,322.86	\$0.00	\$0.00	\$0.00	\$0.00
,000,000	\$101,429.95	\$73,790.00	\$7,300.83	\$182,520.78	\$101,429.95	\$73,790.00	\$7,300.83	\$182,520.78	\$0.00	\$0.00	\$0.00	\$0.00
000,000	\$152,084.95	\$110,685.00	\$10,948.75	\$273,718.70	\$152,084.95	\$110,685.00	\$10,948.75	\$273,718.70	\$0.00	\$0.00	80.00	\$0.00
1,000,000	\$405,359.95	\$295,160,00	\$29,188.33	\$729,708,28	\$405,359,95	\$295,160.00	\$29,188.33	\$729,708.28	80.00	\$0.00	80.00	\$0.00
000'09	\$5,127.55	\$4,427.40	\$398.12	\$9,953.07	\$5,127.55	\$4,427.40	\$398.12	\$9,953.07	\$0.00	\$0.00	\$0.00	\$0.00
225,000	\$18,898.45	\$16,602.75	\$1,479.22	\$36,980.42	\$18,898.45	\$16,602.75	\$1,479.22	\$36,980.42	\$0.00	\$0.00	\$0.00	\$0.00
300,000	\$25,157.95	\$22,137.00	\$1,970.62	\$49,265.57	\$25,157.95	\$22,137.00	\$1,970.62	\$49,265.57	\$0.00	\$0.00	\$0.00	\$0.00
450,000	\$37,676.95	\$33,205.50	\$2,953.44	\$73,835.89	\$37,676.95	\$33,205.50	\$2,953.44	\$73,835.89	\$0.00	\$0.00	\$0.00	\$0.00
000,000	\$62,714.95	\$55,342.50	54,919,06	\$122,976.51	\$62,714.95	\$55,342.50	\$4,919.06	\$122,976.51	30.00	\$0.00	30.00	30.00
2,250,000	\$125,309.95	\$110,985.00	\$1,747.19	\$368,679,64	\$125,309.95	\$110,065.00	\$14,747.19	\$368,679,64	\$0.00	\$0.00	80.00	\$0.00
3,000,000	\$250,499.95	\$221,370.00	\$19,661.25	\$491,531.20	\$250,499.95	\$221,370.00	\$19,661.25	\$491,531.20	\$0.00	\$0.00	\$0.00	\$0.00
6,000,000	\$500,879.95	\$442,740.00	\$39,317.50	\$982,937.45	\$500,879.95	\$442,740.00	\$39,317.50	\$982,937.45	\$0.00	\$0.00	\$0.00	\$0.00
80,000	\$6,082.75	\$5,903.20	\$499.41	\$12,485.36	\$6,082.75	\$5,903.20	\$499.41	\$12,485.36	\$0.00	\$0.00	\$0.00	\$0.00
300,000	\$22,480.45	\$22,137.00	\$1,859.06	\$46,476.51	\$22,480.45	\$22,137.00	\$1,859.06	\$46,476.51	\$0.00	\$0.00	\$0.00	\$0.00
400,000	\$29,933.95	\$29,516.00	\$2,477.08	\$61,927.03	\$29,933.95	\$29,516.00	\$2,477.08	\$61,927.03	30.00	20.00	30.00	90.00
000,000	\$74,654.95	\$73,790.00	\$6,185.21	\$154,630.16	\$74,654.95	\$73,790.00	\$6,185.21	\$154,630.16	\$0.00	\$0.00	\$0.00	\$0.00
2,000,000	\$149,189.95	\$147,580.00	\$12,365.42	\$309,135.37	\$149,189.95	\$147,580.00	\$12,365.42	\$309,135.37	\$0.00	\$0.00	\$0.00	\$0.00
3,000,000	\$223,724.95	\$221,370.00	\$18,545.62	\$463,640.57	\$223,724.95	\$221,370.00	\$18,545.62	\$463,640.57	\$0.00	\$0.00	\$0.00	\$0.00
4,000,000	\$298,259.95	\$295,160.00	\$24,725.83	\$618,145.78	\$298,259.95	\$295,160.00	\$24,725.83	\$618,145.78	\$0.00	\$0.00	\$0.00	\$0.00
8,000,000	\$596,399.95	\$590,320.00	\$49,446.67	\$1,236,166.62	\$596,399.95	\$590,320.00	\$49,446.67	\$1,236,166.62	\$0.00	\$0.00	\$0.00	\$0.00
100,000	\$7,037.95	\$7,379.00	\$600.71	\$15,017.66	\$7,037.95	\$7,379.00	\$600.71	\$15,017.66	\$0.00	\$0.00	\$0.00	\$0.00
375,000	\$26,062.45	\$27,671.25	\$2,238.90	\$55,972.60	\$26,062.45	\$27,671.25	\$2,238.90	\$55,972.60	\$0.00	\$0.00	\$0.00	\$0.00
200,000	\$54,709.95	\$36,895.00	\$2,983.54	\$74,588.49	\$54,709.95	\$36,895.00	\$2,983.54	\$74,588.49	90:08	\$0.00	90.00	8.08
250,000	\$86.594.95	\$92,237.50	\$7.451.35	\$186,283,80	\$86.594.95	\$92,237.50	\$7.451.35	\$186,283.80	80.00	80.00	80.00	80.00
2,500,000	\$173,069.95	\$184,475.00	\$14,897.71	\$372,442.66	\$173,069.95	\$184,475.00	\$14,897.71	\$372,442.66	\$0.00	\$0.00	\$0.00	\$0.00
3,750,000	\$259,544.95	\$276,712.50	\$22,344.06	\$558,601.51	\$259,544.95	\$276,712.50	\$22,344.06	\$558,601.51	\$0.00	\$0.00	\$0.00	\$0.00
5,000,000	\$346,019.95	\$368,950.00	\$29,790.42	\$744,760.37	\$346,019.95	\$368,950.00	\$29,790.42	\$744,760.37	\$0.00	\$0.00	\$0.00	\$0.00
0,000,000	\$691,919.95	\$737,900.00	\$59,575.84	\$1,489,395.79	\$691,919.95	\$737,900.00	\$59,575.84	\$1,489,395.79	\$0.00	\$0.00	\$0.00	\$0.00
120,000	\$7,993.15	\$8,854.80	\$702.00	\$17,549.95	\$7,993.15	\$8,854.80	\$702.00	\$17,549.95	\$0.00	\$0.00	\$0.00	\$0.00
450,000	\$29,644.45	\$33,205.50	\$2,618.75	\$65,468.70	\$29,644.45	\$33,205.50	\$2,618.75	\$65,468.70	\$0.00	\$0.00	\$0.00	\$0.00
000,000	\$39,485.95	\$44,274.00	\$3,490.00	\$87,249.95	\$39,485.95	\$44,274.00	\$3,490.00	\$87,249.95	20.00	20.00	20.00	\$0.00
000,000	\$59,168.95	\$66,411.00	\$5,232.50	\$130,812.45	\$59,168.95	\$66,411.00	\$5,232.50	\$130,812.45	\$0.00	\$0.00	20.00	\$0.00
1,500,000	\$98,534.95	\$110,685.00	\$8,717.50	\$217,937.45	\$98,534.95	\$110,685.00	\$8,717.50	\$217,937.45	\$0.00	\$0.00	20.00	\$0.00
3,000,000	\$196,949.95	\$221,370.00	\$17,430.00	\$435,749.95	\$196,949.95	\$221,370.00	\$17,430.00	\$435,749.95	90:00 90:00	\$0.00	80.00	80.08
6,000,000	\$393,779.95	\$442,740,00	\$34.855.00	\$871.374.95	\$393,779.95	\$442,740.00	\$34.855.00	4001,000	00.00	0000	00.00	00.00
0,000,000	00.011.0000	A	the statement of the st				777777	28/1.3/4.95	80.00	20.00	80.08	8

_1	ement Charge	nand Charge	ny Charge	Renewable Energy Distribution Charge	mand Charge	justment	9.	y Programs	Епетду Спатде	
line Item on Bil	Customer Charge LIHEAP Enhancement Charge RE Growth Program	Distribution Demand Charge	Distribution Energy Charge	Renewable Energ	Transmission Demand Charge	Transmission Adjustment	Transition Charge	Energy Efficiency Programs	Supply Services Energy Charge	
Proposed Rates effective January 1, 2021 (p)	\$1,100.00 \$0.80 \$267.1.5	\$5.30	0500000 0	\$0.00931	74.47	\$0.01264 (\$0.00070) \$0.00034	(\$0.00074)	\$0.01353	99800'08 98100'08 18500'08	00000 SI,10000 SI,0000 SI,0000 SI,0000 SI,0000 SI,00000 SI,000000 I,0000 SI,0000 SI,000 SI,000 SI,000 SI,000 SI,000 S
Kates Litective November 1, 2020 (o)	\$1,100.00 \$0.80 \$267.15	\$530 \$0.94	STORMER STORME	\$0,00931 \$0,00036	7447	\$0.01264 (\$0.00070) \$0.00034	(\$0.00074)	\$0.01353	\$0.00381 \$0.00381 \$0.00386 \$0.003866	\$1,0000 \$0.000 \$0.001.8 \$0.012.8 \$0.010.8 \$0.013.9 \$0.013.9
	(1) Distribution Customer Charge (2) LIHEAP Enhancement Charge (3) Renewable Energy Growth Program Charge		(o) Distribution Chang (per VM) (1) Operating & Malmonance Expone Change (3) Operating & Malmonance Expone Reconcilation Factor (3) Capits Reconcilision Factor Per Reconcilation Factor (10) Recons Decoupling Additionance Expone Reconcilation Factor (11) Personan Adjustment Factor (12) Storm Found Replacionant Factor (13) Performance Reconstruction Reconcilation Reconcilation Factor (14) Performance Reconstruction Reconstruction Factor (15) Performance Reconstruction Reconstruction Factor (17) Performance Reconstruction Reconstruction Reconstruction Factor (18) Performance Reconstruction Reconstruct	(16) Long-term Contracting for Renewable Energy Charge (17) Not Motorine Charge	(18) Transmission Demand Charge	(19) Base Transmission Chuge (20) Transmission Adjustment Factor (21) Transmission Uncollectible Factor	(22) Base Transition Charge (23) Transition Adjustment	(24) Energy Efficiency Program Charge	(25) Standard Offer Service Base Changes (26) SOGS Adjusterard Festor (27) SOGS Administrative Cost Adjusterard Factor (28) Returnable Energy Standard Change (28) Item with History Standard Change	(2) Customer Charge (3) REforest Charge (3) REforest Program (2) Transmission Adjustment (2) Transmission Adjustment (3) Distribution Energy Charge (3) Distribution Energy Charge (3) Distribution Energy Charge (3) Transmission Obmund Charge (3) Transmission Obmund Charge (4) Transmission Obmund Charge (5) Temporal Energy Charge (5) Tourney Springer (6) Renewable Energy Obst-thrition Charge (7) Supply Services Energy Charge

Column (6): per Summary of Reath Delivery Service Rates, R.L.D.U.C. No. 2005 effective 101/2020, and Summary of Rates Standard Offer Service until, R.L.D.U.C. No. 2006, effective 101/2020, and Summary of Rates Standard Offer Service until, R.L.D.U.C. No. 2006, effective 101/2020, and Summary of Rates Standard Offer Service until, R.L.D.U.C. No. 2006, effective 101/2020

The Narrigansett Electric Company
Calculation of Monthy Typical Bill
Total Bill Impact of Proposed
Rates Applicable to A-16 Rac Casomers

The Narragansett Electric Company
db/a National Grid
RPUC Docket 5076
Attachment 1-37 (5)
High Scenario Year 2
Page 1 of 6

	ά	Proposed Rates effective January 1, 2021	ctive January 1,	2021	Pro	Proposed Rates effective January 1	tive January 1,	1, 2022		\$ Increa	\$ Increase (Decrease)			Increase (Decrea	Increase (Decrease) % of Total Bill	=	Percentage
Monthly	Delivery	Supply			Delivery	Supply			Delivery	Supply			Delivery	Supply			of Customers
Wh	Services	Services	GET	Total	Services	Services	GET	Total	Services	Services	GET	Total	Services	Services	GET	Total	
(a)	(p)	(c)	(b)	(e) = (a) + (b) + (c)	(£)	(B)	(h)	(i) = (f) + (g) + (h)	(j) = (f) - (b)	(j) = (f) - (b) $(k) = (g) - (c)$	(1) = (h) - (d)	(m) = (j) + (k) + (l)	(n) = (j) / (e)	(o) = (g) / (e)	(p) = (h) / (e)	(q) = (m) / (e)	(£)
150	\$25.79	\$15.56	\$1.72	\$43.07	\$26.69	\$15.56	\$1.76	\$44.01	\$0.90	\$0.00	\$0.04	\$0.94	2.1%	%0.0	0.1%	2.2%	30.1%
300	\$42.63	\$31.11	\$3.07	\$76.81	\$44.42	\$31.11	\$3.15	\$78.68	\$1.79	\$0.00	\$0.08	\$1.87	2.3%	%0.0	0.1%	2.4%	12.9%
400	\$53.85	\$41.48	\$3.97	\$99.30	\$56.24	\$41.48	\$4.07	\$101.79	\$2.39	\$0.00	\$0.10	\$2.49	2.4%	%0.0	0.1%	2.5%	11.6%
200	\$65.07	\$51.85	\$4.87	\$121.79	\$68.07	\$51.85	\$5.00	\$124.92	\$3.00	\$0.00	\$0.13	\$3.13	2.5%	%0.0	0.1%	2.6%	%9.6
009	\$76.29	\$62.22	\$5.77	\$144.28	\$79.89	\$62.22	\$5.92	\$148.03	\$3.60	\$0.00	\$0.15	\$3.75	2.5%	%0.0	0.1%	2.6%	7.7%
700	\$87.51	\$72.59	\$6.67	\$166.77	\$91.71	\$72.59	\$6.85	\$171.15	\$4.20	\$0.00	\$0.18	\$4.38	2.5%	%0.0	0.1%	2.6%	19.0%
1,200	\$143.62	\$124.44	\$11.17	\$279.23	\$150.81	\$124.44	\$11.47	\$286.72	\$7.19	\$0.00	\$0.30	\$7.49	2.6%	%0.0	0.1%	2.7%	%8.9
2,000	\$233.40	\$207.40	\$18.37	\$459.17	\$245.38	\$207.40	\$18.87	\$471.65	\$11.98	\$0.00	\$0.50	\$12.48	2.6%	0.0%	0.1%	2.7%	2.3%

Line Item on Bill	Customer Charge LIHEAP Enhancement Charge	RE Growth Program						Distribution Energy Charge						Panawahla Fnamu Dietrihution Chara	Note waste Linking Distribution Charge		Transmission Charge		Tunanition Church	Traising Civil ge	Energy Efficiency Programs		Sunnly Garriogs Financy Charms	Supply Services Linuigo Cinnigo										
Proposed Rates effective January 1, 2022 (t)	80.80	\$2.16	\$0.04580	\$0.00212	\$0.00002	\$0.00396	0600000\$	\$0.00118	(\$0.00073)	\$0.00288	\$0.00015	\$0.00005	\$0.00176	\$0.00931	\$0.00266	\$0.03096	(\$0.00189)	\$0.00038	(\$0.00074)	(\$0.00008)	\$0.01952	\$0.09568	(\$0.00294)	\$0.00230	\$0.00866		86.00	80.80	\$2.16	\$0.02945	80.05809	(\$0.00082)	2601100\$	\$0.10370
Proposed Rates effective January 1, 2021 (s)	86.00	\$2.16	\$0.04580	\$0.00212	ion Factor \$0.00002	\$0.00396	80.00090	\$0.00118	(\$0.00073)	\$0.00288	\$0.00015	\$0.00005	\$0.00176	Charge \$0.00931	\$0.00266	\$0.03096	(\$0.00189)	\$0.00038	(\$0.00074)	(\$0.00008)	\$0.01353	\$0.09568	(\$0.00294)	\$0.00230	\$0.00866		86.00	80.80	\$2.16			kWh x (\$0.00082)	kWh x \$0.01197	kWh x \$0.10370
		(3) Renewable Energy Growth Program Charge	 Distribution Charge (per kWh) 	(5) Operating & Maintenance Expense Charge	(6) Operating & Maintenance Expense Reconciliation Factor	(7) CapEx Factor Charge	(8) CapEx Reconciliation Factor	(9) Revenue Decoupling Adjustment Factor	(10) Pension Adjustment Factor	(11) Storm Fund Replenishment Factor	(12) Arrearage Management Adjustment Factor	(13) Performance Incentive Factor	(14) Low Income Discount Recovery Factor	(15) Long-term Contracting for Renewable Energy Charge	(16) Net Metering Charge	(17) Base Transmission Charge	(18) Transmission Adjustment Factor	(19) Transmission Uncollectible Factor	(20) Base Transition Charge	(21) Transition Adjustment	(22) Energy Efficiency Program Charge	(23) Standard Offer Service Base Charge	(24) SOS Adjustment Factor	(25) SOS Adminstrative Cost Adjustment Factor	(26) Renewable Energy Standard Charge	Line Item on Bill	(27) Customer Charge	(28) LIHEAP Enhancement Charge	(29) RE Growth Program	(30) Transmission Charge	(31) Distribution Energy Charge	(32) Transition Charge (33) France Efficiency Programs	(34) Renewable Energy Distribution Charge	(35) Supply Services Energy Charge

Column (s): per Summary of Retail Delivery Service Rates, R.I.P.U.C. No. 2095 effective 101/2020, and Summary of Rates Standard Offer Service tariff, R.I.P.U.C. No. 2096, effective 101/2020; Line (22) per Summary of Retail Delivery Service Rates, R.I.P.U.C. 2095 effective 107/2020, and Summary of Rates Standard Offer Service tariff, R.I.P.U.C. No. 2096, effective 107/2020; Line (22) Per Docket 5076, Selectule A, Line (17), Year 2022 (Bates page 150) + 50.00030 for renewables charge

Percentage	of Oretomore	or Customers	(y)	2.2% 32.1%	2.4% 15.4%	2.5% 12.5%	2.6% 9.6%	2.6% 7.2%	2.7% 16.4%	2.7% 5.2%	2.7% 1.6%																									
Bill		Total	(g) ÷ (b) = (n) (g)																																	
se) % of Tota		GET	(t) = (p) ÷ (t)	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%																									
Increase (Decrease) % of Total Bill	Sumary	Services	(s) = (o) ÷ (c)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%																									
П	Daliyany	Services	(r) = (n) ÷ [(b)+(d)]	2.1%	2.4%	2.4%	2.5%	2.5%	2.5%	2.6%	2.6%																									
		Total	(d) + (u) + (b) + (b)	80.70	\$1.40	\$1.87	\$2.34	\$2.81	\$3.29	\$5.62	\$9.35																harge									
crease)		GET)) (J) - (J) = (d)	\$0.03	\$0.05	\$0.07	80.09	\$0.11	\$0.14	\$0.23	\$0.37				nt Charge						/ Charge						Distribution C		as Se			ograms		ergy Charge	3	
\$ Increase (Decrease)	Aunu	Services	(o) = (i) - (c) (p	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	80.00	\$0.00	80.00	Line Item on Bill		Customer Charge	LIHEAP Enhancement Charge	RE Growth Program					Distribution Energy Charge						Renewable Energy Distribution Charge		Transmission Charge		Transition Charge	Energy Efficiency Programs		Supply Services Energy Charge		
	Daliman		(n) = [(h)+(j)] - [(h)+(q)] (o)	29.05	\$1.35	\$1.80	\$2.25	\$2.70	\$3.15	\$5.39	\$8.98	Line		Custo	LIHE	REG					Dist						Ren		Trar		Trar	Eners		ans		
	Į.	Total Ser	(m) = $(k) + (l)$ [(b)	\$32.80	\$58.60	875.79	\$93.00	\$110.20	\$127.40	\$213.39	\$350.98	.1. 2022	8	86.00	80.80	\$2.16	\$0.04580	\$0.00212	\$0.00002 \$0.00396	0600000	\$0.00118	(\$0.00073)	\$0.00288	\$0.00015	\$0.00005	\$0.0000	\$0.00931 \$0.00266	\$0.03096	(\$0.00189)	\$0.00038	(\$0.00074)	\$0,01952	\$0.09568	(\$0.00294)	\$0.00230	\$0,00866 \$6.00 \$0.80 \$2.16 \$0.02945 \$0.06633 \$0.00082
				\$1.31	\$2.34	\$3.03	\$3.72	\$4.41 S	\$5.10	\$8.54 \$3	\$14.04	fective January					0.00	S, 8	8 8	S	. SO	(\$0	80.	80.	S S	. SO.	S S	.08	(\$0.	\$0.	(S)	80	80.	(\$0.	S, S	\$ S S S S
rv 1, 2022	tod	GET	(E) (E)	\$31.49	\$56.26	\$72.76	\$89.28	\$105.79	\$122.30	\$204.85		Proposed Rates effective January 1, 2022																								
effective Janua	na Diecom		(i)] $(k) = (h) + (i)$ + (j)							•	32) \$336.94	Pro																								
Proposed Rates effective January 1, 2022	I our hoor	Discount	(j) = $[(h)+(i)]$ x25	(\$10.50)	(\$18.75)	8 (\$24.26)	5 (\$29.76)	2 (\$35.26)	(\$40.77)	4 (\$68.29)) (\$112.32)																									
P	Suma	Services	8	\$15.56	\$31.11	\$41.48	\$51.85	\$62.22	\$72.59	\$124.44	\$207.40																									
	Dolivon	Services	æ	\$26.43	\$43.90	\$55.54	\$67.19	\$78.83	\$90.48	\$148.70	\$241.86																									
		Total	(g) = (e) + (f)	\$32.10	\$57.20	\$73.92	\$90.66	\$107.39	\$124.11	\$207.77	\$341.63	nuary 1, 2021	(w)	\$6.00	\$0.80	\$2.16	\$0.04580	\$0.00212	\$0,00002	80,00090	\$0.00118	(\$0.00073)	\$0.00288	\$0.00015	\$0,00005	\$0.00000	\$0.00931	\$0.03096	(\$0.00189)	\$0.00038	(\$0.00074)	\$0.01353	\$0.09568	(\$0.00294)	\$0.00230	\$0.00866 \$0.00 \$0.80 \$2.16 \$0.02945 \$0.05633 \$0.0082)
		GET	E	\$1.28	\$2.29	\$2.96	\$3.63	\$4.30	\$4.96	\$8.31	\$13.67	Proposed Rates effective January 1, 2021																								
January 1, 202	populad	Total	= (b) + (c) + (d)	\$30.82	\$54.91	\$70.96	\$87.03	\$103.09	\$119.15	\$199.46	\$327.96	Proposed Rai																								
Proposed Rates effective January 1, 2021	Income	Low income Discounted	(d) = [(b)+(c)] $(e) = (b) + (c)x25$ $+ (d)$	(\$10.27)	(\$18.30)	(\$23.66)	(\$29.01)	(\$34.37)	(\$39.72)	(\$66.49)	(\$109.32)																									
Proposed 1	and I our	Services Die	=(p) (o)	\$15.56	\$31.11	\$41.48	\$51.85	\$62.22	\$72.59	\$124.44	\$207.40								101																	
				\$25.53	\$42.10	\$53.14	\$64.19	\$75.24	\$86.28	\$141.51	\$229.88					arge			onemation rac					tor		ō	nergy Charge								ctor	
	Dalie	Services	(g)	S	Š	Ś	Š	S	Š	SI.	\$2.			arge	narge	h Program Cha	cWh)	Expense Char	Expense Rect	tor	1stment Factor)I.	nt Factor	djustment Fact	ctor	covery Factor	r Kenewable E		Factor	le Factor		n Charge	se Charge		Adjustment Fac	ard Charge harge
	Monthly	kWh	(a)	150	300	400	200	009	700	1,200	2,000			(1) Distribution Customer Charge					(b) Operating & Maintenance Expense Reconcination Factor (7) Carle Factor Charge				(11) Storm Fund Replenishment Factor	(12) Arrearage Management Adjustment Factor	(13) Performance Incentive Factor	(14) Low Income Discount Recovery Factor	 Long-term Contracting for Kenewable Energy Charge Net Metering Charge 	(17) Base Transmission Charge	(18) Transmission Adjustment Factor	(19) Transmission Uncollectible Factor	(20) Base Transition Charge	(22) Energy Efficiency Program Charge		(24) SOS Adjustment Factor	(25) SOS Adminstrative Cost Adjustment Factor (25) Danamakla Engree Standard Charge	(26) Kenewable Energy Standard Charge Line them on Bill Car Customer Charge (28) LiHEAP Enhancement Charge (28) LiHEAP Enhancement Charge (30) Transmission Charge (31) Distribution Energy Charge (32) Transition Charge (33) Energy Efficiency Programs (33) Energy Efficiency Programs

Column (w); per Summany of Retail Delivery Service Rates, R.I.P.U.C., No. 2095 effective 10/1/2020, and Summany of Rates Standard Offer Service tariff, R.I.P.U.C., No. 2096, effective 10/1/2020; Line (22) Per Docket 5076, Schedule A, Line (17), Year 2022 (Bates page 150) + \$0.00030 for renewables charge

		Prof	posed Rates effect	Proposed Rates effective January 1, 2021	11			Proposed	Proposed Rates effective January 1, 2022	January 1, 2022				\$ Increase (Decrease)	crease)		Inch	Increase (Decrease) % of Total Bill	% of Total Bill	I	Percentage
Monthly	Delivery	Supply	Low Income Discounted	Discounted			Delivery	Supply Lo	le Di									Supply			of Customers
kWh	Services	Services	Discount	Total	GET	Total					GET	Total			GET			Services	GET	Total	
(a)	(Q)	9	(d) = [(b)+(c)] $(e) = (b) + (c)x-30$ $+ (d)$	(e) = (b) + (c) + (d)	€	(g) = (e) + (f)	(F)	() ()	(j) = $[(h)+(i)]$ (k) x30	(k) = (h) + (i) + (j)	(E)	(m) = (k) + (l)	έ	(o) = (i) - (c)	(b) - (l) = (d)	(d) = (n) + (o) + (p)	$(r) = (n) \div (b) + (d)]$ (s	છ	$(g) \div (p) = (u) (f) \div (g) = (f)$	(g) ÷ (b) = (3
150	\$25.53	\$15.56	(\$12.33)	\$28.76	\$1.20	\$29.96	\$26.43	\$15.56	(\$12.60)	\$29.39	\$1.22	\$30.61	\$0.63	80.00	\$0.02	\$9.08	2.1%	0.0%	0.1%	2.2%	32.1%
300	\$42.10	\$31.11	(\$21.96)	\$51.25	\$2.14	\$53.39	\$43.90	\$31.11	(\$22.50)	\$52.51	\$2.19	\$54.70	\$1.26	80.00	\$0.05	\$1.31	2.4%	0.0%	0.1%	2.5%	15.4%
400	\$53.14	\$41.48	(\$28.39)	\$66.23	\$2.76	\$68.99	\$55.54	\$41.48	(\$29.11)	\$67.91	\$2.83	\$70.74	\$1.68	\$0.00	\$0.07	\$1.75	2.4%	0.0%	0.1%	2.5%	12.5%
200	\$64.19	\$51.85	(\$34.81)	\$81.23	\$3.38	\$84.61	\$67.19	\$51.85	(\$35.71)	\$83.33	\$3.47	886.80	\$2.10	\$0.00	80.09	\$2.19	2.5%	0.0%	0.1%	2.6%	%9.6
009	\$75.24	\$62.22	(\$41.24)	\$96.22	\$4.01	\$100.23	\$78.83	\$62.22	(\$42.32)	\$98.73	24.11	\$102.84	\$2.51	80.00	\$0.10	\$2.61	2.5%	0.0%	0.1%	2.6%	7.2%
700	\$86.28	\$72.59	(\$47.66)	\$111.21	\$4.63	\$115.84	\$90.48	\$72.59	(\$48.92)	\$114.15	\$4.76	\$118.91	\$2.94	80.00	\$0.13	\$3.07	2.5%	0.0%	0.1%	2.7%	16.4%
1,200	\$141.51	\$124.44	(\$79.79)	\$186.16	87.76	\$193.92	\$148.70	\$124.44	(\$81.94)	\$191.20	27.97	\$199.17	\$5.04	\$0.00	\$0.21	\$5.25	2.6%	0.0%	0.1%	2.7%	5.2%
2,000	\$229.88	\$207.40	(\$131.18)	\$306.10	\$12.75	\$318.85	\$241.86	\$207.40	(\$134.78)	\$314.48	\$13.10	\$327.58	\$8.38	\$0.00	\$0.35	\$8.73	2.6%	0.0%	0.1%	2.7%	1.6%
				Proposed Ra	Proposed Rates effective January 1, 2021	mary 1, 2021				Proposed Rate	Proposed Rates effective January 1, 2022	ary 1, 2022	Lir	Line Item on Bill							
						(w)						(x)									
(1) Distribution Customer Charge						\$6.00						86.00	Cust	Customer Charge							
						80.80						80.80	H	LIHEAP Enhancement Charge	nt Charge						
	ogram Charge					\$2.16						\$2.16	RE	RE Growth Program							
						\$0.04580						\$0.04580									
(5) Operating & Maintenance Expense Charge (6) Operating & Maintenance Expense Deconciliation Factor	pense Charge	an Factor				\$0.00212						\$0.00212									
	Alise reconciliate	TOTAL TRANSPORT				\$0.00396						\$0,00396									
						\$0.00090						\$0.00090									
(9) Revenue Decoupling Adjustment Factor	ent Factor					\$0.00118						\$0.00118	Di	Distribution Energy Charge	' Charge						
(10) Pension Adjustment Factor						(\$0.00073)					-	(\$0.00073)									
(11) Storm Fund Replenishment Factor	actor					\$0.00288						\$0.00288									
(12) Arrearage Management Adjustment Factor	tment Factor					\$0.00015						\$0.00015									
(13) Performance Incentive Factor						\$0,00005						\$0,00005									
(14) Low media Discount Recovery Factor (15) Long-term Contracting for Renewable France Charge	Ly Lactor	haroe				\$0.0000						50.00000									
(16) Net Metering Charge	o Grand armina	20				\$0.00266						\$0.00266	Re	Renewable Energy Distribution Charge	Distribution Cl.	narge					
(17) Base Transmission Charge						\$0.03096						\$0.03096									
(18) Transmission Adjustment Factor	tor					(\$0.00189)					-	(\$0.00189)	Τ̈́	Transmission Charge	že						
(19) Transmission Uncollectible Factor	actor					\$0.00038						\$0.00038									
(20) Base Transition Charge (21) Transition Admentant						(\$0.00074)						(\$0.00074)	Tre	Transition Charge							
(22) Energy Efficiency Program Charge	narge					\$0.01353						\$0.01952	Ener	Energy Efficiency Programs	ograms						
	harge					\$0.09568						\$0.09568									
SOS Adjustment Factor						(\$0.00294)					_	(\$0.00294)	Sul	Supply Services Energy Charge	ergy Charge						
(25) SOS Adminstrative Cost Adjustment Factor (26) Renewable Energy Standard Charge	Istment Factor Tharge					\$0.00230 \$0.00866						\$0.00230 \$0.00866		,	3						
Line Item on Bill						9						90 %									
(2.7) Customer Charge (28) LIHEAP Enhancement Charge	9					\$6.00						80.80 80.80									
						\$2.16						\$2.16									
(30) Transmission Charge						\$0.02945						\$0.02945									
(31) Distribution Energy Charge (32) Transition Charge						(\$0.00082)					_	\$0.05633 (\$0.00082)									
	Charge					\$0.01353					Ш	\$0.01952									
	ii Cinai ge					\$0.10370						\$0.10370									
 Discount percentage 						30%						30%									

Column (w); per Summany of Retail Delivery Service Rates, R.I.P.U.C. No. 2095 effective 10/1/2020, and Summany of Rates Standard Offer Service tariff, R.I.P.U.C. No. 2096, effective 10/1/2020; Line (17), Year 2022 (Bates page 150) + \$5,000030 for renewables change

The Narragansett Electric Company
Calculation of Monthly Typical Bill
Total Bill Impact of Proposed
Rates Applicable to C-06 Rate Customers

Proposed Rates effective January 1, 2022

The Narragansett Electric Company
4/b5a National Grid
RIPUC Docket 5076
Attachment 1-37 (5)
High Scenario Year 2

Page 4 of 6

16.9% 8.1%

2.3% 2.6% 2.8% 2.8%

0.1%

0.1%

56.3%

Percentage of Customers

> Total (m)

5.0%

13.6%

Monthly kWh	Delivery Services	Supply Services	GET	Total	Delivery Services	Supply Services	GET	Total	Delivery Services	Supply Services	GET	Total	Delivery Services	Supply Services	8
(a)	(q)	(c)	(p)	(e)	(q)	(c)	(p)	(e)	(t)	(g)	(h)	(i)	9	(k)	1)
250	\$41.13	\$23.34	\$2.69	\$67.16	\$42.63	\$23.34	\$2.75	\$68.72	\$1.50	\$0.00	\$0.06	\$1.56	2.2%	0.0%	
200	\$68.11	\$46.67	\$4.78	\$119.56	\$71.10	\$46.67	\$4.91	\$122.68	\$2.99	\$0.00	\$0.13	\$3.12	2.5%	0.0%	
1,000	\$122.06	\$93.34	\$8.98	\$224.38	\$128.05	\$93.34	\$9.22	\$230.61	\$5.99	\$0.00	\$0.24	\$6.23	2.7%	0.0%	
1,500	\$176.02	\$140.01	\$13.17	\$329.20	\$185.00	\$140.01	\$13.54	\$338.55	\$8.98	\$0.00	\$0.37	\$9.35	2.7%	0.0%	
2,000	\$229.97	\$186.68	\$17.36	\$434.01	\$241.95	\$186.68	\$17.86	\$446.49	\$11.98	\$0.00	\$0.50	\$12.48	2.8%	0.0%	
		Decompand	Doton offication I amount 1 2021	1 2001		December	December of Dates of Scatters I consequent 1 2002	1 2022	-	I inc Item on Dill					
			dies ellective sa	(0)		N DOSCO OI I	ates effective sa	(p)	-1	alle trelli oli billi					
(1) Distribution Customer Charge				\$10.00				\$10.00	Ó	Customer Charge					
(2) LIHEAP Enhancement Charge				\$0.80				\$0.80		LIHEAP Enhancement Charge	nent Charge				
(3) Renewable Energy Growth Program Charge	ram Charge			\$3.35				\$3.35	R	RE Growth Program	u u				
(4) Distribution Charge (per kWh)				\$0.04482				\$0.04482							
(5) Operating & Maintenance Expense Charge	nse Charge			\$0.00212				\$0.00212							
(6) Operating & Maintenance Expense Reconciliation Factor	se Reconciliation F	actor		\$0.00002				\$0.00002							
(7) CapEx Factor Charge				\$0.00339				\$0.00339							
(8) CapEx Reconciliation Factor				\$0.00085				\$0.00085							
(9) Revenue Decoupling Adjustment Factor	Factor			\$0.00118				\$0.00118	I	Distribution Energy Charge	y Charge				
(10) Pension Adjustment Factor				(\$0.00073)				(\$0.00073)							
(11) Storm Fund Replenishment Factor	ıc			\$0.00288				\$0.00288							
(12) Arrearage Management Adjustment Factor	ent Factor			\$0.00015				\$0.00015							
(13) Performance Incentive Factor				\$0.00005				\$0.0000\$							
(14) Low Income Discount Recovery Factor	Factor			\$0.00176				\$0.00176							
(15) Long-term Contracting for Renewable Energy Charge	wable Energy Charg	şe		\$0.00931				\$0.00931	1	Danamohla Haarm Dietrikution Chores	Dietribution Ch.	00040			
(16) Net Metering Charge				\$0.00266				\$0.00266	4	cellewable Ellergy	Distribution Cir	an Ric			
(17) Base Transmission Charge				\$0.03110				\$0.03110							
(18) Transmission Adjustment Factor				(\$0.00467)				(\$0.00467)	L	Transmission Charge	rge				
(19) Transmission Uncollectible Factor	or			\$0.00031				\$0.00031							
(20) Base Transition Charge				(\$0.00074)				(\$0.00074)		Transition Charge					
(21) Transition Adjustment				(\$0.00008)				(\$0.00008)		ransinon Cua go					
	eg.			\$0.01353				\$0.01952	E	Energy Efficiency Programs	Programs				
(23) Standard Offer Service Base Charge	arge			\$0.08150				\$0.08150							
	nent Factor			\$0.00224				\$0.00224	S	Supply Services Energy Charge	nergy Charge				
	uge			\$0.00866				\$0.00866							
Line Item on Bill															
(27) Customer Charge				\$10.00				\$10.00							
				\$0.80				\$0.80							
				\$3.35				\$3.35							
(30) Transmission Charge (31) Distribution Energy Charge				\$0.026/4				\$0.026/4							
(32) Transition Charge			ļ	(\$0.00082)			ļ	(\$0.00082)							
(33) Energy Efficiency Programs	horas			\$0.01353				\$0.01952							
(35) Supply Services Energy Charge	o indige			\$0.09334				\$0.09334							

Column (0): per Summary of Retail Delivery Service Rates, R.L.P.U.C. No. 2095 effective 10/1/2020, and Summary of Rates Standard Offer Service tariff, R.L.P.U.C. No. 2096, effective 10/1/2020, Line (22) Column (p): All lines except Line (22) per Summary of Retail Delivery Service Rates, R.L.P.U.C. 2095 effective 10/1/2020, and Summary of Rates Standard Offer Service tariff, R.L.P.U.C. No. 2096, effective 10/1/2020, Line (22) Per Docket 5076, Schectule A, Line (17), Year 2022 (Bates page 150) + 80.00030 for renewables charge

The Narngansett Electric Company
db/a National Grid
RIPIC Docket 5076
Attachment 1-73 (5)
High Soemind Year 2
Page 5 of 6

The Narragansett Electric Company
Calculation of Monthly Typical Bill
Total Bill Impact of Proposed
Rates Applicable to G-02 Rate Customers

| | | | 0.1% | Total (m) (m) 0.1% 0.1% | Total (m) (m) 0.1% 0.1% 0.1% | Total (m) (m) 0.1% 0.1% 0.1% 0.1% 0.1%
 | Total (m) 0.1% (m) 0.1% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1% | (m) (1)% (m) 0.1% (n)

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Proposed Rates effective January 1, 2021 Erroposed Rates effective January 1, 2022 (p) (p) (p) (p)	\$145.00 Customer Charge	\$0.80 LIHEAP Enhancement Charge \$32.45 RF Growth Droneum	06'98	\$0.97 Lystrolution Demand Charge					(5 (1001)(8) (6 (1001)(8) (6 (1001)(8) (8 (1001)(8) (9 (1				\$0.00931	\$0.00266 Selewable Energy Distribution Charge	\$4.37 Transmission Demand Charge	\$0.01214				(\$0.00008)				\$0.00224	980,00866		\$145.00	8080		S	08	08		08) (30)	
Propr	(1) Distribution Customer Charge	(2) LIHEAP Enhancement Charge (3) Renewable Finerov Growth Process		(5) CapEx Factor Demand Charge (per kW > 10kW)	(6) Distribution Charge (per kWh)	(7) Operating & Maintenance Expense Charge	(9) CapEx Reconciliation Factor	(10) Revenue Decoupling Adjustment Factor	(11) Fension Adjustment Factor (12) Storm Find Renjemishment Factor	(13) Arrearage Management Adjustment Factor	(14) Performance Incentive Factor	(15) Low Income Discount Recovery Factor	(16) Long-term Contracting for Renewable Energy Charge	(17) Net Metering Charge	(18) Transmission Demand Charge	(19) Base Transmission Charge	(20) Transmission Adjustment Factor	(21) Transmission Uncollectible Factor	(22) Base Transition Charge		(24) Energy Efficiency Program Charge	(25) Standard Offer Service Base Charge	(26) SOS Adjustment Factor	(27) SOS Adminstrative Cost Adjustment Factor	(28) Renewable Energy Standard Charge	Line Item on Bill	(29) Customer Charge	(31) LIHEAP Enhancement Charge	(30) RE Growth Program	(32) Transmission Adjustment	(33) Distribution Energy Charge	(33) Distribution Energy Charge (34) Distribution Demand Charge	(33) Distribution Energy Charge (34) Distribution Demand Charge (37) Transmission Demand Charge	(33) Distribution Energy Charge (34) Distribution Demand Charge (35) Transition Charge (34) Transition Charge	(33) Distribution Bengy Charge (34) Distribution Demand Charge (35) Transmission Demand Charge (34) Transmission Demand Charge (34) Transmission Demand Charge (35) Energy Birticacy Programs

Column (0): per Summary of Reatal Delivery Service Rates, R.L.P.U.C. No. 2095 effective 10/1/2020, and Summary of Rates Standard Offer Service tariff, R.L.P.U.C. No. 2096, effective 10/1/2020, Line (24) per Docket 3076, Schedule A. Line (17), Year 2022 (Bates page 150) + \$0.00030 for renewables charge

The Narragansett Electric Company
dbba National Grid
RPUC Docket 5076
Attachment 1-37 (5)
High Scenario Year 2
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Calculation of Monthly Typical Bill Total Bill Illinguise of Proposed Research State Concentral State Conce

			P	Proposed Rates effective January 1	ctive January 1. 20	721	Prof	Proposed Rates effective January	ive January 1, 26)22		S Increase (Decrease	Occrease)		Increase (Increase (Decrease) % of Total Bil	% of Tota	Bill
	Monthly Power		Delivery	Supply			Delivery	Supply			Delivery	Supply		^	Selivery Supply	hply		
kW	Hours Use	kWh	Services (b)	Services (c)	GET G	Total (e)	Services (b)	Services (c)	G GET	Total (e)	Services (f)	Services (g)	GET (II)	Total S	ervices Ser	rvices (K)	E -	otal
200	200	40,000	\$4,172.35	\$2,951.60	\$296.83	\$7,420.78	\$4,411.95	\$2,951.60	\$306.81	\$7,670.36	\$239.60	\$0.00	86.6\$	\$249.58	3.2%	9.00	0.1%	3.4%
750	200	150,000	\$15,316,45	\$11,068.50	\$1,099.37	\$27,484.32	\$16,214.95	\$11,068.50	\$1,136.81	\$28,420.26	\$898.50	\$0.00		\$935.94	3.3%	0.0%	0.1%	3.4%
1,000	200	200,000	\$20,381.95	\$14,758.00	\$1,464.16	\$36,604.11		\$14,758.00	\$1,514.08	\$37,852.03	\$1,198.00	\$0.00		\$1,247.92	3.3%	0.0%	0.1%	3.4%
1,500	200	300,000		\$22,137.00	\$2,193.75	\$54,843.70		\$22,137.00	\$2,268.62	\$56,715.57	\$1,797.00	\$0.00		\$1,871.87	3.3%	0.0%	0.1%	3.4%
2,500	200	200,000		\$36,895.00	\$3,652.91	\$91,322.86		\$36,895.00	\$3,777.71	\$94,442.66	\$2,995.00	\$0.00		\$3,119.80	3.3%	%0.0	%1.0	3.4%
5,000	200	1,000,000		\$73,790.00	\$7,300.83	\$182,520.78	\$107,419.95	\$73,790.00	\$7,550.42	\$188,760.37	\$5,990.00	\$0.00		\$6,239.59	3.3%	0.0%	%1.0	3.4%
7,500	200	1,500,000		\$110,685.00	\$10,948.75	\$273,718.70	\$161,069.95	\$110,685.00	\$11,323.12	\$283,078.07	\$8,985.00	\$0.00	\$374.37	\$9,359.37	3.3%	0.0%	%1.0	3.4%
10,000	200	2,000,000	•	\$147,580.00	\$14,596.67	\$364,916.62	\$214,719.95	\$147,580.00	\$15,095.83	\$377,395.78	00.086,118	20.00	\$499.16 \$12,479.16	12,479.16	3.3%	0.0%	%1:0	3.4%
20,000	200	4,000,000	\$405,359.95	\$295,160.00	\$29,188.33	\$729,708.28	\$429,319.95	\$295,160.00	\$30,186.67	\$754,666.62	\$23,960.00	\$0.00	\$998.34 \$.	\$24,958.34	3.3%	90.0	0.1%	3.4%
200	300	60,000		\$4,427.40	\$398.12	\$9,953.07	\$5,486.95	\$4,427.40	\$413.10	\$10,327.45	\$359.40	\$0.00	\$14.98	\$374.38	3.6%	%0.0	0.2%	3.8%
750	300	225,000		\$16,602.75	\$1,479.22	\$36,980.42	\$20,246.20	\$16,602.75	\$1,535.37	\$38,384,32	\$1,347.75	\$0.00	\$56.15	\$1,403.90	3.6%	0.0%	0.2%	3.8%
1,000	300	300,000		\$22,137.00	\$1,970.62	\$49,265.57	\$26,954.95	\$22,137.00	\$2,045.50	\$51,137,45	\$1,797.00	\$0.00		\$1,871.88	3.6%	0.0%	0.2%	3.8%
1,500	300	450,000		\$33,205.50	\$2,953.44	\$73,835.89	\$40,372.45	\$33,205.50	\$3,065.75	\$76,643.70	\$2,695.50	\$0.00		\$2,807.81	3.7%	0.0%	0.2%	3.8%
2,500	300	750,000		\$55,342.50	\$4,919.06	\$122,976.51	\$67,207.45	\$55,342.50	\$5,106.25	\$127,656.20	\$4,492.50	\$0.00		\$4,679.69	3.7%	0.0%	0.2%	3.8%
2,000	300	1,500,000		\$110,685.00	\$9,833.12	\$245,828.07	\$134,294.95	\$110,685.00	\$10,207.50	\$255,187.45	\$8,985.00	\$0.00	\$374.38	\$9,359.38	3.7%	9.00	0.2%	3.8%
7,500	300	2,250,000	\$187,904.95	\$166,027.50	\$14,747.19	\$368,679.64	\$201,382.45	\$166,027.50	\$15,308.75	\$382,718.70	\$13,477.50	\$0.00	\$561.56 \$14,039.06	14,039.06	3.7%	0.0%	0.2%	3.8%
10,000	300	3,000,000		\$221,370.00	\$19,661.25	\$491,531.20	\$268,469.95	\$221,370.00	\$20,410.00	\$510,249.95	00.079,718	\$0.00	\$748.75 \$18,718.75	18,718.75	3.7%	0.0%	0.2%	3.8%
20,000	300	6,000,000	\$500,879.95	\$442,740.00	\$39,317.50	\$982,937.45	\$536,819.95	\$442,740.00	\$40,815.00	\$1,020,374.95	\$35,940.00	\$0.00	81,497.50 \$37,437.50	37,437.50	3.7%	0.0%	0.2%	3.8%
200	400	80,000		\$5,903.20	\$499.41	\$12,485.36	\$6,561.95	\$5,903.20	\$519.38	\$12,984.53	\$479.20	\$0.00	\$19.97	\$499.17	3.8%	0.0%	0.2%	4.0%
750	400	300,000	•	\$22,137.00	\$1,859.06	\$46,476.51		\$22,137.00	\$1,933.94	\$48,348.39	\$1,797.00	\$0.00	\$74.88	\$74.88 \$1,871.88	3.9%	0.0%	0.2%	4.0%
1,000	400	400,000		\$29,516.00	\$2,477.08	\$61,927.03		\$29,516.00	\$2,576.91	\$64,422.86	\$2,396.00	\$0.00	\$99.83	\$2,495.83	3.9%	0.0%	0.2%	4.0%
1,500	400	600,000		\$44,274.00	\$3,713.12	\$92,828.07		\$44,274.00	\$3,862.87	\$96,571.82	\$3,594.00	\$0.00	\$149.75 \$3,743.75	\$3,743.75	3.9%	0.0%	0.2%	4.0%
2,500	400	1,000,000		\$73,790.00	\$6,185.21	\$154,630.16		\$73,790.00	\$6,434.79	\$160,869.74	\$5,990.00	\$0.00	\$249.58 \$6,239.58	\$6,239.58	3.9%	0.0%	0.2%	4.0%
5,000	400	2,000,000		\$147,580,00	\$12,365.42	\$309,135.37		\$147,580.00	\$12,864.58	\$321,614.53	00.086,118	\$0.00	\$499.16 \$12,479.16	12,479.16	3.9%	0.0%	0.2%	4.0%
7,500	400	3,000,000		\$221,370.00	\$18,545.62	\$463,640.57		\$221,370.00	\$19,294.37	\$482,359.32	00.079,718	\$0.00	\$748.75 \$18,718.75	18,718.75	3.9%	0.0%	0.2%	4.0%
10,000	400	4,000,000		\$295,160.00	\$24,725.83	\$618,145.78		\$295,160.00	\$25,724.17	\$643,104.12	\$23,960.00	\$0.00	\$998.34 \$24,958.34	24,958.34	3.9%	0.0%	0.2%	4.0%
20,000	400	8,000,000		\$590,320,00	\$49,446.67	\$1,236,166.62	S.	\$590,320.00	\$51,443.34	\$1,286,083.29	\$47,920.00	\$0.00	\$1,996.67 \$49,916.67	49,916.67	3.9%	0.0%	0.2%	4.0%
200	200	100,000		\$7,379.00	\$600.71	\$15,017.66	\$7,636.95	\$7,379.00	\$625.66	\$15,641.61	00'665\$	\$0.00		\$623.95	4.0%	%0.0	0.2%	4.2%
750	200	375,000		\$27,671.25	\$2,238.90	\$55,972.60	\$28,308.70	\$27,671.25	\$2,332.50	\$58,312,45	\$2,246.25	\$0.00	\$93.60	\$2,339.85	4.0%	0.0%	0.2%	4.2%
1,000	200	500,000		\$36,895.00	\$2,983.54	\$74,588.49	\$37,704.95	\$36,895.00	\$3,108.33	\$77,708.28	\$2,995.00	\$0.00	\$124.79	\$3,119.79	4.0%	9.00	0.2%	42%
1,500	200	750,000	\$52,004.95	\$55,342.50	\$4,472.81	\$111,820.26	\$56,497.45	\$55,342.50	\$4,660.00	\$116,499.95	\$4,492.50	\$0.00	\$187.19 \$4,679.69	\$4,679.69	4.0%	0.0%	0.2%	4.2%
2,500	200	1,250,000	\$86,594.95	\$92,237.50	\$7,451.35	\$186,283.80	\$94,082.45	\$92,237.50	\$7,763.33	\$194,083.28	\$7,487.50	\$0.00	\$311.98 \$7,799.48	\$7,799.48	4.0%	0.0%	0.2%	42%
2,000	200	2,500,000	\$173,069.95	\$184,475.00	\$14,897.71	\$372,442.66	\$188,044.95	\$184,475.00	\$15,521.67	\$388,041.62	\$14,975.00	\$0.00	\$623.96 \$15,598.96	15,598.96	4.0%	90.0	0.2%	4.2%
7,500	200	3,750,000	\$259,544.95	\$276,712.50	\$22,344.06	\$558,601.51	\$282,007.45	\$276,712.50	\$23,280,00	\$581,999.95	\$22,462.50		\$935.94 \$23,398.44	23,398.44	4.0%	0.0%	0.2%	4.2%
10,000	200	5,000,000	\$346,019.95	\$368,950.00	\$29,790.42	\$744,760.37	\$375,969.95	\$368,950.00	\$31,038.33	\$775,958.28	\$29,950.00	\$ 00.00	1,247.91 \$31,197.91	31,197.91	4.0%	%0.0	0.2%	4.2%
20,000	500	10,000,000	\$691,919.95	\$737,900.00	\$59,575.84	\$1,489,395.79	\$751,819.95	\$737,900.00	\$62,071.67	\$1,551,791.62	\$59,900.00	\$ 00.00		\$62,395.83	4.0%	0.0%	0.2%	4.2%
200	009	120,000		\$8,854.80	\$702.00	\$17,549.95	\$8,711.95	\$8,854.80	\$731.95	\$18,298.70	\$718.80	\$0.00		\$748.75	%1.7%	0.0%	0.2%	4.3%
750	009	450,000	*/	\$33,205.50	\$2,618.75	\$65,468.70	\$32,339.95	\$33,205.50	\$2,731.06	\$68,276.51	\$2,695.50	\$0.00	\$112.31	\$2,807.81	%1.7%	%0.0	0.2%	43%
1,000	009	000,000	*/	\$44,274.00	\$3,490.00	\$87,249.95	\$43,079.95	\$44,274.00	\$3,639.75	\$90,993.70	\$3,594.00	\$0.00		\$3,743.75	4.1%	0.0%	0.2%	4.3%
1,500	009	000'006	\$59,168.95	\$66,411.00	\$5,232.50	\$130,812.45	\$64,559.95	\$66,411.00	\$5,457.12	\$136,428.07	\$5,391.00	\$0.00	\$224.62	\$5,615.62	4.1%	9.00	0.2%	43%
2,500	009	1,500,000		\$110,685.00	\$8,717.50	\$217,937.45	\$107,519.95	\$110,685.00	29,091.87	\$227,296.82	\$8,985.00	\$0.00	\$374.37 \$9,359.37	\$9,359.37	4.1%	0.0%	0.2%	4.3%
5,000	009	3,000,000		\$221,370.00	\$17,430.00	\$435,749.95	\$214,919.95	\$221,370.00	\$18,178.75	\$454,468.70	00.079,718	\$0.00	\$748.75 \$18,718.75	18,718.75	4.1%	0.0%	0.2%	4.3%
7,500	009	4,500,000		\$332,055.00	\$26,142.50	\$653,562.45	\$322,319.95	\$332,055.00	\$27,265.63	\$681,640.58	\$26,955.00		81,123.13 \$28,078.13	28,078.13	4.1%	9.00	0.2%	4.3%
10,000	009	6,000,000		\$442,740.00	\$34,855.00	\$871,374.95	\$429,719.95	\$442,740.00		\$908,812,45	\$35,940.00			37,437.50	4.1%	0.0%	0.2%	4.3%
20,000	009	12,000,000	\$787,439.95	\$885,480.00	\$69,705.00	\$1,742,624.95	\$859,319.95	\$885,480.00	\$72,700.00	\$1,817,499.95	571,880.00	\$ 0000	\$2,995.00 \$	\$74,875.00	4.1%	0.0%	0.2%	4.3%
				ď	Donate of Contra	Tomas 1 2001		ď	Date of the second	. I.	-	d me Trans						
				Prof	Proposed Kates effective January 1, 2021	ve January 1, 2021		Propose.	d Kates enective	Proposed Kates effective January 1, 2022	_	Line Item on Bill	=					

The Narragansett Electric Company Calculation of Monthly Typical Bill Total Bill Impact of Proposed Rates Applicable to A-16 Rate Customers

The Narragansett Electric Company
db.a National Grid
RPUC Docket 5076
Attachment 1-37 (6)
High Scenario Year 3
Page 1 of 6

Monthly kWh	Delivery	Cummlin					r 10 Joseph Mates effective January 1, 2023	0.73		CATALOGICA	\$ Increase (Decrease)			TILLIAN CONTRACT	increase (Decrease) % of Total Bill		Leicelliage
(Services	Services	J	Total	Se si	Supply Services	GET	Total			,	Total	Delivery			Total	of Customers
(a)	(p)	(c)	(d) (e)	(e) = (a) + (b) + (c)	(t)	(g)	(h) (i	(i) = (f) + (g) + (h)	(j) = (f) - (b) ((k) = (g) - (c) (l	(l) = (h) - (d)	(m) = (j) + (k) + (l)	(n) = (j) / (e)	(o) = (g) / (e)	(b) = (h) / (e)	(d) = (m) / (e)	(r)
150	\$26.69	\$15.56	\$1.76	\$44.01	\$27.23	\$15.56	\$1.78	\$44.57	\$0.54	\$0.00	\$0.02	\$0.56	1.2%	0.0%	%0'0	1.3%	30.1%
300	\$44.42	\$31.11	\$3.15	\$78.68	\$45.50	\$31.11	\$3.19	\$79.80	\$1.08	\$0.00	\$0.04	\$1.12	1.4%	0.0%	0.1%	1.4%	12.9%
400	\$56.24	\$41.48	\$4.07	\$101.79	\$57.68	\$41.48	\$4.13	\$103.29	\$1.44	\$0.00	\$0.06	\$1.50	1.4%	0.0%	0.1%	1.5%	11.6%
200	\$68.07	\$51.85	\$5.00	\$124.92	\$69.86	\$51.85	\$5.07	\$126.78	\$1.79	\$0.00	\$0.07	\$1.86	1.4%	0.0%	0.1%	1.5%	%9.6
009	\$79.89	\$62.22	\$5.92	\$148.03	\$82.04	\$62.22	\$6.01	\$150.27	\$2.15	\$0.00	\$0.09	\$2.24	1.5%	0.0%	0.1%	1.5%	7.7%
700	\$91.71	\$72.59	\$6.85	\$171.15	\$94.22	\$72.59	\$6.95	\$173.76	\$2.51	\$0.00	\$0.10	\$2.61	1.5%	0.0%	0.1%	1.5%	19.0%
1,200	\$150.81	\$124.44	\$11.47	\$286.72	\$155.12	\$124.44	\$11.65	\$291.21	\$4.31	\$0.00	\$0.18	\$4.49	1.5%	%0.0	0.1%	1.6%	%8.9
2,000	\$245.38	\$207.40	\$18.87	\$471.65	\$252.56	\$207.40	\$19.17	\$479.13	\$7.18	\$0.00	\$0.30	\$7.48	1.5%	0.0%	0.1%	1.6%	2.3%
		Propos	sed Rates effectiv	Proposed Rates effective January 1, 2022		Propose	ed Rates effectiv	Proposed Rates effective January 1, 2023		Line Item on Bill							
				(s)				(t)	II								
				\$6.00				\$6.00	S	Customer Charge							
	6 3			\$0.80				\$0.80	7	LIHEAP Enhancement Charge	ment Charge						
(3) Renewable Energy Growth Program Charge	ogram Charge			\$2.16				\$2.16	R	RE Growth Program	m						
	_			\$0.04580				\$0.04580									
	ense Charge			\$0.00212				\$0.00212									
	ense Reconciliation I	Factor		\$0.00002				\$0.00002									
(7) CapEx Factor Charge				\$0.00396				\$0.00396									
	int Factor			\$0.00030				\$0.00030	Q	Distribution Energy Charge	v Charge						
	out i actor			(\$0.00073)				(\$0.00073)	1		30						
(11) Storm Fund Replenishment Factor	ctor			\$0.00288				\$0.00288									
(12) Arrearage Management Adjustment Factor	ment Factor			\$0.00015				\$0.00015									
(13) Performance Incentive Factor				\$0.00005				\$0.00005									
(14) Low Income Discount Recovery Factor	ry Factor			\$0.00176				\$0.00176									
(15) Long-term Contracting for Renewable Energy Charge	newable Energy Char	ase ase		\$0.00931				\$0.00931	×.	Renewable Energy Distribution Charge	· Distribution Ch	arge					
(16) Net Metering Charge				\$0.00266				\$0.00266	•	G		20					
(17) Base Transmission Charge				\$0.03096				\$0.03096									
(18) Transmission Adjustment Factor	:or			(\$0.00189)				(\$0.00189)	I	Transmission Charge	rge						
(19) Transmission Uncollectible Factor	ctor			\$0.00038				\$0.00038									
(20) Base Haustron Charge (21) Transition Adjustment				(\$0,000,04)				(\$0,0008)	F	Transition Charge							
(22) Energy Efficiency Program Charge	arge			\$0.01952				\$0.02311	Ä	Energy Efficiency Programs	Programs						
	harge		_	\$0.09568			-	\$0.09568									
(24) SOS Adjustment Factor				(\$0.00294)				(\$0.00294)	Š	Supply Services Energy Charge	nergy Charge						
(25) SOS Adminstrative Cost Adjustment Factor (26) Renewable Energy Standard Charge	stment Factor			\$0.00230				\$0.00230			3						
	b																
(27) Customer Charge				\$6.00				\$6.00									
(28) LIHEAP Enhancement Charge (29) P.F. Grouth Program	0			\$0.80				\$0.80									
			kWh x	\$0.02945				\$0.02945									
(31) Distribution Energy Charge			kWh x	\$0.05809				\$0.05809									
(32) Transition Charge			kWh x	(\$0.00082)			L	(\$0.00082)									
(33) Energy Efficiency Programs	2		kWh x	\$0.01952				\$0.02311									
(34) Kenewadie Energy Distribution (35) Supply Services Freezy Charge	ii Ciiai ge		kWh x	\$0.10370				\$0.10370									

Column (s): All lines except Line (22) per Summany of Retail Delivery Service Rates, R.1.P.U.C. 2095 effective 10/1/2020, and Summany of Rates Standard Offer Service tariff, R.1.P.U.C. No. 2096, effective 10/1/2020; Line (22) Per Docket 5076, Selbedale A, Line (17), Yeart 2022 (Base apage 150) + 50.00030 for trenewables change Column (s) Rates Standard Offer Service tariff, R.1.P.U.C. No. 2096, effective 10/1/2020, and Summany of Rates Standard Offer Service tariff, R.1.P.U.C. No. 2096, effective 10/1/2020, Line (22) Per Docket 5076, Selbedale A, Line (17), Yeart 2023 (Bases page 150) + 50.00030 for trenewables change

		Pron	Promosed Rates effective Innuary 1 2022	ne January 1 20	22	Ī		Pronog	ed Rates offectiv	Promosed Rates effective January 1 2023				S Increase (Decrease)	(Manga)	t	Incre	Increase (Decreases) % of Total Bill	% of Total Bill	ď	Deroventage
Monthly	Dalimano	Sumak	Low Income Discounted	Discounted			Dalistans	Sumaly	Low Income Discounted	Discounted			Dalivano	Supply	(2000		Dalitoner	Summer		, ,	Cuetomore
kWh	Services	Services	Discount	Total	GET	Total	Services	Services	Discount	Total	GET	Total	_	Services	GET			Services	GET	Total	CUSTORIETS
(a)	(p)	(c)	(a) = [(b) + (c)] (v) x25	(c) = (b) + (c) + (d)	(t)	(g) = (e) + (f)	(h)	(i)	(y) = [(n) + (y)] (x25	(K) = (B) + (B) + (B)	(1)	(m) = (k) + (l)	(u) = [(u)+(0)] - [(p)+(q)]	(o) = (i) - (c) (p	(p) = (l) - (f)	(q) = (n) + (o) + (p)	$(r) = (n) \div (b) + (d)]$ (s)	(s) = (o) ÷ (c) (t	$(t) = (p) \div (f)$ (u)	(g) ÷ (g) = (u)	(v)
150	\$26.43	\$15.56	(\$10.50)	\$31.49	\$1.31	\$32.80	\$26.97	\$15.56	(\$10.63)	\$31.90	\$1.33	\$33.23	\$0.41	80.00	\$0.02	\$0.43	1.2%	0.0%	0.1%	1.3%	32.1%
300	\$43.90	\$31.11	(\$18.75)	\$56.26	\$2.34	\$58.60	\$44.97	\$31.11	(\$19.02)	\$57.06	\$2.38	\$59.44	80.80	80.00	\$0.04	\$0.84	1.4%	0.0%	0.1%	1.4%	15.4%
400	\$55.54	\$41.48	(\$24.26)	\$72.76	\$3.03	\$75.79	\$56.98	\$41.48	(\$24.62)	\$73.84	\$3.08	\$76.92	\$1.08	\$0.00	\$0.05	\$1.13	1.4%	0.0%	0.1%	1.5%	12.5%
500	\$67.19	\$51.85	(\$29.76)	\$89.28	\$3.72	\$93.00	86898	\$51.85	(\$30.21)	\$90.62	\$3.78	\$94.40	\$1.34	80.00	\$0.06	\$1.40	1.4%	0.0%	0.1%	1.5%	%9.6
009	\$78.83	\$62.22	(\$35.26)	\$105.79	14.42	\$110.20	\$80.98	\$62.22	(\$35.80)	\$107.40	\$4.48	\$111.88	\$1.61	80.00	\$0.07	\$1.68	1.5%	0.0%	0.1%	1.5%	7.2%
700	\$90.48	\$72.59	(\$40.77)	\$122.30	\$5.10	\$127.40	\$92.99	\$72.59	(\$41.40)	\$124.18	\$5.17	\$129.35	\$1.88	\$0.00	\$0.07	\$1.95	1.5%	960'0	0.1%	1.5%	16.4%
1,200	\$148.70	\$124.44	(\$68.29)	\$204.85	\$8.54	\$213.39	\$153.01	\$124.44	(\$69.36)	\$208.09	\$8.67	\$216.76	\$3.24	\$0.00	\$0.13	\$3.37	1.5%	0.0%	0.1%	1.6%	5.2%
2,000	\$241.86	\$207.40	(\$112.32)	\$336.94	\$14.04	\$350.98	\$249.04	\$207.40	(\$114.11)	\$342.33	\$14.26	\$356.59	\$5.39	\$0.00	\$0.22	\$5.61	1.5%	0.0%	0.1%	1.6%	1.6%
				Proposed R.	Proposed Rates effective January 1, 2022	inuary 1, 2022				Proposed Ra	Proposed Rates effective January 1, 2023	nuary 1, 2023	יב	Line Item on Bill							
						(w)						(x)									
						\$6.00						\$6.00	ő	Customer Charge	Į.						
(2) LIHEAP Enhancement Charge (3) Renewable Fineroy Growth Program Charge	oram Charoe					\$0.80						\$0.80 \$2.16	ALL RE	LIHEAP Enhancement Charge RF Growth Program	int Charge						
	29					\$0.04580						\$0.04580		1000							
	ense Charge					\$0.00212						\$0.00212									
	ense Reconciliation	on Factor				\$0.00002						\$0.00002									
						\$0.00396						\$0.00396									
(8) CapEx Reconciliation Factor (0) Descent Descending Adjustment Rester	nt Enoton					\$0.00090						\$0.00090	č	Distribution Fnarox Charge	Charge						
	TO THE TABLE					\$0.00118						(\$0.00073)	2	Simonnon Files	Similar						
(11) Storm Fund Replenishment Factor	tor					\$0.00288						\$0.00288									
(12) Arrearage Management Adjustment Factor	ment Factor					\$0.00015						\$0.00015									
(13) Performance Incentive Factor						\$0.00005						\$0.00005									
(14) Low Income Discount Recovery Factor	y Factor					\$0.00000						\$0.00000									
(15) Long-term Contracting for Renewable Energy Charge	ewable Energy C	harge				\$0.00931						\$0.00931	R	Renewable Energy Distribution Charge	Distribution Cha	ırge					
(16) Net Metering Charge						\$0.00266						30.00266									
(17) Base Transmission Charge						\$0.03096						\$0.03096	É	Thomas mission Ohouse	5						
(19) Transmission Uncollectible Factor	itor					\$0.00189)						\$0.00189)	-	ransimission Cita	200						
(20) Base Transition Charge						(\$0.00074)						(\$0.00074)	É	Continue							
(21) Transition Adjustment						(\$0.00008)						(\$0.00008)	1	ransition Citage							
(22) Energy Efficiency Program Charge	arge					\$0.01952						\$0.02311	Enc	Energy Efficiency Programs	ograms						
(23) Standard Offer Service Base Charge	harge					\$0.09568						\$0.09568									
(24) SOS Adjustment Factor (25) SOS Administrativa Cost Adjustment Ecotor	tment Eagler					(\$0.00294)						(\$0.00294)	Sı	Supply Services Energy Charge	ergy Charge						
(26) Renewable Energy Standard Charge	harge					\$0.00866						\$0.00866									
Line Item on Bill																					
(27) Customer Charge						\$6.00						\$6.00									
(28) LIHEAP Enhancement Charge						\$0.80						\$0.80									
(29) KE Growth Program (30) Transmission Charge						\$2.16						\$2.16									
(31) Distribution Energy Charge						\$0.05633						\$0.05633									
(32) Transition Charge					L	(\$0.00082)					L	(\$0.00082)									
(34) Renewable Energy Distribution Charge	ι Charge				_	\$0.01197						\$0.01197									
(35) Supply Services Energy Charge	0					\$0.10370						\$0.10370									
(36) Discount percentage						75%						25%									

Column (w) All lines except Line (22) per Summary of Retail Delivery Service Rates, R.L.P.U.C. 2095 effective 107/2020, and Summary of Rates Standard Offer Service untif, R.L.P.U.C. No. 2096, effective 107/2020; Line (22) Per Docket 5076, Schedule A. Line (17), Vear 2023 (Bates page 189) + \$50,00030 for renewables change

The Narragansett Electric Company Calculation of Monthly Typical Bill Total Bill Impact of Proposed Rates Applicable to A-60 Rate Customers

The Narragansett Electric Company
db/a National Grid
RIPUC Docket 5076
Attacher 577 (6)
High Scenario Year 3
Page 3 of 6

		Drone	Democraci Datas affactiva January 1 2022	OC Louisement assi				Dronocae	1 D ot ac affactive	Domocoad Datas affactive Laurent 1 2023				C Increases (Dacreases)	cmanca)		on our	Increases (Dameses) 92 of Detal Bill	2 of Total Bill	ď	Darcantona
Mondali	Dolinous	Cumbi	Jour Income	Discussion 1, 20	777		Dollarom	Summer I	u rates effective	Spannaly 1, 2023				3 mercase (De	crease)	1		Suml:	70 OI TOTAL DITI	Ī	Customer
Monthly	Delivery	Supply	Low Income Discounted	Discounted	E	Ē	Delivery		Low Income Discounted	Discounted								Supply			of Customers
kWh	Services	Services	Discount $(d) = [(b)+(c)]$	Total $(e) = (b) + (c)$	GET	Total		Services I	Discount (j) = $[(h)+(i)]$ (k)	Total $(k) = (h) + (i)$	GET	Total S (n)	Services S (n) = [(h)+(j)] -	Services	T (b)	Total Sc $(q) = (n) + (o)$	Services S $(r) = (n) \div$	Services	TEL	Total	
(a)	(P)	(c)	x30	(p) +	£)	(g) = (e) + (f)	(h)	(1)	х30	+(j)	(I) (II)	(m) = (k) + (l)		(o) = (i) - (c) (p)	(b) - (l) = (d)	(d) +	(s) [(p)+(q)]	$(s) = (o) \div (c)$ (t	(t) = (p) \div (f) (u)	$(g) \div (g) = (g)$	(v)
150	\$26.43	\$15.56	(\$12.60)	\$29.39	\$1.22	\$30.61	\$26.97	\$15.56	(\$12.76)	\$29.77	\$1.24	\$31.01	\$0.38	80.00	\$0.02	\$0.40	1.2%	0.0%	0.1%	1.3%	32.1%
300	\$43.90	\$31.11	(\$22.50)	\$52.51	\$2.19	\$54.70	\$44.97	\$31.11	(\$22.82)	\$53.26	\$2.22	\$55.48	\$0.75	\$0.00	\$0.03	80.78	1.4%	0.0%	0.1%	1.4%	15.4%
400	\$55.54	\$41.48	(\$29.11)	16'29'	\$2.83	\$70.74	826.98	\$41.48	(\$29.54)	\$68.92	\$2.87	871.79	\$1.01	\$0.00	\$0.04	\$1.05	1.4%	0.0%	0.1%	1.5%	12.5%
200	\$67.19	\$51.85	(\$35.71)	\$83.33	\$3.47	886.80	\$68.98	\$51.85	(\$36.25)	\$84.58	\$3.52	\$88.10	\$1.25	\$0.00	\$0.05	\$1.30	1.4%	0.0%	0.1%	1.5%	%9'6
009	\$78.83	\$62.22	(\$42.32)	\$98.73	22.13	\$102.84	880.98	\$62.22	(\$42.96)	\$100.24	\$4.18	\$104.42	\$1.51	\$0.00	\$0.07	\$1.58	1.5%	0.0%	0.1%	1.5%	7.2%
700	\$90.48	\$72.59	(\$48.92)	\$114.15	\$4.76	\$118.91	\$92.99	\$72.59	(\$49.67)	\$115.91	\$4.83	\$120.74	\$1.76	\$0.00	\$0.07	\$1.83	1.5%	0.0%	0.1%	1.5%	16.4%
1,200	\$148.70	\$124.44	(\$81.94)	\$191.20	76.78	\$199.17	\$153.01	\$124.44	(\$83.24)	\$194.21	88.09	\$202.30	\$3.01	\$0.00	\$0.12	\$3.13	1.5%	0.0%	0.1%	1.6%	5.2%
2,000	\$241.86	\$207.40	(\$134.78)	\$314.48	\$13.10	\$327.58	\$249.04	\$207.40	(\$136.93)	\$319.51	\$13.31	\$332.82	\$5.03	\$0.00	\$0.21	\$5.24	1.5%	0.0%	0.1%	1.6%	1.6%
				Democrat D	December of control of the control o	1 2002				Democracy Date	December of caritor of caritor I cannot I 2000	1 2003	T.	line from Dill							
				Proposed R	cares effective Ja	(w)				Proposed Kat	s enective Jani	(x)	3	ie liem on bill							
(1) Distribution Customer Charge						\$6.00						86.00	Cust	Customer Charge							
						\$0.80						80.80	THI	LIHEAP Enhancement Charge	nt Charge						
(3) Renewable Energy Growth Program Charge	gram Charge					\$2.16						\$2.16	RE (RE Growth Program							
(4) Distribution Charge (per kWh)						\$0.04580						\$0.04580									
	ense Charge					\$0.00212						\$0.00212									
(6) Operating & Maintenance Expense Reconciliation Factor	ense Reconciliation	on Factor				\$0.00002						\$0.00002									
						\$0.00396						\$0.00396									
						\$0.00090						\$0.00090	í	į.	Č						
(9) Revenue Decoupling Adjustment Factor	nt Factor					\$0.00118						50.00118	Z.	Distribution Energy Charge	/ Charge						
(10) Pension Adjustment Factor						(\$0.000/3)					-	(\$0.000/3)									
(11) Storm Fund Replenishment Factor	tor					\$0.00288						50.00288									
(12) Arrearage Management Adjustment Factor	ment Factor					\$0,000						50,000.05									
(13) Performance meenine Factor (14) Low Income Discount Recovery Factor	v Factor					\$0,0000 000000 80						30.00003 S0.00000									
(15) Long-term Contracting for Renewable Energy Charge	ewable Energy Cl	harge				\$0.00931						\$0.00931									
(16) Net Metering Charge	6	0				\$0.00266						\$0.00266	Re	newable Energy 1	Renewable Energy Distribution Charge	rge					
(17) Base Transmission Charge						\$0.03096						\$0.03096									
(18) Transmission Adjustment Factor	×					(\$0.00189)					_	(\$0.00189)	Tra	Transmission Charge	aşe Se						
(19) Transmission Uncollectible Factor	tor					\$0.00038						\$0.00038									
(20) Base Transition Charge						(\$0.00074)						(\$0.00074)	Tra	Transition Charge							
(22) Energy Efficiency Program Charse	rrge					\$0.01952						\$0.02311	Ener	Energy Efficiency Programs	ograms						
	narge					\$0.09568						\$0.09568		0	i.						
(24) SOS Adjustment Factor	,					(\$0.00294)					_	(\$0.00294)	ins	Supply Services Energy Charge	ergy Charge						
(25) SOS Adminstrative Cost Adjustment Factor (26) Renewable Energy Standard Charge	ment Factor					\$0.00230						\$0.00230 \$0.00866									
	00																				
Line item on bill 27) Customer Charge						\$6.00						86.00									
						\$0.80						\$0.80									
(29) KE Growth Program (30) Transmission Charge						\$2.16						\$2.16									
(31) Distribution Energy Charge						\$0.02943						50.02943									
(32) Transition Charge					ļ	(\$0.00082))	(\$0.00082)									
	100					\$0.01952						\$0.02311									
(34) Renewable Energy Distribution Charge (35) Supply Services Energy Charge	Clarge					\$0.10370						\$0.10370									
						30%						30%									

Column (w) All lines except Line (22) per Summary of Retail Delivery Service Rates, R.L.P.U.C. 2095 effective 107/2020, and Summary of Rates Standard Offer Service untif, R.L.P.U.C. No. 2096, effective 107/2020; Line (22) Per Docket 5076, Schedule A. Line (17), Vear 2023 (Bates page 189) + \$50,00030 for renewables change

The Narragansett Electric Company Calculation of Monthly Typical Bill Total Bill Impact of Proposed Rates Applicable to C-06 Rate Customers

The Narragansett Electric Company
thya National Grid
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High Scenario Year 3

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16.9% 8.1% 5.0%

1.4% 1.5% 1.6% 1.7% 3.6%

56.3%

.1% .1% .1% .1%

Percentage of Customers

Total (m)

	Propos	sed Rates effectiv	Proposed Rates effective January 1, 2022	2	Propos	Proposed Rates effective January 1, 2023	January 1, 202.			\$ Increase (Decrease)	ecrease)		ď	Increase (Decrease) % of Total) % of Tota
Monthly	Delivery	Supply			Delivery	Supply			Delivery	Supply			Delivery	Supply	
kWh (a)	Services (b)	Services (c)	GET (d)	Total (e)	Services (b)	Services (c)	GET (d)	Total (e)	Services	Services (g)	GET (h)	Total (i)	Services (i)	Services (k)	GET
250	\$42.63	\$23.34	\$2.75	\$68.72	\$43.52	\$23.34	\$2.79	\$69.65	\$0.89	\$0.00	\$0.04	\$0.93	1.3%	0.0%	0.19
200	\$71.10	\$46.67	\$4.91	\$122.68	\$72.90	\$46.67	\$4.98	\$124.55	\$1.80	\$0.00	\$0.07	\$1.87	1.5%	0.0%	0.19
1,000	\$128.05	\$93.34	\$9.22	\$230.61	\$131.64	\$93.34	\$9.37	\$234.35	\$3.59	\$0.00	\$0.15	\$3.74	1.6%	0.0%	0.19
1,500	\$185.00	\$140.01	\$13.54	\$338.55	\$190.39	\$140.01	\$13.77	\$344.17	\$5.39	\$0.00	\$0.23	\$5.62	1.6%	0.0%	0.19
2,000	\$241.95	\$186.68	\$17.86	\$446.49	\$249.13	\$186.68	\$18.16	\$453.97	\$7.18	\$0.00	\$0.30	\$7.48	1.6%	0.0%	0.19
		Proposed Rates	tates effective Jan	effective January 1, 2022		Proposed R:	Proposed Rates effective January 1, 2023	nary 1, 2023	I	Line Item on Bill					
		•		(0)				(d)	ļ						
(1) Distribution Customer Charge				\$10.00				\$10.00	Ö	Customer Charge					
(2) LIHEAP Enhancement Charge				\$0.80				\$0.80	ī	LIHEAP Enhancement Charge	ent Charge				
(3) Renewable Energy Growth Program Charge	ram Charge			\$3.35				\$3.35	2	RE Growth Program					
(4) Distribution Charge (per kWh)				\$0.04482				\$0.04482							
(5) Operating & Maintenance Expense Charge	ise Charge			\$0.00212				\$0.00212							
(6) Operating & Maintenance Expense Reconciliation Factor	se Reconciliation F	actor		\$0.00002				\$0.00002							
				\$0.00339				\$0.00339							
(8) CapEx Reconciliation Factor				\$0.00085				\$0.00085							
(9) Revenue Decoupling Adjustment Factor	Factor			\$0.00118				\$0.00118	П	Distribution Energy Charge	/ Charge				
(10) Pension Adjustment Factor				(\$0.00073)				(\$0.00073)							
(11) Storm Fund Replenishment Factor	Jr.			\$0.00288				\$0.00288							
(12) Arrearage Management Adjustment Factor	ent Factor			\$0.00015				\$0.00015							
(13) Performance Incentive Factor				\$0.00005				\$0.00005							
(14) Low Income Discount Recovery Factor	Factor			\$0.00176				\$0.00176							
(15) Long-term Contracting for Renewable Energy Charge	wable Energy Charg	şe		\$0.00931				\$0.00931	1	Renewable Energy Distribution Charge	Distribution Cbs	n do			
(16) Net Metering Charge				\$0.00266				\$0.00266		care water care gy	LISTINGUICH CHE	. 50			
(17) Base Transmission Charge				\$0.03110				\$0.03110							
(18) Transmission Adjustment Factor				(\$0.00467)				(\$0.00467)	L	Transmission Charge	ge				
(19) Transmission Uncollectible Factor	ır			\$0.00031				\$0.00031							
(20) Base Transition Charge				(\$0.00074)				(\$0.00074)	L	Transition Charge					
(21) Transition Adjustment				(\$0.00008)				(\$0.00008)		ransmon Charge					
(22) Energy Efficiency Program Charge	es.			\$0.01952				\$0.02311	E	Energy Efficiency Programs	rograms				
(23) Standard Offer Service Base Charge	ırge			\$0.08150				\$0.08150							
(24) SOS Adjustment Factor	ı			\$0.00094				\$0.00094	σ ₂	Supply Services Energy Charge	nergy Charge				
(25) SOS Adminstrative Cost Adjustment Factor	nent Factor			\$0.00224				\$0.00224		,	3				
(20) Kenewabie Energy Standard Charge	agi			\$0.0000				\$0.0000							

Column (o): All lines except Line (22) per Summary of Retail Delivery Service Rates, R.I.P.U.C. 2095 effective 10/1/2020, and Summary of Rates Standard Offer Service tariff, R.I.P.U.C. No. 2096, effective 10/1/2020, Line (22) Per Docket 5076, Schedule A, Line (17), Year 2022 (Bates page 150) + \$0.00030 for renewables charge Column (p): All lines except Line (22) per Summary of Retail Delivery Service Rates, R.I.P.U.C. 2095 effective 10/1/2020, and Summary of Rates Standard Offer Service tariff, R.I.P.U.C. No. 2096, effective 10/1/2020, Line (22) Per Docket 5076, Schedule A, Line (17), Year 2023 (Bates page 150) + \$0.00030 for renewables charge

\$0.02674 \$0.05649 (\$0.00082)

\$0.02674 \$0.05649 (\$0.00082)

(27) Catsomer Charge
(28) LHEAP Enhancement Charge
(29) RE Growth Program
(30) Transmission Charge
(31) Distribution Energy Charge
(32) Transmior Charge
(33) Energy Efficiency Program
(34) Renowable Energy Distribution Charge
(35) Supply Services Energy Charge

Line Item on Bill

\$3.35

\$3.35

The Narragansett Electric Company
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Attachment 1-37 (6)
High Scenario Year 3
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The Narragansett Electric Company Calculation of Monthly Typical Bill Total Bill Impact of Proposed Rates Applicable to G-02 Rate Customers

			Propc	Proposed Rates effective	tive January 1, 2022	22	Propos	Proposed Rates effective January 1, 2023	3 January 1, 20	23		\$ Increase (Decrease)	ecrease)		Щ	increase (Decrease) % of Total Bil) % of Total Bill	
	Monthly Power		Delivery	Supply			Delivery	Supply			Delivery	Supply			Delivery	Supply		
ΚW	Hours Use	kWh	Services	Services	GET	Total	Services	Services	GET	Total	Services	Services	GET	Total	Services	Services	ŒŢ	Total
	(a)		(p)	(c)	(p)	(e)	(p)	(c)	(p)	(e)	(J)	(g)	(h)	(i)	(i)	(k)	(I)	(m)
20	200	4,000	\$550.43	\$373.36	\$38.49	\$962.28	\$564.79	\$373.36	\$39.09	\$977.24	\$14.36	80.00	80.60	\$14.96	1.5%	0.0%	0.1%	1.6%
50	200	10,000	\$1,226.75	\$933.40	\$90.01	\$2,250.16	\$1,262.65	\$933.40	\$91.50	\$2,287.55	\$35.90	80.00	\$1.49	\$37.39	1.6%	0.0%	0.1%	1.7%
100	200	20,000	\$2,353.95	\$1,866.80	\$175.86	\$4,396.61	\$2,425.75	\$1,866.80	\$178.86	\$4,471.41	\$71.80	80.00	\$3.00	\$74.80	1.6%	0.0%	0.1%	1.7%
150	200	30,000	\$3,481.15	\$2,800.20	\$261.72	\$6,543.07	\$3,588.85	\$2,800.20	\$266.21	\$6,655.26	\$107.70	\$0.00	\$4.49	\$112.19	1.6%	0.0%	0.1%	1.7%
20	300	000'9	\$653.47	\$560.04	\$50.56	\$1,264.07	\$675.01	\$560.04	\$51.46	\$1,286.51	\$21.54	\$0.00	80.90	\$22.44	1.7%	0.0%	0.1%	1.8%
50	300	15,000	\$1,484.35	\$1,400.10	\$120.19	\$3,004.64	\$1,538.20	\$1,400.10	\$122.43	\$3,060.73	\$53.85	\$0.00	\$2.24	\$56.09	1.8%	0.0%	0.1%	1.9%
100	300	30,000	\$2,869.15	\$2,800.20	\$236.22	\$5,905.57	\$2,976.85	\$2,800.20	\$240.71	\$6,017.76	\$107.70	80.00	\$4.49	\$112.19	1.8%	0.0%	0.1%	1.9%
150	300	45,000	\$4,253.95	\$4,200.30	\$352.26	\$8,806.51	\$4,415.50	\$4,200.30	\$358.99	\$8,974.79	\$161.55	\$0.00	\$6.73	\$168.28	1.8%	0.0%	0.1%	1.9%
20	400	8,000	\$756.51	\$746.72	\$62.63	\$1,565.86	\$785.23	\$746.72	\$63.83	\$1,595.78	\$28.72	\$0.00	\$1.20	\$29.92	1.8%	0.0%	0.1%	1.9%
50	400	20,000	\$1,741.95	\$1,866.80	\$150.36	\$3,759.11	\$1,813.75	\$1,866.80	\$153.36	\$3,833.91	\$71.80	80.00	\$3.00	\$74.80	1.9%	0.0%	0.1%	2.0%
100	400	40,000	\$3,384.35	\$3,733.60	\$296.58	\$7,414.53	\$3,527.95	\$3,733.60	\$302.56	\$7,564.11	\$143.60	\$0.00	85.98	\$149.58	1.9%	0.0%	0.1%	2.0%
150	400	60,000	\$5,026.75	\$5,600.40	\$442.80	\$11,069.95	\$5,242.15	\$5,600.40	\$451.77	\$11,294.32	\$215.40	\$0.00	\$8.97	\$224.37	1.9%	0.0%	0.1%	2.0%
20	200	10,000	\$859.55	\$933.40	\$74.71	\$1,867.66	\$895.45	\$933.40	\$76.20	\$1,905.05	\$35.90	80.00	\$1.49	\$37.39	1.9%	0.0%	0.1%	2.0%
20	200	25,000	\$1,999.55	\$2,333.50	\$180.54	\$4,513.59	\$2,089.30	\$2,333.50	\$184.28	\$4,607.08	\$89.75	\$0.00	\$3.74	\$93.49	2.0%	0.0%	0.1%	2.1%
100	200	50,000	\$3,899.55	\$4,667.00	\$356.94	\$8,923.49	\$4,079.05	\$4,667.00	\$364.42	\$9,110.47	\$179.50	\$0.00	\$7.48	\$186.98	2.0%	0.0%	0.1%	2.1%
150	200	75,000	\$5,799.55	\$7,000.50	\$533.34	\$13,333.39	\$6,068.80	\$7,000.50	\$544.55	\$13,613.85	\$269.25	\$0.00	\$11.21	\$280.46	2.0%	0.0%	0.1%	2.1%
20	009	12,000	\$962.59	\$1,120.08	\$86.78	\$2,169.45	\$1,005.67	\$1,120.08	\$88.57	\$2,214.32	\$43.08	\$0.00	\$1.79	\$44.87	2.0%	0.0%	0.1%	2.1%
20	009	30,000	\$2,257.15	\$2,800.20	\$210.72	\$5,268.07	\$2,364.85	\$2,800.20	\$215.21	\$5,380.26	\$107.70	\$0.00	\$4.49	\$112.19	2.0%	0.0%	0.1%	2.1%
100	009	000'09	\$4,414.75	\$5,600.40	\$417.30	\$10,432.45	\$4,630.15	\$5,600.40	\$426.27	\$10,656.82	\$215.40	\$0.00	\$8.97	\$224.37	2.1%	0.0%	0.1%	2.2%
150	009	000'06	\$6,572.35	\$8,400.60	\$623.87	\$15,596.82	\$6,895.45	\$8,400.60	\$637.34	\$15,933.39	\$323.10	80.00	\$13.47	\$336.57	2.1%	0.0%	0.1%	2.2%
											i							

	110 Asset Nates effective January 1, 2022	Proposed Kates effective January 1, 2023	THIS WOULD BEIN
	(0)	(d)	
(1) Distribution Customer Charge	\$145.00	\$145.00	Customer Charge
(2) LIHEAP Enhancement Charge	\$0.80	80.80	LIHEAP Enhancement Charge
Renewable Energy Growth Program Charge	\$32.45	\$32.45	RE Growth Program
Base Distribution Demand Charge (per kW > 10kW)	86.90	06'9\$	Distribution Domand Chance
CapEx Factor Demand Charge (per kW > 10kW)	\$0.97	20.97	Distribution Demain Chage
Distribution Charge (per kWh)	\$0.00476	\$0.00476	
Operating & Maintenance Expense Charge	80.00169	\$0.00169	
Operating & Maintenance Expense Reconciliation Factor	\$0,00002	\$0.00002	
CapEx Reconciliation Factor	\$0.00064	\$0.00064	
Revenue Decoupling Adjustment Factor	\$0.00118	\$0.00118	Distriction Business Changes
Pension Adjustment Factor	(\$0.00073)	(\$0.00073)	Distribution Energy Charge
Storm Fund Replenishment Factor	80.00288	\$0.00288	
Arrearage Management Adjustment Factor	\$0.00015	\$0.00015	
(14) Performance Incentive Factor	\$0.00005	\$0.00005	
15) Low Income Discount Recovery Factor	\$0.00176	\$0.00176	
16) Long-term Contracting for Renewable Energy Charge	\$0.00931	\$0.00931	
Net Metering Charge	\$0.00266	\$0.00266	Kenewable Energy Distribution Charge
Transmission Demand Charge	\$4.37	\$4.37	Transmission Demand Charge
(19) Base Transmission Charge	\$0.01214	\$0.01214	
(20) Transmission Adjustment Factor	(\$0.00399)	(\$0.00399)	Transmission Adjustment
Transmission Uncollectible Factor	\$0.00030	\$0.00030	
Base Transition Charge	(\$0.00074)	(\$0.00074)	Township and Towns
Transition Adjustment	(80:00008)	(\$0.0008)	Hanshon Charge
Energy Efficiency Program Charge	\$0.01952	\$0.02311	Energy Efficiency Programs
Standard Offer Service Base Charge	80.08150	\$0.08150	
SOS Adjustment Factor	80.00094	\$0.00094	Summir Samilana Banana Chanca
SOS Adminstrative Cost Adjustment Factor	80.00224	\$0.00224	Supply Services Elicigy Citage
Renewable Energy Standard Charge	\$0.00866	\$0.00866	
Line Item on Bill			
(29) Customer Charge	\$145.00	\$145.00	
(31) LIHEAP Enhancement Charge	80.80	80.80	
RE Growth Program	\$32.45	\$32.45	
Transmission Adjustment	\$0.00845	\$0.00845	
(33) Distribution Energy Charge	\$0.01240	\$0.01240	
Distribution Demand Charge	57.87	87.87	
Transmission Demand Charge	84.37	\$4.37	
(34) Transition Charge	(\$0.00082)	(\$0.00082)	
(35) Energy Efficiency Programs	\$0.01952	\$0.02311	
(36) Renewable Energy Distribution Charge	\$0.01197	\$0.01197	

Column (o): All lines except Line (24) per Summary of Reatal Delivery Service Rates, R.I.P.U.C. 2095 effective 10/1/2020, and Summary of Rates Standard Offer Service tariff, R.I.P.U.C. No. 2096, effective 10/1/2020; Line (24) Per Docket 5076, Schedule A. Line (17), Year 2023 (Bates page 150) + 50000030 for renewables change
(17), Year 2023 (Bates page 150) + 50000030 for renewables change

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	\$ Increase	Supply	Services	3	\$0.00	-
		Delivery	Services	9	\$143.60	
	23		Total	(e)	\$7,819.95	
any Bill I Iomers	ve January 1, 20:		GET	(P)	\$312.80	
The Narraganset Electric Company Calculation of Monthly Typical Bill Total Bill Impact of Proposed Rates Applicable to G-32 Rate Customers	Proposed Rates effective January 1, 2023	Supply	Services	(3)	\$2,951.60	
The Narragan Calculation of Total Bill! Rates Applicable	Prop	Delivery	Services	(p)	\$4,555.55	
	022		Total	(6)	\$7,670.36	
	tive January 1, 2		GET	(p)	\$306.81	
	Proposed Rates effective January 1, 2022	Supply	Services	(c)	\$2,951.60	
	Pr	livery	vices	(q.	,411.95	

				Proposed Rates effective January 1, 2022	ctive January 1, 2	022	_	Proposed Rates effective January 1, 2023	ve January 1, 20:	23		\$ Increase (Decrease	Secrease)		Increase (D	Increase (Decrease) % of Total Bill	of Total Bi	=
A.4	Monthly Power Hours Use	I-W.h	Delivery	Supply	THU	Total	Delivery	Supply	THU	Total	Services	Supply	THE		Delivery Supply	oply giose GFT	Total	
:	(a)	=	(P)	(c)	9	(e)	(9)	(c)	(p)	(e)		(8)	3	9	9	(E)	(E)	
200	200	40,000	\$4,411.95	\$2,951.60	\$306.81	\$7,670.36	\$4,555.55	\$2,951.60	\$312.80	\$7,819.95	\$143.60	\$0.00	\$5.99	\$149.59	1.9%	0.0% 0.1%	% 2.0	R
750	200	150,000	\$16,214.95	\$11,068.50	\$1,136.81	\$28,420.26	\$16,753.45	\$11,068.50	\$1,159.25	\$28,981.20	\$538.50	\$0.00	\$22.44	\$560.94	1.9%	0.0% 0.1	% 2.0	æ
1,000	200	200,000	\$21,579.95	\$14,758.00	\$1,514.08	\$37,852.03	\$22,297.95	\$14,758.00	\$1,544.00	\$38,599.95	\$718.00	\$0.00		\$747.92	1.9%	0.0% 0.1	% 2.0	S.
1,500	200	300,000	\$32,309.95	\$22,137.00	\$2,268.62	\$56,715.57	\$33,386.95	\$22,137.00	\$2,313.50	\$57,837.45	\$1,077.00	\$0.00		\$1,121.88	%6.1	0.0%	% 2.0	æ
2,500	200	200,000	\$53,769.95	\$36,895.00	\$3,777.71	\$94,442.66	\$55,564.95	\$36,895.00	\$3,852.50	\$96,312.45	\$1,795.00	\$0.00		1,869.79	%6.	0.0%	% 2.0	g.
2,000	200	000,000	\$107,419.95	\$73,790.00	\$7,550.42	\$188,760.37	\$111,009.95	\$73,790.00	\$7,700.00	\$192,499.95	\$3,590.00	\$0.00	\$149.58 \$	\$3,739.58	8 3	0.0%	% 20	8 3
000 01	200	000,000,0	\$101,009.93	\$110,685.00	\$11,523.12	\$253,075.07	\$100,434.93	\$110,083.00	\$11,347.30	\$266,067.43	00,080,00	\$0.00		50,600,00 FT 4T0 LT	1.0%	0.0%	30 7 00%	R a
20,000	200	4 000 000	\$429 319 95	\$295 160 00	\$30.18667	\$754,666,67	\$443,679,95	\$295 160 00	\$30,785,00	\$769 67495	514 360 00	2000	~	\$14.958.33	36	0.0%	200	2 %
200	300	000'09	\$5,486.95	\$4,427.40	\$413.10	\$10,327.45	\$5,702.35	\$4,427.40	\$422.07	\$10,551.82	\$215.40	\$0.00		\$224.37	2.1%	0.0% 0.1	% 2.2	8
750	300	225,000	\$20,246.20	\$16,602.75	\$1,535.37	\$38,384.32	\$21,053.95	\$16,602.75	\$1,569.03	\$39,225.73	\$807.75	\$0.00	\$33.66	\$841.41	2.1%	0.0%	% 2.2	ig.
1,000	300	300,000	\$26,954.95	\$22,137.00	\$2,045.50	\$51,137.45	\$28,031.95	\$22,137.00	\$2,090.37	\$52,259.32	\$1,077.00	\$0.00	\$44.87	\$1,121.87	2.1%	0.0%	% 2.2	e
1,500	300	450,000		\$33,205.50	\$3,065.75	\$76,643.70	\$41,987.95	\$33,205.50	\$3,133.06	\$78,326.51	\$1,615.50	\$0.00		\$1,682.81	2.1%	0.0%	.% 2.2	ig.
2,500	300	750,000		\$55,342.50	\$5,106.25	\$127,656.20	\$69,899.95	\$55,342.50	\$5,218,44	\$130,460.89	\$2,692.50	\$0.00		\$2,804.69	2.1%	0.0%	% 2.2	e
2,000	300	1,500,000	\$134,294.95	\$110,685.00	\$10,207.50	\$255,187.45	\$139,679.95	\$110,685.00	\$10,431.87	\$260,796.82	\$5,385.00	\$0.00		\$5,609.37	2.1%	0.0%	% 2.2	r
7,500	300	2,250,000	\$201,382.45	\$166,027.50	\$15,308.75	\$382,718.70	\$209,459.95	\$166,027.50	\$15,645.31	\$391,132.76	\$8,077.50	\$0.00		\$8,414.06	2.1%	0.1%	% 2.2	R
10,000	300	3,000,000	\$268,469.95	\$221,370.00	\$20,410.00	\$510,249.95	\$279,239.95	\$221,370.00		\$521,468.70	00.077,018	\$0.00	\$448.75 \$1	\$11,218.75	2.1%	0.1%	% 2.2	e
20,000	300	6,000,000	\$536,819.95	\$442,740.00	\$40,815.00	\$1,020,374.95	\$558,359.95	\$442,740.00		\$1,042,812.45	521,540.00	\$0.00	\$897.50 \$22,437.50	2,437.50	2.1%	0.0% 0.1	% 2.2	S.
200	400	80,000	\$6,561.95	\$5,903.20	\$519.38	\$12,984.53	\$6,849.15	\$5,903.20	\$531.35	\$13,283.70	\$287.20	\$0.00		\$299.17	2.2%	0.0%	% 2.3	r
750	400	300,000	\$24,277.45	\$22,137.00	\$1,933.94	\$48,348.39	\$25,354.45	\$22,137.00	\$1,978.81	\$49,470.26	\$1,077.00	\$0.00		\$1,121.87	2.2%	0.0% 0.1	% 2.3	r
1,000	400	400,000	\$32,329.95	\$29,516.00	\$2,576.91	\$64,422.86	\$33,765.95	\$29,516.00	\$2,636.75	\$65,918.70	\$1,436.00	\$0.00	\$59.84	\$1,495.84	2.2%	0.0% 0.1	% 2.3	e
1,500	400	000'009	\$48,434.95	\$44,274.00	\$3,862.87	\$96,571.82	\$50,588.95	\$44,274.00	\$3,952.62	\$98,815.57	\$2,154.00	\$0.00	\$89.75	\$2,243.75	2.2%	0.0% 0.1	% 2.3	r
2,500	400	1,000,000	\$80,644.95	\$73,790.00	\$6,434.79	\$160,869.74	\$84,234.95	\$73,790.00	\$6,584.37	\$164,609.32	\$3,590.00	\$0.00	\$149.58 \$	\$3,739.58	2.2%	0.0% 0.1	% 2.3	r
5,000	400	2,000,000	\$161,169.95	\$147,580.00	\$12,864.58	\$321,614.53	\$168,349.95	\$147,580.00	\$13,163.75	\$329,093.70	\$7,180.00	\$0.00	\$299.17 \$7,479.17	7,479.17	2.2%	0.0%	% 2.3	r
7,500	400	3,000,000	\$241,694.95	\$221,370.00	\$19,294.37	\$482,359.32		\$221,370.00	\$19,743.12	\$493,578.07	810,770.00	\$0.00	\$448.75 \$11,218.75	1,218.75	2.2%	0.0% 0.1%	% 2.3	r
10,000	400	4,000,000	\$322,219.95	\$295,160.00	\$25,724.17	\$643,104.12	٠,	\$295,160.00		\$658,062.45	814,360.00		\$598.33 \$14,958.33	4,958.33	2.2%	0.0% 0.1%	% 2.3	r
20,000	400	8,000,000	\$644,319.95	\$590,320.00	\$51,443.34	\$1,286,083.29	4	\$590,320.00		\$1,315,999.95	528,720.00	\$ 00.08	\$	9,916,66	2.2%	0.0%	% 2.3	g.
200	200	100,000	\$7,636.95	\$7,379.00	\$625.66	\$15,641.61	\$7,995.95	\$7,379.00	\$640.62	\$16,015.57	\$359.00	\$0.00		\$373.96	2.3%	0.0% 0.1	% 2.4	r
750	200	375,000	\$28,308.70	\$27,671.25	\$2,332.50	\$58,312.45	\$29,654.95	\$27,671.25	\$2,388.59	\$59,714.79	\$1,346.25	\$0.00		\$1,402.34	2.3%	0.0%	% 2.4	r
1,000	200	200,000	\$37,704.95	\$36,895.00	\$3,108.33	\$77,708.28	\$39,499.95	\$36,895.00	\$3,183.12	\$79,578.07	\$1,795.00	\$0.00		\$1,869.79	2.3%	0.0% 0.1	% 2.4	r
1,500	200	750,000	\$56,497.45	\$55,342.50	\$4,660.00	\$116,499.95	\$59,189.95	\$55,342.50	\$4,772.19	\$119,304.64	\$2,692.50	\$0.00		\$2,804.69	2.3%	0.0% 0.1	% 2.4	R
2,500	200	1,250,000	\$94,082.45	\$92,237.50	\$7,763.33	\$194,083.28	\$98,569.95	\$92,237.50	\$7,950.31	\$198,757.76	\$4,487.50	\$0.00		\$4,674.48	2.3%	0.0%	% 2.4	r
2,000	200	2,500,000	\$188,044.95	\$184,475.00	\$15,521.67	\$388,041.62	\$197,019.95	\$184,475.00	\$15,895.62	\$397,390.57	\$8,975.00	\$0.00	\$373.95 \$	\$9,348.95	2.3%	0.0% 0.1	% 2.4	r
7,500	200	3,750,000	\$282,007.45	\$276,712.50	\$23,280,00	\$581,999.95	\$295,469.95	\$276,712.50	\$23,840.94	\$596,023.39	813,462.50	\$0.00	\$560.94 \$14,023.44	4,023,44	2.3%	0.0%	% 2.4	æ
10,000	200	5,000,000	\$375,969.95	\$368,950.00	\$31,038.33	\$775,958.28	\$393,919.95	\$368,950.00	\$31,786.25	\$794,656.20	17,950.00		\$747.92 \$18,697.92	8,697.92	2.3%	0.0%	% 2.4	e
20,000	200	10,000,000	\$751,819.95	\$737,900.00	\$62,071.67	\$1,551,791.62	\$787,719.95	\$737,900.00	\$63,567.50	\$1,589,187.45	835,900.00	\$0.00		\$37,395.83	2.3%	0.0%	% 24	e.
200	009	120,000	\$8,711.95	\$8,854.80	\$731.95	\$18,298.70	\$9,142.75	\$8,854.80	\$749.90	\$18,747,45	\$430.80	\$0.00		\$448.75	2.4%	0.0%	% 2.5	e
750	009	450,000	\$32,339.95	\$33,205.50	\$2,731.06	\$68,276.51	\$33,955.45	\$33,205.50	\$2,798.37	\$69,959.32	\$1,615.50	\$0.00		\$1,682.81	2.4%	0.0%	% 2.5	r
1,000	009	000,009	\$43,079.95	\$44,274.00	\$3,639.75	\$90,993.70	\$45,233.95	\$44,274.00	\$3,729.50	\$93,237.45	\$2,154.00	\$0.00		\$2,243.75	2.4%	0.0% 0.1	% 2.5	e
1,500	009	000'006		\$66,411.00	\$5,457.12	\$136,428.07	\$67,790.95	\$66,411.00	\$5,591.75	\$139,793.70	\$3,231.00	\$0.00	\$134.63 \$	\$3,365.63	2.4%	0.0%	% 2.5	R
2,500	009	1,500,000	Ψ,	\$110,685.00	\$9,091.87	\$227,296.82	\$112,904.95	\$110,685.00	\$9,316.25	\$232,906.20	\$5,385.00	\$0.00	\$224.38	\$5,609.38	2.4%	0.0%	% 2.5	e
2,000	009	3,000,000	\$214,919.95	\$221,370.00	\$18,178.75	\$454,468.70	\$225,689.95	\$221,370.00	\$18,627.50	\$465,687.45	00.077,018	\$0.00	\$448.75 \$11,218.75	1,218.75	2.4%	0.0%	% 2.5	e
7,500	009	4,500,000	\$322,319.95	\$332,055.00	\$27,265.63	\$681,640.58	\$338,474.95	\$332,055.00	\$27,938.75	\$698,468.70	16,155.00	20.00		6,828.12	2.4%	.0% 0.1	% 2.5	æ
10,000	009	0000'000'9	\$429,719.95	\$442,740.00	\$36,352.50	5908,812.45	\$451,259.95	\$442,740.00	\$37,250.00	\$931,249.95	521,540.00	\$0.00	5897.50 52	\$22,437.50	24%	0.0%	8 25	e i
20,000	000	12,000,000	\$639,319,93	3883,480.00	3/2/0000	31,517,499,95	3502,357,93	3883,480,00	_	51,862,374.93	94.5,080.00	30.00		4,875.00	2.4%	7.0%	C7	ρ
				Prop	osed Rates effecti	Proposed Rates effective January 1, 2022		Propose	Proposed Rates effective January 1, 2023	Jamary 1, 2023	2	Line Item on Bill	=					
				1		(0)				(d)	1		:1					

Charge	
Line Monton Bill Chestoner Charge LHEAP Maxes essent Charge REGoven th Program Distribution Demand Charge Distribution Demand Charge Renew able Energy Charge Transmission Demand Charge Transmission Adjustment Transmission Adjustment Transmission Adjustment Transmission Charge Energy Elificiency Programs Supply Services Energy Charge	
Proposed Rates of Control 20173	\$2001.5 \$2001.28 \$0002.8 \$0.00
Proposed Rates (They'rea Immary 1, 2022) St. 1000.00 8500028 \$11.008 \$100028 \$100008 \$1.008 \$1.008 \$1.008 \$1.008 \$1.008	
(1) Distribution Casconer Charge (3) Removable littings of the Management Charge (3) Removable littings (Joveth Program Charge (3) Removable littings (Joveth Program Charge (3) Removable littings (Joveth Program Charge (3) Removable littings (Joveth Program Charge (3) Removable littings (Joveth W. 200My) (4) Capitri Ref. Plannial Charge (Joveth W. 200My) (5) Capitri Ref. Plannial Charge (Joveth W. 200My) (6) Capitri Ref. Plannial Charge (Joveth W. 200My) (7) Operating & Maintenane Deporte Charge (8) Operating & Maintenane Deporte Charge (10) Removable Harmen Exact (11) Removable Management Adoption Teactor (11) Removable Management Adoption Teactor (11) Performance Deservity Exact (12) Storm Frant Repleted Removable Energy Charge (13) Transmission Lemma Charge (14) Performance Charge (13) Transmission Lemma Charge (14) Transmission Lemma Charge (15) Transmission Lemma Charge (16) Transmission Lemma Charge (17) Stor Management Perform Charge (27) Stor Majannian Perform Charge (28) Removable Energy Standard Charge (29) Removable Energy Standard Charge (20) Cantoner Charge	(31) RE Gowoth Programs (Date (21) RE Gowoth Programs (13) RE Gowoth Programs (23) Databation (14) Databation Databation Databation Databation Databation Databation Databation Databation Databation Databation Databation Databation Databation (15) Transistion Databation (15) Transistion Databation Databation (15) Databation (15) Databation (15) Databation (15) Supply Services Energy Charge (17) Supply Services Energy Charge (17) Supply Services Energy Charge

National Grid - RI Gas Energy Efficiency Program Plan Bill Impact Analysis with Various Levels of Consumption Base Case - Year 1

Residential Heating:

			GET	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
	GET	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	LIHEAP	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
	LIHEAP	00.08 00.08 00.08 00.08 00.08 00.08 00.08 00.08	EE	80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00
e to:	EE	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	DAC ISR	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
Difference due to:	ISR	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	DILLETE DAC Base DAC	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
DAC	Base DAC	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	Total Bill Discount	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
	GCR	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	GCR	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
	% Chg	%0.0 %0.0 %0.0 %0.0 %0.0 %0.0 %0.0 %0.0	% Chg	%000 %000 %000 %000 %000 %000 %000 %00
	Difference	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	Difference	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
Current	2020 EE Rates	\$930.14 \$1,011.94 \$1,092.40 \$1,172.87 \$1,253.20 \$1,315.02 \$1,416.83 \$1,477.64 \$1,577.64 \$1,558.09 \$1,7739.92	Current 2020 EE Rates	\$691.15 \$751.81 \$811.46 \$871.12 \$930.67 \$991.33 \$1,051.98 \$1,111.58 \$1,111.22 \$1,291.53
Proposed	S	\$930.14 \$1,011.94 \$1,092.40 \$1,172.87 \$1,253.20 \$1,335.02 \$1,416.83 \$1,577.64 \$1,577.64 \$1,588.09 \$1,739.92	Proposed 2021 EE Rates 2	\$691.15 \$751.81 \$811.46 \$871.12 \$930.67 \$991.33 \$1,051.98 \$1,111.58 \$1,171.22 \$1,230.84 \$1,291.53
Annual		548 608 667 726 785 845 905 905 1,023 1,023 1,142	Annual Consumption (Therms) 2	548 608 667 726 785 845 905 905 1,023 1,142

National Grid - RI Gas
Energy Efficiency Program Plan
Bill Impact Analysis with Various Levels of Consumption
Base Case - Year 1

Residential Non-Heating:

(31) (32) (32) (33) (34) (35) (35) (36) (36) (37) (38) (39) (40) (41) (42) (42) (42) (43) (44)

															Ę	IEI IEI	\$0.00	\$0.00	80.00	80.00	\$0.00	80.00	\$0.00	80.00	80.00	80.00	\$0.00	
	$\overline{ ext{GET}}$	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			4 7 11 11	LIHEAP	\$0.00	\$0.00	80.00	\$0.00	00.08	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
	LIHEAP	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	80.00	\$0.00	\$0.00			Ē	ц ц	\$0.00	\$0.00	80.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
te to:	EE	\$0.00	\$0.00	00.08	00.08	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		Difference due to:	ľ	X	\$0.00	\$0.00	\$0.00	\$0.00	00.08	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Difference due to:	ISR	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		Differe	DAC	Base DAC	\$0.00	80.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
DAC	Base DAC	\$0.00	\$0.00	\$0.00	\$0.00	00.08	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		T	ı	Discount	\$0.00	\$0.00	80.00	\$0.00	00.08	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
	GCR	80.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			ç	2 <u>C</u>	\$0.00	80.00	80.00	\$0.00	\$0.00	80.00	\$0.00	\$0.00	\$0.00	80.00	\$0.00	
	% Chg	%0.0	%0.0	%0.0	%0.0	%0.0	%0.0	%0.0	%0.0	%0.0	%0.0	%0.0			5	% Chg	%0.0	%0.0	%0.0	%0.0	%0.0	%0.0	%0.0	%0.0	%0.0	%0.0	%0.0	
	Difference	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			5	<u>Difference</u>	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Current	2020 EE Rates	\$391.60	\$411.85	\$432.15	\$456.76	\$475.61	\$501.64	\$527.71	\$546.56	\$571.12	\$591.40	\$613.14		,	Current	<u> 2020 EE Kates</u>	\$292.01	\$307.03	\$322.09	\$340.33	\$354.34	\$373.64	\$392.96	\$406.96	\$425.20	\$440.23	\$456.37	
Proposed	S	\$391.60	\$411.85	\$432.15	\$456.76	\$475.61	\$501.64	\$527.71	\$546.56	\$571.12	\$591.40	\$613.14	come:	D		<u>2021 EE Kates 20</u>	\$292.01	\$307.03	\$322.09	\$340.33	\$354.34	\$373.64	\$392.96	\$406.96	\$425.20	\$440.23	\$456.37	
Annual		144	158	172	189	202	220	238	251	268	282	297	Residential Non-Heating Low Income:			Consumption (Therms) 202	144	158	172	189	202	220	238	251	268	282	297	

National Grid - RI Gas
Energy Efficiency Program Plan
Bill Impact Analysis with Various Levels of Consumption
Base Case - Year 1

	GET	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			GET	80.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	<u>IHEAP</u> <u>G</u>	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			<u>IHEAP</u> G	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	80.00	\$0.00
::	EE LIF	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			EE LII	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Difference due to:	ISR	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		Difference due to:	ISR	80.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	80.00
D DAC	Base DAC	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	80.00		DAC	Base DAC	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	GCR Bas	80.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			GCR Bas	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	80.00	\$0.00	\$0.00	\$0.00	80.00	\$0.00
	OI														OI											
	% Chg	%0.0	%0:0	%0.0	%0.0	0.0%	0.0%	%0.0	0.0%	0.0%	0.0%	%0.0			% Chg	0.0%	%0.0	%0.0	%0.0	%0.0	%0.0	%0.0	%0.0	%0.0	%0.0	%0.0
	Difference	\$0.00	\$0.00	80.00	80.00	80.00	\$0.00	80.00	80.00	80.00	\$0.00	\$0.00			Difference	\$0.00	\$0.00	80.00	80.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Current	2020 EE Rates	\$1,363.85	\$1,475.78	\$1,590.33	\$1,702.35	\$1,813.18	\$1,926.42	\$2,039.65	\$2,151.68	\$2,262.48	\$2,376.99	\$2,490.23		Current	2020 EE Rates	\$8,506.77	\$9,307.87	\$10,106.29	\$10,909.32	\$11,711.37	\$12,512.44	\$13,313.50	\$14,116.52	\$14,918.56	\$15,716.98	\$16,519.01
Proposed	S	\$1,363.85	\$1,475.78	\$1,590.33	\$1,702.35	\$1,813.18	\$1,926.42	\$2,039.65	\$2,151.68	\$2,262.48	\$2,376.99	\$2,490.23		Pronosed	S	\$8,506.77	\$9,307.87	\$10,106.29	\$10,909.32	\$11,711.37	\$12,512.44	\$13,313.50	\$14,116.52	\$14,918.56	\$15,716.98	\$16,519.01
Annual		830	919	1,010	1,099	1,187	1,277	1,367	1,456	1,544	1,635	1,725		Annual		6,907	7,650	8,391	9,136	6,880	10,623	11,366	12,111	12,855	13,596	14,340
	Consumptic												C & I Medium:		Consumptic											
			_	_	_	_	_	_	_	_			C				_	_	_	_			_	_		

(61) (62) (63) (64) (65) (65) (67) (68) (69) (69) (70) (71) (72) (73) (73)

National Grid - RI Gas Energy Efficiency Program Plan Bill Impact Analysis with Various Levels of Consumption Base Case - Year 1

C & I LLF Large:

<u>GET</u>	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
LIHEAP	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	S0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
ue to:	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	SO 00 SO 00
Difference due to: ISR E	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	Difference due to: SN 00 SN 00
DAC Base DAC	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	DAC Base DAC 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00
GCR	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	OC S S S S S S S S S S S S S S S S S S S
% Chg	0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00%	% Chg 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%
Difference	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	So 00 So 00
Current 2020 EE Rates	\$43,834.92 \$48,286.33 \$52,741.30 \$57,194.89 \$61,645.80 \$66,099.35 \$70,552.86 \$75,004.75 \$79,457.35 \$83,911.82 \$88,363.73	Current 2020 EE Rates \$40,397.22 \$44,477.32 \$48,561.52 \$55,727.39 \$60,809.11 \$64,890.83 \$68,975.78 \$77,140.84 \$81,224.31
Proposed 2021 EE Rates	\$43,834.92 \$48,286.83 \$52,741.30 \$57,194.89 \$61,645.80 \$66,099.35 \$70,552.86 \$75,004.75 \$79,457.35 \$83,911.82	Proposed 2021 EE Rates \$40,397.22 \$44,477.32 \$44,477.32 \$52,642.41 \$56,727.39 \$60,809.11 \$64,890.83 \$64,890.83 \$68,975.78 \$73,056.69 \$77,140.84
Annual Consumption (Therms) 20	37,587 41,634 45,683 49,731 53,777 57,825 61,873 65,920 69,967 74,016 78,063	Annual Consumption (Therms) 2 41,956 46,471 50,991 55,507 60,028 64,545 69,062 73,583 78,099 82,619 87,137
(91) (92) (93)	(34) (95) (96) (97) (98) (98) (99) (100) (101) (103) (104) (105)	(100) (110) (10) (

National Grid - RI Gas
Energy Efficiency Program Plan
Bill Impact Analysis with Various Levels of Consumption
Base Case - Year 1

C & I LLF Extra-Large:

	00	00	00	00	00	00	00	00	00	00	00				00	00	00	00	00	00	0	00 :	8 8	90 5	00
GET	\$0.0	\$0.00	80.	80.	80.	80.	80.	80.	80.	80.	80.0			GET	80.0	\$0°.	80.	80.	80.	\$0.00	.0 <u>°</u>	.0S	\$0°.	.0 20:	\$0°.
LIHEAP	80.00	80.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			LIHEAP	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	80.00	80.00	\$0.00	\$0.00	80.00
due to: EE	\$0.00	\$0.00	\$0.00	00.08	00.08	\$0.00	\$0.00	00.08	\$0.00	\$0.00	\$0.00		due to:	EE	\$0.00	\$0.00	\$0.00	80.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	80.00
Difference due to:	80.00	80.00	\$0.00	\$0.00	\$0.00	80.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		Difference due to:	ISR	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	80.00	80.00	\$0.00	20.00	80.00
DAC Base DAC	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		DAC	Base DAC	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	80.00	80.00
GCR	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			GCR	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	80.00	\$0.00	\$0.00	20.00	80.00
% Chg	0.0%	%0.0	%0.0	%0.0	%0.0	%0.0	%0.0	%0.0	%0.0	%0.0	%0.0			% Chg	%0.0	%0.0	%0.0	%0.0	%0.0	0.0%	%0.0	%0.0	%0.0 .03%	0.0%	0.0%
Difference	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	80.00	\$0.00	\$0.00	\$0.00			Difference	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	80.00	\$0.00	\$0.00	\$0.00	\$0.00
Current 2020 EE Rates	\$203,062.47	\$224,264.75	\$245,462.70	\$266,664.94	\$287,865.04	\$309,066.64	\$330,268.21	\$351,469.01	\$372,670.55	\$393,868.47	\$415,070.76		Current	2020 EE Rates	\$365,615.01	\$404,322.55	\$443,029.28	\$481,738.03	\$520,441.45	\$559,149.58	\$597,857.75	\$636,561.09	\$675,269.90	\$713,976.59	\$752,684.72
Proposed 2021 EE Rates	\$203,062.47	\$224,264.75	\$245,462.70	\$266,664.94	\$287,865.04	\$309,066.64	\$330,268.21	\$351,469.01	\$372,670.55	\$393,868.47	\$415,070.76		Proposed	2021 ÉE Rates	\$365,615.01	\$404,322.55	\$443,029.28	\$481,738.03	\$520,441.45	\$559,149.58	\$597,857.75	\$636,561.09	\$675,269.90	\$713,976.59	\$752,684.72
Annual Consumption (Therms)	233,835	259,019	284,197	309,381	334,562	359,745	384,928	410,110	435,293	460,471	485,655	C & I HLF Extra-Large:	Annual	Consumption (Therms)	486,528	538,924	591,320	643,718	696,109	748,506	800,903	853,294	905,692	958,088	1,010,485
(121) (122) (123)	(124)	(126)	(127)	(128)	(129)	(130)	(131)	(132)	(133)	(134)	(135)	—	(136) (137)	(138)	(140)	(141)	(142)	(143)	(144)	(145)	(146)	(147)	(148)	(149)	(150)

National Grid - RI Gas Energy Efficiency Program Plan Bill Impact Analysis with Various Levels of Consumption Base Case - Year 2

Residential Heating:

															GET	\$0.28	\$0.31	\$0.34	\$0.38	\$0.41	\$0.44	\$0.47	\$0.50	\$0.53	\$0.56	\$0.59
	GET	\$0.38	\$0.42	\$0.46	\$0.50	\$0.54	\$0.58	\$0.62	\$0.66	\$0.71	\$0.75	80.79			LIHEAP	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	LIHEAP	\$0.00	\$0.00	80.00	80.00	\$0.00	80.00	\$0.00	\$0.00	80.00	\$0.00	\$0.00			EE	\$12.21	\$13.57	\$14.86	\$16.17	\$17.50	\$18.84	\$20.20	\$21.48	\$22.81	\$24.12	\$25.47
e to:	EE	\$12.21	\$13.57	\$14.86	\$16.17	\$17.50	\$18.84	\$20.20	\$21.48	\$22.81	\$24.12	\$25.47		Difference due to: DAC	ISR	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Difference due to:	ISR	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		Differe DAC	Base DAC	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	80.00
DAC	Base DAC	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		Total Bill	Discount	(\$3.05)	(\$3.39)	(\$3.72)	(\$4.04)	(\$4.37)	(\$4.71)	(\$5.05)	(\$5.37)	(\$5.70)	(\$6.03)	(\$6.37)
	GCR	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	80.00	\$0.00	\$0.00			GCR	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	% Chg	1.4%	1.4%	1.4%	1.4%	1.4%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%			% Chg	1.4%	1.4%	1.4%	1.4%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
	<u>Difference</u>	\$12.59	\$13.99	\$15.32	\$16.67	\$18.04	\$19.42	\$20.82	\$22.14	\$23.52	\$24.87	\$26.26			Difference	89.44	\$10.49	\$11.49	\$12.50	\$13.53	\$14.57	\$15.62	\$16.61	\$17.64	\$18.65	\$19.69
Proposed	<u> 2021 ÈE Rates</u>	\$930.14	\$1,011.94	\$1,092.40	\$1,172.87	\$1,253.20	\$1,335.02	\$1,416.83	\$1,497.23	\$1,577.64	\$1,658.09	\$1,739.92		Proposed	2021 EE Rates	\$691.15	\$751.81	\$811.46	\$871.12	\$930.67	\$991.33	\$1,051.98	\$1,111.58	\$1,171.22	\$1,230.84	\$1,291.53
Proposed	2022 ÉE Rates 2	\$942.72	\$1,025.93	\$1,107.72	\$1,189.54	\$1,271.24	\$1,354.45	\$1,437.65	\$1,519.37	\$1,601.16	\$1,682.95	\$1,766.18	ne:	Proposed	2022 <u>EE Rates</u> 2	\$700.59	\$762.30	\$822.95	\$883.62	\$944.21	\$1,005.90	\$1,067.60	\$1,128.19	\$1,188.85	\$1,249.49	\$1,311.22
Annual	Consumption (Therms) 2	548	809	299	726	785	845	905	964	1,023	1,082	1,142	Residential Heating Low Income:	Annual	Consumption (Therms) 2	548	809	299	726	785	845	905	964	1,023	1,082	1,142

National Grid - RI Gas
Energy Efficiency Program Plan
Bill Impact Analysis with Various Levels of Consumption
Base Case - Year 2

Residential Non-Heating:

(31) (32) (32) (33) (34) (35) (36) (37) (38) (39) (40) (41) (42) (42) (43)

															GET	\$0.07	\$0.08	\$0.09	\$0.10	\$0.10	\$0.11	\$0.12	\$0.13	\$0.14	\$0.15	\$0.15
	GET	\$0.10	\$0.11	\$0.12	\$0.13	\$0.14	\$0.15	\$0.16	\$0.17	\$0.18	\$0.19	\$0.21			LIHEAP	80.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	LIHEAP	\$0.00	80.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			EE	\$3.19	\$3.50	\$3.83	\$4.20	\$4.50	\$4.90	\$5.30	\$5.60	\$5.98	\$6.28	\$6.63
e to:	EE	\$3.19	\$3.50	\$3.83	\$4.20	\$4.50	\$4.90	\$5.30	\$5.60	\$5.98	\$6.28	\$6.63		Difference due to: DAC	ISR	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Difference due to:	ISR	\$0.00	\$0.00	80.00	80.00	\$0.00	\$0.00	\$0.00	80.00	\$0.00	\$0.00	\$0.00		Differe DAC	Base DAC	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
DAC	Base DAC	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		Fotal Bill		(\$0.80)	(\$0.88)	(\$0.96)	(\$1.05)	(\$1.13)	(\$1.22)	(\$1.32)	(\$1.40)	(\$1.50)	(\$1.57)	(\$1.66)
	GCR	\$0.00	\$0.00	80.00	80.00	\$0.00	\$0.00	\$0.00	80.00	\$0.00	\$0.00	\$0.00		·	GCR	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	% Chg	0.8%	%6.0	%6.0	%6.0	1.0%	1.0%	1.0%	1.1%	1.1%	1.1%	1.1%			% Chg	0.8%	%6.0	%6.0	1.0%	1.0%	1.0%	1.0%	1.1%	1.1%	1.1%	1.1%
	Difference	\$3.29	\$3.61	\$3.95	\$4.33	\$4.64	\$5.05	\$5.46	\$5.77	\$6.16	\$6.47	\$6.84			Difference	\$2.47	\$2.71	\$2.96	\$3.25	\$3.48	\$3.79	\$4.10	\$4.33	\$4.62	\$4.86	\$5.13
Proposed	2021 EE Rates	\$391.60	\$411.85	\$432.15	\$456.76	\$475.61	\$501.64	\$527.71	\$546.56	\$571.12	\$591.40	\$613.14		Proposed	2021 ÉE Rates	\$292.01	\$307.03	\$322.09	\$340.33	\$354.34	\$373.64	\$392.96	\$406.96	\$425.20	\$440.23	\$456.37
Proposed	es	\$394.88	\$415.45	\$436.10	\$461.09	\$480.25	\$506.69	\$533.18	\$552.33	\$577.28	\$597.88	\$619.98	Income:	Proposed	S	\$294.48	\$309.74	\$325.05	\$343.58	\$357.82	\$377.43	\$397.06	\$411.29	\$429.82	\$445.09	\$461.49
Annual		144	158	172	189	202	220	238	251	268	282	297	Residential Non-Heating Low Income:	Annual		144	158	172	189	202	220	238	251	268	282	297

(46) (47) (48) (49) (50) (51) (52) (53) (54) (55) (56) (56) (56) (57) (58) (58) (58) (59) (60)

National Grid - RI Gas
Energy Efficiency Program Plan
Bill Impact Analysis with Various Levels of Consumption
Base Case - Year 2

	83 83 83 83		831 832 845 845 872 873
GET	\$0.40 \$0.40 \$0.44 \$0.57 \$0.53 \$0.61 \$0.74 \$0.74 \$0.78 \$0.78	GET	\$3.31 \$4.02 \$4.02 \$4.74 \$5.09 \$5.45 \$6.16 \$6.52 \$6.52
LIHEAP	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	LIHEAP	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
due to:	\$12.82 \$14.23 \$15.65 \$17.05 \$19.77 \$22.55 \$23.94 \$25.37 \$26.76	due to: <u>EE</u>	\$107.06 \$118.57 \$130.08 \$141.61 \$153.13 \$164.65 \$176.15 \$187.72 \$199.26 \$222.28
Difference due to:	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	Difference due to:	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
DAC Base DAC	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	DAC Base DAC	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
GCR	00 00 00 00 00 00 00 00 00 00 00 00 00	GCR	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
% Chg	1.0% 1.0% 1.1% 1.1% 1.1% 1.1%	% Chg	1.3% 1.3% 1.3% 1.3% 1.4% 1.4% 1.4%
Difference	\$13.22 \$14.67 \$16.13 \$17.58 \$20.38 \$21.85 \$23.25 \$24.68 \$26.15	Difference	\$110.37 \$122.24 \$134.10 \$145.99 \$157.87 \$169.74 \$181.60 \$193.53 \$205.42 \$217.28
Proposed 2021 EE Rates	\$1,363.85 \$1,475.78 \$1,590.33 \$1,702.35 \$1,926.42 \$2,039.65 \$2,151.68 \$2,262.48 \$2,376.99 \$2,490.23	Proposed 2021 EE Rates	\$8,506.77 \$9,307.87 \$10,106.29 \$10,909.32 \$11,711.37 \$12,512.44 \$13,313.50 \$14,116.52 \$14,918.56 \$15,716.98
Proposed 2022 EE Rates	\$1,377.07 \$1,490.45 \$1,606.46 \$1,719.92 \$1,832.15 \$1,946.80 \$2,061.50 \$2,174.93 \$2,287.16 \$2,403.15	Proposed 2022 EE Rates	\$8,617.14 \$9,430.11 \$10,240.40 \$11,055.30 \$11,869.23 \$12,682.18 \$13,495.09 \$14,310.04 \$15,123.98 \$15,934.26 \$15,748.17
Annual Consumption (Therms)	830 919 1,010 1,187 1,277 1,367 1,456 1,544 1,635	Medium: Annual Consumption (Therms)	6,907 7,650 8,391 9,136 9,880 10,623 11,366 12,111 12,855 13,596 14,340
Consumptic		C & I Medium: Consumptic	

(61) (62) (63) (64) (65) (65) (66) (67) (68) (69) (69) (70) (71) (71) (72) (73) (73)

National Grid - RI Gas
Energy Efficiency Program Plan
Bill Impact Analysis with Various Levels of Consumption
Base Case - Year 2

⊢I	\$18.02 \$19.96 \$21.90 \$23.84 \$25.78 \$27.72 \$29.66 \$33.54 \$33.54	S20.11 \$22.28 \$24.44 \$26.61 \$28.78 \$30.94 \$33.11 \$35.27 \$37.44 \$39.61
GET	3 3 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	S20. \$22. \$22. \$24. \$28. \$30. \$33. \$33. \$33.
LIHEAP	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	LIHEAP \$0.00 \$
due to: <u>EE</u>	\$582.60 \$645.32 \$708.10 \$770.83 \$833.55 \$896.27 \$959.03 \$1,021.78 \$1,044.49 \$1,147.27	EE \$650.32 \$720.30 \$770.35 \$860.34 \$930.44 \$1,000.45 \$1,140.52 \$1,280.60 \$1,380.64
Difference due to:	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	Difference due to: SO
DAC Base DAC	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	DAC Base DAC \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
GCR	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	S0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
% Chg	1.4% 1.4% 1.4% 1.4% 1.4% 1.4% 1.4% 1.4%	% Chg 1.7% 1.7% 1.7% 1.7% 1.7% 1.7% 1.7% 1.7%
Difference	\$600.62 \$665.28 \$730.00 \$794.67 \$859.33 \$923.99 \$988.69 \$1,053.38 \$1,118.03 \$1,182.75 \$1,247.38	S670.43 \$772.58 \$742.58 \$814.79 \$886.95 \$959.22 \$1,031.39 \$1,103.58 \$1,175.79 \$1,247.95 \$1,320.21 \$1,320.21
Proposed <u>2021 EE Rates</u>	\$43,834,92 \$48,286,83 \$52,741.30 \$57,194.89 \$61,645.80 \$66,099.35 \$70,552.86 \$75,004.75 \$79,457.35 \$83,911.82	Proposed \$40,397.22 \$44,477.32 \$44,477.32 \$48,561.52 \$52,642.41 \$56,727.39 \$60,809.11 \$64,890.83 \$68,975.78 \$73,056.69 \$77,140.84
Proposed 2022 EE Rates	\$44,435.54 \$48,952.11 \$53,471.30 \$57,989.56 \$62,505.13 \$67,023.34 \$71,541.55 \$76,058.13 \$80,575.38	Proposed 2022 EE Rates \$41,067.65 \$45,219.90 \$49,376.31 \$53,529.36 \$57,686.60 \$61,840.50 \$65,994.41 \$70,151.57 \$74,304.64 \$78,461.04
Annual Consumption (Therms)	37,587 41,634 45,683 49,731 53,777 57,825 61,873 65,920 69,967 74,016 78,063	Annual Consumption (Therms) 41,956 46,471 50,991 55,507 60,028 64,545 69,062 73,583 78,099 82,619
(91) (92) (93)	(94) (95) (96) (97) (100) (101) (103) (104) (105) (105)	(106) (103) (103) (113) (114) (115) (117) (118) (118) (119)

National Grid - RI Gas
Energy Efficiency Program Plan
Bill Impact Analysis with Various Levels of Consumption
Base Case - Year 2

C & I LLF Extra-Large:

GET	\$112.10 \$124.17 \$136.24 \$148.31 \$160.38 \$172.46 \$184.53 \$196.60 \$220.74 \$232.81	GET \$233.23 \$258.35 \$283.47 \$308.59 \$333.70 \$358.82 \$383.94 \$409.05 \$449.17
LIHEAP	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	LIHEAP \$0.00 \$
due to: EE	\$3,624.44 \$4,014.82 \$4,405.05 \$4,795.39 \$5,185.71 \$5,576.06 \$5,966.35 \$6,347.03 \$7,137.30 \$7,527.65	EE \$7,541.22 \$8,353.34 \$9,165.44 \$9,977.61 \$10,789.70 \$11,601.83 \$12,414.02 \$13,226.06 \$14,038.22 \$14,038.22 \$14,038.22
Difference due to: ISR E	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	Difference due to: ISR E
DAC Base DAC	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	DAC Base DAC 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00
GCR	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	S0.00 S0.00 S0.00 S0.00 S0.00 S0.00 S0.00 S0.00 S0.00 S0.00
% Chg		% Chg 2.1% 2.1% 2.1% 2.1% 2.1% 2.1% 2.1% 2.1%
Difference	\$3,736.54 \$4,138.99 \$4,541.29 \$4,943.70 \$5,748.52 \$6,150.88 \$6,553.31 \$6,553.31 \$6,955.70 \$7,760.46	Difference \$7,774.45 \$8,611.69 \$9,448.91 \$10,286.20 \$11,123.40 \$11,960.65 \$12,797.96 \$13,635.11 \$14,472.39 \$15,309.65 \$16,146.97
Proposed 2021 EE Rates	\$203,062,47 \$224,264.75 \$245,462.70 \$266,664.94 \$287,865.04 \$309,066.64 \$330,268.21 \$351,469.01 \$372,670.55 \$393,868.47 \$415,070.76	Proposed \$365,615.01 \$365,615.01 \$404,322.55 \$443,029.28 \$481,738.03 \$520,441.45 \$559,149.58 \$597,857.75 \$636,561.09 \$675,269.90 \$713,976.59
Proposed 2022 EE Rates	\$206,799.01 \$228,403.74 \$250,003.99 \$271,608.65 \$293,211.13 \$314,815.15 \$336,419.08 \$358,022.32 \$379,626.25 \$401,226.51 \$422,831.22	Proposed 2022 EE Rates \$373,389.46 \$412,934.24 \$452,478.19 \$492,024.23 \$531,564.85 \$571,110.23 \$610,655.71 \$689,742.30 \$729,286.24
Annual Consumption (Therms)	233,835 259,019 284,197 309,381 334,562 359,745 384,928 410,110 435,293 460,471 485,655 C& I HLF Extra-Large:	Annual Consumption (Therms) 486,528 538,924 591,320 643,718 696,109 748,506 800,903 853,294 905,692 958,088
(121) (122) (123)	(124) (125) (126) (127) (128) (128) (139) (131) (133) (133)	(136) (137) (138) (139) (140) (141) (144) (145) (144) (146) (147)

National Grid - RI Gas Energy Efficiency Program Plan Bill Impact Analysis with Various Levels of Consumption Base Case - Year 3

Residential Heating:

			GET	\$0.22 \$0.24 \$0.26 \$0.26 \$0.38 \$0.36 \$0.36 \$0.40 \$0.45
	$\overline{\text{GET}}$	\$0.29 \$0.32 \$0.33 \$0.33 \$0.34 \$0.44 \$0.50 \$0.50 \$0.57	LIHEAP	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
	LIHEAP	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田	\$9.27 \$10.26 \$11.26 \$12.27 \$13.30 \$14.31 \$15.31 \$16.31 \$18.30 \$19.30
e to:	<u>EE</u>	\$927 \$10.26 \$11.26 \$12.27 \$13.30 \$14.31 \$15.31 \$16.31 \$16.31 \$17.30 \$18.30 \$18.30	DAC ISR	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
Difference due to:	ISR	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	Differe DAC Base DAC	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
DAC	Base DAC	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	Total Bill Discount	(\$2.32) (\$2.32) (\$2.82) (\$3.307) (\$3.33) (\$3.83) (\$4.08) (\$4.83) (\$4.83)
	GCR	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	GCR	\$20.00 \$20.00 \$20.00 \$20.00 \$20.00 \$20.00 \$20.00 \$20.00 \$20.00
	% Chg	1.0% 1.0% 1.1% 1.1% 1.1% 1.1% 1.1% 1.1%	% Chg	1.0% 1.1% 1.1% 1.1% 1.1% 1.1% 1.1%
	Difference	\$9.56 \$10.58 \$11.61 \$12.65 \$13.71 \$14.75 \$15.78 \$16.81 \$17.84 \$16.81 \$17.84 \$18.87 \$19.90	Difference	\$7.17 \$7.93 \$8.71 \$9.49 \$10.28 \$11.06 \$11.84 \$12.61 \$13.38 \$14.15
Proposed	2022 EE Rates	\$942.72 \$1,025.93 \$1,107.72 \$1,189.54 \$1,271.24 \$1,354.45 \$1,437.65 \$1,519.37 \$1,601.16 \$1,682.95 \$1,766.18	Proposed 2022 EE Rates	\$700.59 \$762.30 \$822.95 \$883.62 \$944.21 \$1,005.90 \$1,067.60 \$1,128.19 \$1,128.19 \$1,128.19 \$1,128.19
Proposed	S	\$952.28 \$1,036.51 \$1,119.33 \$1,202.19 \$1,284.95 \$1,453.44 \$1,536.18 \$1,619.00 \$1,701.82 \$1,786.08	Proposed 2023 EE Rates 2	\$707.75 \$770.24 \$831.66 \$893.11 \$954.49 \$1,016.96 \$1,079.44 \$1,140.80 \$1,202.23 \$1,202.23 \$1,263.64 \$1,326.14
Annual		548 608 667 726 785 845 905 905 1,023 1,023 1,142 1,142	Annual Consumption (Therms) 2	548 608 667 726 785 845 905 905 1,023 1,082

National Grid - RI Gas
Energy Efficiency Program Plan
Bill Impact Analysis with Various Levels of Consumption
Base Case - Year 3

Residential Non-Heating:

(31) (32) (32) (33) (34) (35) (36) (37) (38) (39) (40) (41) (42) (42) (43)

			į	<u>GET</u>	\$0.06	\$0.07	\$0.07	\$0.08	\$0.08 \$0.09	\$0.10	\$0.10	\$0.11	\$0.12
	$\overline{ ext{GET}}$	\$0.08 \$0.08 \$0.09 \$0.10 \$0.11 \$0.12 \$0.12 \$0.13 \$0.14 \$0.15	, , ,	LIHEAP	80.00	80.00	\$0.00	\$0.00	00.08 \$0.00	80.00	\$0.00	\$0.00	\$0.00
; to:	LIHEAP	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	į	EE	\$2.43	\$2.91	\$3.20	\$3.40	\$5.72	\$4.23	\$4.52	\$4.76	\$5.00
	EE	\$2.43 \$2.68 \$2.91 \$3.20 \$3.40 \$3.72 \$4.03 \$4.23 \$4.23 \$4.52 \$4.76 \$5.00	Difference due to:	ISR	\$0.00	80.00	\$0.00	\$0.00	00.08	80.00	\$0.00	\$0.00	\$0.00
Difference due to:	ISR	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	Differ DAC	Base DAC	\$0.00	80.00	\$0.00	\$0.00	00.08	80.00	\$0.00	\$0.00	\$0.00
DAC	Base DAC	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00		Discount	(\$0.61)	(\$0.73)	(80.80)	(\$0.85)	(\$0.95) (\$1.01)	(\$1.06)	(\$1.13)	(\$1.19)	(\$1.25)
	GCR	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	,	SCR SCR	\$0.00	80.00	\$0.00	\$0.00	00.08	80.00	80.00	\$0.00	\$0.00
	% Chg	0.6% 0.7% 0.7% 0.7% 0.8% 0.8% 0.8% 0.8%	į	% Chg	%9.0	0.7%	0.7%	0.7%	%°.0 0 %%	%8.0	%8.0	%8.0	%8.0
	Difference	\$2.51 \$2.76 \$3.00 \$3.30 \$3.31 \$3.31 \$3.41 \$4.15 \$4.15 \$4.15 \$4.91 \$5.15	5	<u>Difference</u>	\$1.88	\$2.25	\$2.47	\$2.63	\$2.88 \$3.12	\$3.27	\$3.49	\$3.68	\$3.87
Proposed	2022 EE Rates	\$394.88 \$415.45 \$436.10 \$461.09 \$480.25 \$506.69 \$533.18 \$552.33 \$577.28 \$597.88 \$619.98	Proposed	2022 EE Rates	\$294.48	\$325.05	\$343.58	\$357.82	\$397.06	\$411.29	\$429.82	\$445.09	\$461.49
Proposed	S	\$397.39 \$418.22 \$439.10 \$464.39 \$483.75 \$510.53 \$537.33 \$556.69 \$581.94 \$602.78 \$625.13		2023 EE Rates 20	\$296.36	\$327.30	\$346.05	\$360.45	\$580.50	\$414.56	\$433.32	\$448.77	\$465.36
Annual		144 \$39 158 \$41 172 \$43 172 \$43 189 \$46 202 \$48 220 \$51 238 \$53 251 \$55 268 \$58 282 \$60 297 \$60 297 \$60		Consumption (Therms) 20	144	172	189	202	220	251	268	282	297

(46) (47) (48) (49) (50) (51) (52) (53) (54) (55) (56) (56) (56) (57) (58) (58) (58) (59) (60)

National Grid - RI Gas
Energy Efficiency Program Plan
Bill Impact Analysis with Various Levels of Consumption
Base Case - Year 3

	H	\$0.30	0.34	0.37	0.40	0.43	0.47	0.50	0.53	0.56	09.0	0.63			H	2.52	2.79	\$3.06	3.33	3.61	3.88	4.15	4.42	4.69	4.96	5.23
	GET														GET											
	LIHEAP	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			LIHEAP	80.00	00 0\$	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	80.00	\$0.00
ue to:	EE	89.80	\$10.85	\$11.92	\$12.97	\$14.01	\$15.06	\$16.15	\$17.19	\$18.22	\$19.29	\$20.35		ue to:	EE	\$81.50	890.26	899.00	\$107.80	\$116.59	\$125.36	\$134.14	\$142.91	\$151.68	\$160.43	\$169.22
Difference due to:	ISR	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	80.00	\$0.00	\$0.00	\$0.00		Difference due to:	ISR	80.00	00 08	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	80.00	\$0.00	\$0.00	\$0.00
DAC	Base DAC	\$0.00	80.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	80.00	\$0.00	\$0.00	\$0.00		DAC	Base DAC	80.00	00.08	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
'	GCR	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	80.00	80.00	\$0.00			GCR	80.00	00 0\$	\$0.00	80.00	\$0.00	\$0.00	80.00	80.00	80.00	\$0.00	\$0.00
	% Chg	0.7%	%8.0	%8.0	%8.0	%8.0	%8.0	%8.0	%8.0	0.8%	%8.0	%8.0			% Chg	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%
	Difference	\$10.10	\$11.19	\$12.29	\$13.37	\$14.44	\$15.53	\$16.65	\$17.72	\$18.78	\$19.89	\$20.98			Difference	\$84.02	\$93.05	\$102.06	\$111.13	\$120.20	\$129.24	\$138.29	\$147.33	\$156.37	\$165.39	\$174.45
Proposed	2022 EE Rates	\$1,377.07	\$1,490.45	\$1,606.46	\$1,719.92	\$1,832.15	\$1,946.80	\$2,061.50	\$2,174.93	\$2,287.16	\$2,403.15	\$2,517.81		Proposed	2022 EE Rates	\$8,617.14	\$9,430,11	\$10,240.40	\$11,055.30	\$11,869.23	\$12,682.18	\$13,495.09	\$14,310.04	\$15,123.98	\$15,934.26	\$16,748.17
Proposed	2023 EE Rates	\$1,387.17	\$1,501.64	\$1,618.75	\$1,733.29	\$1,846.60	\$1,962.33	\$2,078.15	\$2,192.65	\$2,305.94	\$2,423.03	\$2,538.79		Proposed	2023 EE Rates	\$8,701.16	\$9,523.16	\$10,342.46	\$11,166.44	\$11,989.43	\$12,811.42	\$13,633.38	\$14,457.37	\$15,280.35	\$16,099.65	\$16,922.62
Annual	Consumption (Therms)	830	919	1,010	1,099	1,187	1,277	1,367	1,456	1,544	1,635	1,725		Annual		6.907	7,650	8,391	9,136	9,880	10,623	11,366	12,111	12,855	13,596	14,340
	Consumpti												C & I Medium:		Consumpti											

(61) (62) (63) (64) (65) (65) (66) (67) (68) (69) (69) (70) (71) (71) (72) (73) (73)

National Grid - RI Gas
Energy Efficiency Program Plan
Bill Impact Analysis with Various Levels of Consumption
Base Case - Year 3

C & I LLF Large:

<u> Jet</u>	\$13.72 \$15.19 \$16.67 \$18.15 \$19.63 \$21.10 \$22.58 \$22.58 \$24.06 \$25.53 \$27.01 \$28.49	GET \$15.31 \$16.96 \$18.61 \$20.26 \$21.91 \$23.55 \$25.20 \$26.85 \$28.50 \$30.15
O,	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	00000000
LIHEAP		<u> </u>
e due to:	\$443.52 \$491.28 \$539.06 \$586.83 \$634.56 \$682.33 \$777.86 \$825.61 \$873.39 \$825.61	e due to: \$495.06 \$548.36 \$560.69 \$5654.99 \$708.34 \$761.61 \$814.92 \$868.27 \$868.27 \$868.27 \$868.27 \$868.27 \$868.27
Difference due to:	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	Difference due to: ISR \$0.00 \$46 \$0.00 \$56 \$0.00 \$56 \$0.00 \$77 \$70 \$70 \$70 \$70 \$70 \$70 \$70 \$70 \$
DAC Base DAC	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	DAC Base DAC \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
GCR	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
<u>51</u>	1.0% 1.0% 1.0% 1.1% 1.1% 1.1%	Chg 1.2% 1.3% 1.3% 1.3% 1.3% 1.3%
% Chg		%
Difference	\$457.24 \$506.47 \$555.73 \$604.98 \$654.19 \$772.69 \$801.92 \$851.14 \$900.40	S510.37 \$565.32 \$620.30 \$675.25 \$730.25 \$730.25 \$785.16 \$840.12 \$895.12 \$950.09 \$1,005.05
Proposed 2022 EE Rates	\$44,435.54 \$48,952.11 \$53,471.30 \$57,989.56 \$62,505.13 \$67,023.34 \$71,541.55 \$76,058.13 \$80,575.38 \$85,094.58	Proposed 2022 EE Rates \$41,067.65 \$45,219.90 \$49,376.31 \$53,529.36 \$57,686.60 \$61,840.50 \$65,994.41 \$70,151.57 \$74,304.64 \$78,461.04 \$82,616.72
Proposed 2023 EE Rates	\$44,892.78 \$49,458.58 \$54,027.03 \$58,594.54 \$63,159.31 \$67,726.77 \$72,294.24 \$76,860.05 \$81,426.52 \$85,994.98	Proposed 2023 EE Rates \$41,578.02 \$45,785.22 \$49,996.61 \$54,204.61 \$58,416.85 \$62,625.67 \$66,834.53 \$71,046.70 \$75,254.73 \$79,466.09 \$83,676.72
Annual Consumption (Therms)	37,587 41,634 45,683 49,731 53,777 57,825 61,873 65,920 69,967 74,016	Annual Consumption (Therms) 2 41,956 46,471 50,991 55,507 60,028 64,545 69,062 73,583 78,099 82,619 82,619
(91) (92) (93)	(94) (95) (96) (97) (100) (101) (102) (103) (104)	(106) (107) (108) (108) (109) (119) (114) (114) (116) (116) (117) (118)

National Grid - RI Gas
Energy Efficiency Program Plan
Bill Impact Analysis with Various Levels of Consumption
Base Case - Year 3

C & I LLF Extra-Large:

GET	\$85.34 \$94.53 \$103.72 \$112.91 \$131.29 \$140.48 \$149.67 \$158.86 \$168.05 \$177.24	S177.56 \$196.68 \$215.80 \$234.92 \$254.04 \$273.17 \$292.29 \$311.41 \$330.53 \$349.65
LIHEAP	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	SO 00 SO 00
due to: EE	\$2,759.24 \$3,056.42 \$3,353.52 \$3,650.70 \$3,947.83 \$4,244.97 \$4,542.16 \$4,839.30 \$5,136.45 \$5,136.45	He to: EE \$5,741.02 \$6,359.30 \$6,977.57 \$7,595.86 \$8,214.08 \$8,832.38 \$9,450.67 \$10,068.85 \$11,305.45 \$11,305.45
Difference due to: $\overline{1SR}$	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	Difference due to: ISR E
DAC Base DAC	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	DAC Base DAC 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00
GCR	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	GCR S S S S S S S S S S S S S S S S S S S
% Chg	1.4% 1.4% 1.4% 1.4% 1.4% 1.4% 1.4% 1.4%	% Chg 1.6% 1.6% 1.6% 1.6% 1.6% 1.6%
Difference	\$2,844.58 \$3,150.95 \$3,457.24 \$3,763.61 \$4,069.93 \$4,376.26 \$4,88.97 \$5,295.31 \$5,007.99	Difference \$5,918.58 \$6,555.98 \$7,193.37 \$7,830.78 \$8,468.12 \$9,105.55 \$9,105.55 \$9,105.55 \$11,017.71 \$11,655.10 \$11,655.10
Proposed 2022 EE Rates	\$206,799.01 \$228,403.74 \$250,003.99 \$271,608.65 \$293,211.13 \$314,815.15 \$336,419.08 \$358,022.32 \$379,626.25 \$401,226.51 \$422,831.22	Proposed 2022 EE Rates 8373,389.46 8412,934.24 8452,478.19 8492,024.23 8531,564.85 8571,110.23 8610,655.71 8689,742.30 8729,286.24 8768,831.69
Proposed 2023 EE Rates	\$209,643.59 \$231,554.69 \$253,461.23 \$275,372.25 \$297,281.06 \$319,191.41 \$341,101.72 \$363,011.29 \$384,921.56 \$406,828.11	Proposed 2023 EE Rates 8379,308.04 8419,490.22 8459,671.56 8499,855.01 8540,032.97 8580,215.77 860,576.46 8700,760.01 8740,941.35
Annual Consumption (Therms)	233,835 259,019 284,197 309,381 334,562 359,745 384,928 410,110 435,293 460,471 485,655	Annual Consumption (Therms) 486,528 538,924 591,320 643,718 696,109 748,506 800,903 853,294 905,692 958,088
(121) (122) (123)	_	(136) (147) (148) (148) (149) (149) (149) (149) (149)

National Grid - RI Gas Energy Efficiency Program Plan Bill Impact Analysis with Various Levels of Consumption High Scenario - Year 1

Residential Heating:

		GET	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
<u>GET</u>	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	LIHEAP	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
LIHEAP	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	田田	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
e to: <u>EE</u>	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	Difference due to: DAC C ISR	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
Difference due to: ISR E	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	Differe DAC Base DAC	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
DAC Base DAC	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Total Bill Discount	8 8 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
GCR	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	GCR	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
% Chg	%0.0 %0.0 %0.0 %0.0 %0.0 %0.0 0.0 %0.0	% Chg	0.00% 0.00% 0.00% 0.00% 0.00% 0.00%
Difference	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	Difference	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
Current 2020 EE Rates	\$930.14 \$1,011.94 \$1,092.40 \$1,172.87 \$1,253.20 \$1,416.83 \$1,497.23 \$1,577.64 \$1,658.09 \$1,577.64 \$1,658.09	Current 2020 EE Rates	\$691.15 \$751.81 \$811.46 \$871.12 \$930.67 \$991.33 \$1,051.98 \$1,111.58 \$1,171.22 \$1,230.84 \$1,291.53
Proposed 2021 EE Rates 2	\$930.14 \$1,011.94 \$1,092.40 \$1,172.87 \$1,253.20 \$1,416.83 \$1,497.23 \$1,577.64 \$1,658.09 \$1,577.64 \$1,658.09	roposed EE Rates	\$691.15 \$751.81 \$811.46 \$871.12 \$930.67 \$991.33 \$1,051.98 \$1,111.58 \$1,171.22 \$1,291.53
Annual Consumption (Therms) 2	548 608 667 726 785 845 905 1,023 1,082 1,142	Residential Heating Low Income: Annual P Consumption (Therms) 2021	548 608 667 726 785 845 905 904 1,023 1,082 1,142

National Grid - RI Gas Energy Efficiency Program Plan Bill Impact Analysis with Various Levels of Consumption High Scenario - Year 1

Residential Non-Heating:

(31) (32) (32) (33) (34) (35) (36) (36) (37) (38) (39) (40) (41) (42) (42) (42) (42) (43)

			GET	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
	$\overline{ ext{GET}}$	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	LIHEAP	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
	LIHEAP	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	EE	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
ie to:	BE	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	Difference due to: DAC C ISR	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
Difference due to:	ISR	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	Differe DAC Base DAC	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
DAC	Base DAC	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	Total Bill Discount	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
	GCR	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	GCR	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
	% Chg	%%%%%%%%% 000 000 000 000 000 000 000 0	% Chg	%0.0 %0.0 %0.0 %0.0 %0.0 %0.0 %0.0 %0.0
	Difference	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	Difference	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
Current	2020 EE Rates	\$391.60 \$411.85 \$432.15 \$456.76 \$475.61 \$501.64 \$527.71 \$546.56 \$571.12 \$591.40	Current 2020 EE Rates	\$292.01 \$307.03 \$322.09 \$340.33 \$354.34 \$373.64 \$392.96 \$406.96 \$440.23
Proposed	S	\$391.60 \$411.85 \$432.15 \$456.76 \$475.61 \$501.64 \$527.71 \$546.56 \$571.12 \$591.40 \$613.14	Proposed 2021 EE Rates 20	\$292.01 \$307.03 \$322.09 \$340.33 \$354.34 \$373.64 \$392.96 \$406.96 \$440.23 \$440.23
Annual		144 \$39 158 \$41 172 \$43 172 \$43 189 \$45 202 \$47 220 \$50 238 \$52 251 \$54 268 \$57 282 \$59 297 \$61	Annual F Consumption (Therms) 202	144 158 172 172 189 202 220 238 251 251 268 282 297

National Grid - RI Gas Energy Efficiency Program Plan Bill Impact Analysis with Various Levels of Consumption High Scenario - Year 1

GET	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	S0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
5		Öl
LIHEAP	00 00 00 00 00 00 00 00 00 00 00 00 00	LIHEAP 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00
ue to:	000000000000000000000000000000000000000	EEE S0.00 S0
Difference due to: ISR E	00.00 00	ISR E E
DAC Base DAC	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	DAC Base DAC 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00
GCR	\$0.00 \$0.00	S0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
% Chg	0.00% 0.00% 0.00% 0.00% 0.00% 0.00%	% Chg 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%
Difference	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Difference \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
Current 2020 EE Rates	\$1,363.85 \$1,475.78 \$1,590.33 \$1,702.35 \$1,813.18 \$1,926.42 \$2,039.65 \$2,039.65 \$2,151.68 \$2,562.48 \$2,376.99 \$2,490.23	Current \$8,506.77 \$9,307.87 \$10,106.29 \$10,909.32 \$11,711.37 \$12,512.44 \$13,313.50 \$14,116.52 \$14,918.56 \$15,716.98 \$15,716.98
Proposed 2021 EE Rates	\$1,363.85 \$1,475.78 \$1,590.33 \$1,702.35 \$1,926.42 \$2,039.65 \$2,151.68 \$2,262.48 \$2,376.99 \$2,490.23	Proposed 2021 EE Rates \$8,506.77 \$9,307.87 \$10,106.29 \$10,909.32 \$11,711.37 \$12,512.44 \$13,313.50 \$14,116.52 \$14,116.52 \$14,918.56 \$15,716.98 \$16,519.01
Annual Consumption (Therms)	830 919 1,010 1,099 1,187 1,277 1,367 1,456 1,544 1,635	Annual Consumption (Therms) 7,650 8,391 9,136 9,136 11,366 12,111 12,855 13,596 14,340
(61) (62) (63)	243210888088	(27) (38) (38) (38) (38) (38) (38) (38) (38

National Grid - RI Gas Energy Efficiency Program Plan Bill Impact Analysis with Various Levels of Consumption High Scenario - Year I

C & I LLF Large:

GET	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	GET	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
LIHEAP	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	LIHEAP	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
ue to:	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	ue to: $\overline{\rm EE}$	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Difference due to: ISR E	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	Dif SI	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
DAC Base DAC	\$ \$0.00 \$ \$0.00 \$ \$0.00 \$ \$0.00 \$ \$0.00 \$ \$0.00 \$ \$0.00 \$ \$0.00 \$ \$0.00	DAC Base DAC	00000000000000000000000000000000000000
GCR	\$ \$0.00 \$ \$0.00 \$ \$0.00 \$ \$0.00 \$ \$0.00 \$ \$0.00 \$ \$0.00 \$ \$0.00	GCR	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
% Chg	0.0% 0.0% 0.0% 0.0% 0.0% 0.00 0.0%	% Chg	%0.0 %0.0 %0.0 %0.0 %0.0 %0.0 %0.0
Difference	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	<u>Difference</u>	80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00
Current 2020 EE Rates	\$43,834.92 \$48,286.83 \$52,741.30 \$57,194.89 \$61,645.80 \$66,099.35 \$70,552.86 \$75,004.75	Current 2020 EE Rates	\$40,397,22 \$44,477.32 \$48,561.52 \$52,642.41 \$50,809.11 \$64,890.83 \$68,975.78 \$73,056.69 \$77,140.84
Proposed 2021 EE Rates	\$43,834,92 \$48,286,83 \$52,741.30 \$57,194.89 \$61,645.80 \$66,099.35 \$70,552.86 \$70,552.86 \$75,004.75 \$79,457.35	Proposed 2021 EE Rates	\$40,397.22 \$44,477.32 \$48,561.52 \$52,642.41 \$56,727.39 \$60,809.11 \$64,890.83 \$68,975.78 \$73,056.69 \$77,140.84
Annual Consumption (Therms) 2	37,587 41,634 45,683 49,731 53,777 57,825 61,873 65,920 69,967 74,016		41,530 46,471 50,991 55,507 60,028 64,545 69,062 73,583 78,099 82,619 87,137
(91) (92) (93)	(94) (95) (96) (97) (98) (100) (101) (102) (103) (103) (104)	(106) (107) (108) (109)	(113) (113) (114) (118) (118) (119)

National Grid - RI Gas Energy Efficiency Program Plan Bill Impact Analysis with Various Levels of Consumption High Scenario - Year 1

C & I LLF Extra-Large:

	GET	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00				<u>GET</u>	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	<u>IHEAP</u> (\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00				<u> </u>	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
; to:	T <u>aa</u>	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			to:	T EE	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Difference due to:	ISR	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	80.00			Difference due to:	ISR	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
DAC	Base DAC	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			DAC	Base DAC	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	GCR	\$0.00	\$0.00	80.00	80.00	80.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00				GCR	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	ρđ	9	9	9	9	9	9	9	9	9	9	9				ρή	9	9	9	9	9	9	%	9,	9,	9	9
	% Chg	0.0%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				% Chg	0.0%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Difference	\$0.00	\$0.00	80.00	80.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00				Difference	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Current	2020 EE Rates	\$203,062.47	\$224,264.75	\$245,462.70	\$266,664.94	\$287,865.04	\$309,066.64	\$330,268.21	\$351,469.01	\$372,670.55	\$393,868.47	\$415,070.76			Current	2020 EE Rates	\$365,615.01	\$404,322.55	\$443,029.28	\$481,738.03	\$520,441.45	\$559,149.58	\$597,857.75	\$636,561.09	\$675,269.90	\$713,976.59	\$752,684.72
Proposed	2021 EE Rates	\$203,062.47	\$224,264.75	\$245,462.70	\$266,664.94	\$287,865.04	\$309,066.64	\$330,268.21	\$351,469.01	\$372,670.55	\$393,868.47	\$415,070.76			Proposed	2021 EE Rates	\$365,615.01	\$404,322.55	\$443,029.28	\$481,738.03	\$520,441.45	\$559,149.58	\$597,857.75	\$636,561.09	\$675,269.90	\$713,976.59	\$752,684.72
Annual	Consumption (Therms) 2	233,835	259,019	284,197	309,381	334,562	359,745	384,928	410,110	435,293	460,471	485,655	C & I HLF Extra-Large:		Annual	Consumption (Therms) 2	486,528	538,924	591,320	643,718	696,109	748,506	800,903	853,294	905,692	958,088	1,010,485
(121)	(123)	(125)	(126)	(127)	(128)	(129)	(130)	(131)	(132)	(133)	(134)	(135)		-	(136) (137)	(138)	(140)	(141)	(142)	(143)	(144)	(145)	(146)	(147)	(148)	(149)	(150)

National Grid - RI Gas Energy Efficiency Program Plan Bill Impact Analysis with Various Levels of Consumption High Scenario - Year 2

Residential Heating:

															$\overline{ ext{GET}}$	\$0.51	\$0.56	\$0.62	80.67	\$0.73	\$0.78	\$0.84	80.89	\$0.95	\$1.00	\$1.06
	GET	89.08	\$0.75	\$0.82	\$0.90	80.97	\$1.04	\$1.12	\$1.19	\$1.26	\$1.34	\$1.41			LIHEAP	80.00	\$0.00	\$0.00	\$0.00	80.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	LIHEAP	\$0.00	80.00	80.00	80.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			EE	\$21.87	\$24.26	\$26.60	\$28.96	\$31.35	\$33.71	\$36.14	\$38.46	\$40.80	\$43.17	\$45.56
e to:	EE	\$21.87	\$24.26	\$26.60	\$28.96	\$31.35	\$33.71	\$36.14	\$38.46	\$40.80	\$43.17	\$45.56		Difference due to:	ISR	80.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Difference due to:	ISR	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		Differe DAC	Base DAC	80.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
DAC	Base DAC	\$0.00	80.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		Total Bill		(\$5.47)	(\$6.06)	(\$6.65)	(\$7.24)	(\$7.84)	(\$8.43)	(\$9.04)	(\$9.61)	(\$10.20)	(\$10.79)	(\$11.39)
	GCR	80.00	\$0.00	\$0.00	\$0.00	80.00	\$0.00	\$0.00	\$0.00	80.00	\$0.00	\$0.00			GCR	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	80.00	80.00
	% Chg	2.4%	2.5%	2.5%	2.5%	2.6%	2.6%	2.6%	2.6%	2.7%	2.7%	2.7%			% Chg	2.4%	2.5%	2.5%	2.6%	2.6%	2.6%	2.7%	2.7%	2.7%	2.7%	2.7%
	Difference	\$22.55	\$25.01	\$27.42	\$29.86	\$32.32	\$34.75	\$37.26	\$39.65	\$42.06	\$44.51	\$46.97			Difference	\$16.91	\$18.76	\$20.57	\$22.39	\$24.24	\$26.06	\$27.94	\$29.74	\$31.55	\$33.38	\$35.23
Proposed	<u> 2021 ÈE Rates</u>	\$930.14	\$1,011.94	\$1,092.40	\$1,172.87	\$1,253.20	\$1,335.02	\$1,416.83	\$1,497.23	\$1,577.64	\$1,658.09	\$1,739.92		Proposed	2021 EE Rates	\$691.15	\$751.81	\$811.46	\$871.12	\$930.67	\$991.33	\$1,051.98	\$1,111.58	\$1,171.22	\$1,230.84	\$1,291.53
Proposed	2022 ÉE Rates 2	\$952.68	\$1,036.95	\$1,119.82	\$1,202.73	\$1,285.52	\$1,369.78	\$1,454.09	\$1,536.87	\$1,619.71	\$1,702.59	\$1,786.89	ie:	Proposed	Se	\$708.06	\$770.57	\$832.03	\$893.51	\$954.91	\$1,017.40	\$1,079.92	\$1,141.32	\$1,202.76	\$1,264.22	\$1,326.75
Annual	Consumption (Therms) 20	548	809	299	726	785	845	905	964	1,023	1,082	1,142	Residential Heating Low Income:	Annual		548	809	299	726	785	845	905	964	1,023	1,082	1,142

National Grid - RI Gas Energy Efficiency Program Plan Bill Impact Analysis with Various Levels of Consumption High Scenario - Year 2

Residential Non-Heating:

(31) (32) (32) (33) (34) (35) (36) (37) (38) (39) (40) (41) (42) (42) (43) (44)

															GET	\$0.13	\$0.15	\$0.16	\$0.17	\$0.19	\$0.20	\$0.22	\$0.23	\$0.25	\$0.26	\$0.28	
	$\overline{ ext{GET}}$	\$0.18	\$0.20	\$0.21	\$0.23	\$0.25	\$0.27	\$0.29	\$0.31	\$0.33	\$0.35	\$0.37			LIHEAP	\$0.00	\$0.00	00.08	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
	LIHEAP	\$0.00	\$0.00	\$0.00	80.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			EE	\$5.74	\$6.32	86.87	\$7.54	\$8.05	88.80	\$9.51	\$10.01	\$10.69	\$11.26	\$11.86	
le to:	EE	\$5.74	\$6.32	86.87	\$7.54	\$8.05	88.80	\$9.51	\$10.01	\$10.69	\$11.26	\$11.86		Difference due to:	ISR	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Difference due to:	ISR	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		Differe DAC	Base DAC	80.00	80.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
DAC	Base DAC	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		Total Bill		(\$1.44)	(\$1.58)	(\$1.72)	(\$1.89)	(\$2.01)	(\$2.20)	(\$2.38)	(\$2.50)	(\$2.67)	(\$2.82)	(\$2.96)	
	GCR	\$0.00	\$0.00	\$0.00	80.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	80.00	\$0.00			GCR	\$0.00	\$0.00	80.00	\$0.00	\$0.00	80.00	80.00	80.00	\$0.00	\$0.00	\$0.00	
	% Chg	1.5%	1.6%	1.6%	1.7%	1.7%	1.8%	1.9%	1.9%	1.9%	2.0%	2.0%			% Chg	1.5%	1.6%	1.6%	1.7%	1.8%	1.8%	1.9%	1.9%	1.9%	2.0%	2.0%	
	Difference	\$5.92	\$6.52	82.08	87.77	\$8.30	89.07	89.80	\$10.32	\$11.02	\$11.61	\$12.23			Difference	\$4.44	\$4.89	\$5.31	\$5.83	\$6.22	86.80	\$7.35	\$7.74	\$8.27	\$8.71	\$9.17	
Proposed	2021 ÉE Rates	\$391.60	\$411.85	\$432.15	\$456.76	\$475.61	\$501.64	\$527.71	\$546.56	\$571.12	\$591.40	\$613.14		Proposed	<u>2021 ÉE Rates</u>	\$292.01	\$307.03	\$322.09	\$340.33	\$354.34	\$373.64	\$392.96	\$406.96	\$425.20	\$440.23	\$456.37	
Proposed	2022 EE Rates 2	\$397.51	\$418.36	\$439.23	\$464.54	\$483.91	\$510.71	\$537.52	\$556.88	\$582.14	\$603.01	\$625.37	Income:	Proposed	2022 ÉE Rates 2	\$296.45	\$311.92	\$327.40	\$346.16	\$360.56	\$380.44	\$400.32	\$414.70	\$433.47	\$448.94	\$465.54	
Annual		144	158	172	189	202	220	238	251	268	282	297	Residential Non-Heating Low Income:	Annual		144	158	172	189	202	220	238	251	268	282	297	

(46) (47) (48) (49) (50) (51) (52) (53) (54) (55) (56) (56) (56) (57) (58) (58) (58) (59) (60)

National Grid - RI Gas Energy Efficiency Program Plan Bill Impact Analysis with Various Levels of Consumption High Scenario - Year 2

GET	\$0.71 \$0.79 \$0.87 \$0.95 \$1.02 \$1.18 \$1.25 \$1.33 \$1.41 \$1.48	GET \$5.94 \$6.58 \$7.22 \$7.86 \$8.49 \$9.13 \$9.77 \$11.05 \$11.69
LIHEAP	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
te to:	\$23.05 \$25.55 \$28.07 \$30.58 \$33.00 \$35.47 \$38.01 \$40.48 \$42.95 \$45.46 \$47.96	EE 8192.02 \$212.68 \$233.30 \$253.99 \$274.67 \$295.32 \$315.95 \$336.66 \$337.98
Difference due to:	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	Difference due to: ISR El S0.00 \$15 \$0.00 \$22 \$0.00 \$22 \$0.00 \$22 \$0.00 \$22 \$0.00 \$23 \$0.00 \$0.00 \$23 \$0.00
DAC Base DAC	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	DAC Base DAC 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00
GCR	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	S0.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00
<u> </u>	%%%%%%%%%%%%%	웹
% Chg	1.7% 1.8% 1.9% 1.9% 1.9% 2.0% 2.0%	% Chg 2.3% 2.4% 2.4% 2.4% 2.5% 2.5% 2.5% 2.5%
Difference	\$23.76 \$26.34 \$28.94 \$31.53 \$34.02 \$36.77 \$39.19 \$41.73 \$44.28 \$46.87 \$49.44	S197.96 \$219.26 \$240.52 \$261.85 \$283.16 \$304.45 \$325.72 \$347.07 \$389.67 \$410.99
Proposed 2021 EE Rates	\$1,363.85 \$1,475.78 \$1,590.33 \$1,702.35 \$1,813.18 \$1,926.42 \$2,039.65 \$2,151.68 \$2,262.48 \$2,376.99 \$2,490.23	Proposed \$8,506.77 \$9,307.87 \$10,106.29 \$10,909.32 \$11,711.37 \$12,512.44 \$13,313.50 \$14,116.52 \$14,116.52 \$14,918.56 \$15,716.98 \$16,519.01
Proposed 2022 EE Rates	\$1,387.61 \$1,502.12 \$1,619.27 \$1,733.87 \$1,847.20 \$1,962.99 \$2,078.84 \$2,193.41 \$2,193.41 \$2,306.75 \$2,423.86 \$2,539.67	Proposed \$2022 EE Rates \$8,704.73 \$9,527.13 \$10,346.81 \$11,71.16 \$11,994.53 \$12,816.89 \$13,639.22 \$14,463.59 \$15,286.99 \$15,286.99 \$16,930.00
Annual Consumption (Therms) 2	830 919 1,010 1,099 1,187 1,277 1,367 1,456 1,544 1,535 1,725 1,725	Annual Consumption (Therms) 2 6,907 7,650 8,391 9,136 9,880 11,366 12,111 12,855 13,596 14,340
(61) (62) (63)	(65) (65) (67) (68) (69) (69) (69) (73) (73) (73) (73) (73) (73) (73) (73	(76) (77) (77) (73) (74) (74) (75) (76) (76) (76) (76) (76) (76) (76) (76

National Grid - RI Gas Energy Efficiency Program Plan Bill Impact Analysis with Various Levels of Consumption High Scenario - Year 2

<u>GET</u>	\$32.32 \$35.80 \$39.28 \$42.76 \$49.72 \$53.20 \$53.20 \$56.68 \$60.16 \$67.12	GET S36.07 S39.96 S43.84 S47.72 S51.61 S55.49 S59.38 S63.27 S67.15
LIHEAP	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	S0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
ue to: <u>EE</u>	\$1,044.91 \$1,157.42 \$1,269.99 \$1,382.52 \$1,494.99 \$1,720.07 \$1,720.07 \$1,832.59 \$1,945.07 \$2,057.65 \$2,170.13	ue to: EE \$1,166.37 \$1,291.88 \$1,417.54 \$1,543.09 \$1,668.79 \$1,668.79 \$1,794.33 \$1,919.95 \$2,045.59 \$2,206.83
Difference due to: ISR E	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	Difference due to: ISR
DAC Base DAC	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	Base DAC 80.00 \$0.00
GCR	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	S0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
% Chg	2.5% 2.5% 2.55% 2.55% 2.55% 2.55% 2.55%	% Chg 3.0% 3.0% 3.0% 3.1% 3.1% 3.1% 3.1%
Difference	\$1,077.23 \$1,193.22 \$1,309.27 \$1,425.28 \$1,541.23 \$1,657.23 \$1,73.27 \$1,889.27 \$2,005.23 \$2,121.29 \$2,237.25	Difference \$1,202.44 \$1,331.84 \$1,461.38 \$1,590.81 \$1,720.40 \$1,849.82 \$1,979.33 \$2,108.86 \$2,238.28 \$2,367.87
Proposed 2021 EE Rates	\$43,834.92 \$48,286.83 \$52,741.30 \$57,194.89 \$61,645.80 \$66,099.35 \$70,552.86 \$75,004.75 \$79,457.35 \$83,911.82	Proposed 2021 EE Rates \$40,397.22 \$44,477.32 \$48,561.52 \$52,642.41 \$56,727.39 \$60,809.11 \$64,890.83 \$68,975.78 \$73,056.69 \$77,140.84
Proposed 2022 EE Rates	\$44,912.15 \$49,480.04 \$54,050.57 \$58,620.16 \$63,187.02 \$67,756.58 \$72,326.13 \$76,894.02 \$81,462.58 \$86,033.11 \$90,600.98	Proposed 2022 EE Rates \$41,599.66 \$45,809.16 \$50,022.90 \$54,233.22 \$58,447.79 \$62,658.93 \$66,870.16 \$71,084.63 \$75,294.97 \$79,508.70
Annual Consumption (Therms) 20	37,587 41,634 45,683 49,731 53,777 57,825 61,873 65,920 69,967 74,016	Annual Consumption (Therms) 24 46,471 50,991 55,507 60,028 64,545 69,062 73,583 78,099 78,099 82,619 82,619
(91) (92) (93)	(94) (95) (96) (97) (100) (101) (102) (103) (104)	(100) (100) (100) (111) (113) (114) (115) (116) (117) (118) (118) (119) (119) (119) (110) (10) (

National Grid - RI Gas Energy Efficiency Program Plan Bill Impact Analysis with Various Levels of Consumption High Scenario - Year 2

C & I LLF Extra-Large:

	55 00 00 11 11 11	11. 66. 12. 14. 66. 15. 14. 16. 16. 17. 18. 18. 18. 18. 18. 18. 18. 18. 18. 18
GET	\$201.05 \$222.70 \$244.35 \$266.00 \$287.65 \$330.94 \$330.96 \$352.61 \$374.26 \$395.91 \$417.56	GET \$418.32 \$463.36 \$508.41 \$553.46 \$598.51 \$643.56 \$688.61 \$778.71 \$823.76 \$823.76
LIHEAP	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	S0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
due to:	\$6,500.61 \$7,200.76 \$7,900.68 \$8,600.76 \$9,300.82 \$10,000.91 \$10,700.98 \$11,401.07 \$12,101.15 \$12,801.09 \$13,501.21	sidue to: S13,525,52 S14,982.10 S16,438.69 S17,895.35 S19,351.82 S20,808.47 S22,265.13 S23,721.55 S23,721.55 S26,634.86 S28,691.51
Difference due to: ISR E	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	Difference due to: ISR
DAC Base DAC	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	DAC Base DAC \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
GCR	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	SO.00 SO.00 SO.00 SO.00 SO.00 SO.00 SO.00
% Chg	6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6	% CH B 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
Difference	\$6,701.66 \$7,423.46 \$8,145.03 \$8,866.76 \$9,588.47 \$10,310.22 \$11,031.94 \$11,753.68 \$12,475.41 \$13,197.00 \$13,918.77	Difference \$13,943.84 \$15,445.46 \$16,947.10 \$18,448.81 \$19,950.33 \$21,452.03 \$22,953.74 \$22,953.74 \$22,956.94 \$25,956.94 \$27,458.62
Proposed 2021 EE Rates	\$203,062.47 \$224,264.75 \$245,462.70 \$266,664.94 \$287,865.04 \$309,066.64 \$330,268.21 \$351,469.01 \$372,670.55 \$393,868.47 \$415,070.76	Proposed 2021 EE Rates \$365,615.01 \$404,322.55 \$443,029.28 \$481,738.03 \$520,441.45 \$559,149.58 \$597,857.75 \$675,269.90 \$713,976.59 \$713,976.59
Proposed 2022 EE Rates	\$209,764.13 \$231,688.21 \$253,607.73 \$275,531.71 \$297,453.52 \$319,376.85 \$341,300.15 \$363,222.69 \$385,145.96 \$407,065.47	Proposed 2022 EE Rates 8379,558.84 8419,768.01 8459,976.38 8500,186.84 8540,391.78 8580,601.61 8620,811.49 8620,811.49 8701,226.84 8741,435.21 8781,645.04
Annual Consumption (Therms)	233,835 259,019 284,197 309,381 334,562 359,745 384,928 410,110 435,293 460,471 485,655	mal ms) 28 224 224 220 200 200 200 200 200 200 200
(121) (122) (123)	(124) (125) (126) (128) (130) (131) (133) (134) (135)	(136) (137) (138) (138) (140) (141) (143) (144) (144) (144) (145) (146) (149) (150)

National Grid - RI Gas Energy Efficiency Program Plan Bill Impact Analysis with Various Levels of Consumption High Scenario - Year 3

Residential Heating:

															GET	\$0.42	\$0.47	\$0.51	\$0.56	\$0.61	\$0.65	\$0.70	\$0.74	\$0.79	\$0.84	\$0.88
	GET	\$0.56	\$0.63	80.69	\$0.75	\$0.81	80.87	\$0.93	80.99	\$1.05	\$1.11	\$1.18			LIHEAP	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	LIHEAP	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			EE	\$18.25	\$20.26	\$22.20	\$24.15	\$26.11	\$28.14	\$30.13	\$32.11	\$34.08	\$36.02	\$38.02
ie to:	EE	\$18.25	\$20.26	\$22.20	\$24.15	\$26.11	\$28.14	\$30.13	\$32.11	\$34.08	\$36.02	\$38.02		Difference due to:	ISR	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	80.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Difference due to:	ISR	80.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		Differe	Base DAC	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
DAC	Base DAC	\$0.00	00.08	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	80.00	\$0.00	\$0.00		Total Rill	Į	(\$4.56)	(\$5.06)	(\$5.55)	(\$6.04)	(\$6.53)	(\$7.04)	(\$7.53)	(\$8.03)	(\$8.52)	(\$9.01)	(\$9.51)
	GCR	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	80.00	\$0.00	\$0.00			GCR	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	80.00
	% Chg	2.0%	2.0%	2.0%	2.1%	2.1%	2.1%	2.1%	2.2%	2.2%	2.2%	2.2%			% Chg	2.0%	2.0%	2.1%	2.1%	2.1%	2.1%	2.2%	2.2%	2.2%	2.2%	2.2%
	Difference	\$18.81	\$20.89	\$22.89	\$24.90	\$26.92	\$29.01	\$31.06	\$33.10	\$35.13	\$37.13	\$39.20			Difference	\$14.11	\$15.66	\$17.16	\$18.67	\$20.19	\$21.76	\$23.30	\$24.83	\$26.35	\$27.85	\$29.40
Proposed	2022 ÈE Rates	\$952.68	\$1,036.95	\$1,119.82	\$1,202.73	\$1,285.52	\$1,369.78	\$1,454.09	\$1,536.87	\$1,619.71	\$1,702.59	\$1,786.89		Pronosed	2022 EE Rates	\$708.06	\$770.57	\$832.03	\$893.51	\$954.91	\$1,017.40	\$1,079.92	\$1,141.32	\$1,202.76	\$1,264.22	\$1,326.75
Proposed	S	\$971.50	\$1,057.84	\$1,142.71	\$1,227.63	\$1,312.44	\$1,398.79	\$1,485.15	\$1,569.98	\$1,654.84	\$1,739.72	\$1,826.09	ne:	Pronosed	es	\$722.17	\$786.23	\$849.19	\$912.18	\$975.10	\$1,039.15	\$1,103.22	\$1,166.15	\$1,229.12	\$1,292.07	\$1,356.15
Annual		548	809	299	726	785	845	905	964	1,023	1,082	1,142	Residential Heating Low Income:	Annua		548	809	299	726	785	845	905	964	1,023	1,082	1,142

National Grid - RI Gas Energy Efficiency Program Plan Bill Impact Analysis with Various Levels of Consumption High Scenario - Year 3

Residential Non-Heating:

(31) (32) (32) (33) (34) (35) (36) (36) (37) (38) (39) (40) (41) (42) (42) (42) (43)

															$\overline{\text{GET}}$	\$0.11	\$0.12	\$0.13	\$0.15	\$0.16	\$0.17	\$0.18	\$0.19	\$0.21	\$0.22	\$0.23	
	$\overline{ ext{GET}}$	\$0.15	\$0.16	\$0.18	\$0.19	\$0.21	\$0.23	\$0.24	\$0.26	\$0.28	\$0.29	\$0.31			LIHEAP	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	00.08	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
	LIHEAP	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			EE	\$4.78	\$5.26	\$5.71	\$6.27	\$6.71	\$7.29	\$7.92	\$8.36	\$8.93	\$9.37	88.6\$	
e to:	EE	\$4.78	\$5.26	\$5.71	\$6.27	\$6.71	\$7.29	\$7.92	\$8.36	\$8.93	\$9.37	88.6\$		Difference due to: DAC	ISR	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Difference due to:	ISR	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		Differe DAC	Base DAC	80.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
DAC	Base DAC	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		Total Bill	l	(\$1.19)	(\$1.31)	(\$1.43)	(\$1.57)	(\$1.68)	(\$1.82)	(\$1.98)	(\$2.09)	(\$2.23)	(\$2.34)	(\$2.47)	
	GCR	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			GCR	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
	% Chg	1.2%	1.3%	1.3%	1.4%	1.4%	1.5%	1.5%	1.5%	1.6%	1.6%	1.6%			% Chg	1.2%	1.3%	1.3%	1.4%	1.4%	1.5%	1.5%	1.6%	1.6%	1.6%	1.6%	
	Difference	\$4.93	\$5.42	\$5.89	\$6.46	\$6.92	\$7.52	\$8.16	\$8.62	\$9.21	\$9.68	\$10.19			Difference	\$3.70	\$4.07	\$4.41	\$4.85	\$5.19	\$5.64	\$6.12	\$6.46	86.90	\$7.24	\$7.64	
Proposed	2022 EE Rates	\$397.51	\$418.36	\$439.23	\$464.54	\$483.91	\$510.71	\$537.52	\$556.88	\$582.14	\$603.01	\$625.37		Proposed	<u>2022 ÉE Rates</u>	\$296.45	\$311.92	\$327.40	\$346.16	\$360.56	\$380.44	\$400.32	\$414.70	\$433.47	\$448.94	\$465.54	
Proposed	S	\$402.44	\$423.78	\$445.12	\$471.00	\$490.82	\$518.23	\$545.68	\$565.49	\$591.35	\$612.67	\$635.55	Income:	Proposed	S	\$300.15	\$315.98	\$331.81	\$351.01	\$365.75	\$386.08	\$406.44	\$421.16	\$440.37	\$456.18	\$473.18	
Annual		144	158	172	189	202	220	238	251	268	282	297	Residential Non-Heating Low Income:	Annual		144	158	172	189	202	220	238	251	268	282	297	

(46) (47) (48) (49) (50) (51) (52) (53) (54) (55) (56) (56) (56) (57) (58) (58) (58) (59) (60)

National Grid - RI Gas Energy Efficiency Program Plan Bill Impact Analysis with Various Levels of Consumption High Scenario - Year 3

GET	\$0.60 \$0.66 \$0.72 \$0.79 \$0.92 \$1.04 \$1.17 \$1.17	GET \$4.96 \$5.49 \$6.02 \$6.02 \$7.09 \$7.09 \$7.09 \$8.16 \$8.69 \$9.22 \$9.76
LIHEAP	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	LIHEAP \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
ue to: <u>EE</u>	\$19.26 \$21.32 \$23.44 \$25.48 \$27.53 \$29.64 \$31.73 \$33.77 \$35.81 \$37.95	EE S160.22 S177.48 S194.65 S211.92 S229.20 S2246.45 S2263.71 S280.97 S298.24 S315.42
Difference due to:	\$ \$0.00 \$ \$0.00 \$ \$0.00 \$ \$0.00 \$ \$0.00 \$ \$0.00 \$ \$0.00 \$ \$0.00	Difference due to: ISR
DAC Base DAC	\$ 80.00 \$ 80.00 \$ 80.00 \$ 80.00 \$ 80.00 \$ 80.00 \$ 80.00 \$ 80.00	DAC Base DAC 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00
GCR I	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	GCR 8.0.00 8.0.00 8.0.00 8.0.00 8.0.00 8.0.00
% Chg	1.4% 1.5% 1.5% 1.5% 1.6% 1.6% 1.6% 1.6% 1.6% 1.6% 1.6%	% Chg 1.9% 1.9% 2.0% 2.0% 2.0% 2.0% 2.0%
Difference	\$19.86 \$21.98 \$24.16 \$26.27 \$28.38 \$30.56 \$32.71 \$34.81 \$36.92 \$39.12 \$341.24	Difference \$165.18 \$182.97 \$200.67 \$218.47 \$236.29 \$254.07 \$271.87 \$289.66 \$307.46 \$325.18
Proposed 2022 EE Rate <u>s</u>	\$1,387.61 \$1,502.12 \$1,619.27 \$1,733.87 \$1,847.20 \$1,962.99 \$2,078.84 \$2,193.41 \$2,193.41 \$2,306.75 \$2,423.86	Proposed 2022 EE Rates \$8,704.73 \$9,527.13 \$10,346.81 \$11,171.16 \$11,994.53 \$12,816.89 \$13,639.22 \$14,463.59 \$15,286.99 \$16,106.65
	\$1,407.47 \$1,524.10 \$1,643.43 \$1,760.14 \$1,875.59 \$2,111.55 \$2,228.22 \$2,343.67 \$2,462.98 \$2,580.91	Proposed \$8,869.90 \$9,710.10 \$10,547.48 \$11,389.63 \$12,230.82 \$13,070.96 \$13,911.08 \$14,753.25 \$15,594.46 \$16,431.83
Annual Proposed Consumption (Therms) 2023 EE Rates	830 919 1,010 1,099 1,187 1,277 1,456 1,544 1,635 1,725	Annual Consumption (Therms) 2 6,907 7,650 8,391 9,136 9,136 11,366 12,111 12,855 13,596 14,340
(61) (62) (63)	(65) (65) (66) (67) (68) (68) (68) (69) (70) (71) (73) (73)	(76) (77) (77) (78) (88) (82) (83) (83) (84) (83) (84) (85) (86) (86) (86) (87) (88) (87) (88) (87) (88) (87) (87

National Grid - RI Gas Energy Efficiency Program Plan Bill Impact Analysis with Various Levels of Consumption High Scenario - Year 3

C & I LLF Large:

	<u>GET</u>	\$26.97	\$29.87	\$32.78	\$35.68	\$38.59	\$41.49	\$44.40	\$47.30	\$50.20	\$53.11	\$56.01			<u>GET</u>	\$30.10	\$33.34	\$36.59	\$39.83	\$43.07	\$46.31	\$49.55	\$52.80	\$56.04	\$59.28	\$62.52
	LIHEAP	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			LIHEAP	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
ue to:	EE	\$872.00	\$965.91	\$1,059.88	\$1,153.75	\$1,247.63	\$1,341.54	\$1,435.44	\$1,529.35	\$1,623.23	\$1,717.18	\$1,811.07		ue to:	田田	\$973.39	\$1,078.12	\$1,182.99	\$1,287.76	\$1,392.64	\$1,497.47	\$1,602.21	\$1,707.11	\$1,811.89	\$1,916.76	\$2,021.60
Difference due to:	ISR	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		Difference due to:	ISR	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	80.00	\$0.00	80.00
DAC	Base DAC	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		DAC	Base DAC	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	80.00	80.00	80.00
l	GCR	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	80.00			GCR	\$0.00	80.00	80.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	80.00	\$0.00	80.00
1	% Chg	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.1%	2.1%	2.1%	2.1%			% Chg	2.4%	2.4%	2.4%	2.4%	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%
:	Difference	\$898.97	\$995.78	\$1,092.66	\$1,189.43	\$1,286.22	\$1,383.03	\$1,479.84	\$1,576.65	\$1,673.43	\$1,770.29	\$1,867.08			Difference	\$1,003.49	\$1,111.46	\$1,219.58	\$1,327.59	\$1,435.71	\$1,543.78	\$1,651.76	\$1,759.91	\$1,867.93	\$1,976.04	\$2,084.12
Proposed	2022 EE Rates	\$44,912.15	\$49,480.04	\$54,050.57	\$58,620.16	\$63,187.02	\$67,756.58	\$72,326.13	\$76,894.02	\$81,462.58	\$86,033.11	\$6009,06\$		Proposed	2022 EE Rates	\$41,599.66	\$45,809.16	\$50,022.90	\$54,233.22	\$58,447.79	\$62,658.93	\$66,870.16	\$71,084.63	\$75,294.97	\$79,508.70	\$83,721.61
		\$45,811.12	\$50,475.83	\$55,143.23	\$59,809.60	\$64,473.24	\$69,139.61	\$73,805.97	\$78,470.67	\$83,136.01	\$87,803.40	\$92,468.06		Proposed	S	\$42,603.16	\$46,920.62	\$51,242.48	\$55,560.81	\$59,883.50	\$64,202.72	\$68,521.92	\$72,844.54	\$77,162.90	\$81,484.74	\$85,805.74
Annual	Consumption (Therms) 2023 EE Rates	37,587	41,634	45,683	49,731	53,777	57,825	61,873	65,920	296,69	74,016	78,063	C & I HLF Large:	Annual		41,956	46,471	50,991	55,507	60,028	64,545	69,062	73,583	78,099	82,619	87,137
(91)	(93) (94)	(65)	(96)	(67)	(86)	(66)	(100)	(101)	(102)	(103)	(104)	(105)		(106)	(108) (109)	(110)	(111)	(112)	(113)	(114)	(115)	(116)	(117)	(118)	(119)	(120)

National Grid - RI Gas Energy Efficiency Program Plan Bill Impact Analysis with Various Levels of Consumption High Scenario - Year 3

C & I LLF Extra-Large:

GET	\$167.78 \$185.85 \$203.92 \$221.99 \$240.06 \$258.13 \$276.20 \$294.26 \$312.33 \$330.40	GET 8349 10	\$386.69 \$44.29 \$401.88 \$499.48 \$537.07 \$574.67 \$649.86 \$687.45
LIHEAP	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	LIHEAP	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
ue to:	\$5,424.96 \$6,009.24 \$6,593.37 \$7,177.66 \$7,771.83 \$8,346.10 \$8,334.10 \$8,330.34 \$9,514.55 \$10,098.75 \$10,682.94	ue to: <u>EE</u> 811 287 45	\$12,505 \$13,718.60 \$13,718.60 \$16,149.73 \$17,365.31 \$18,580.94 \$19,796.45 \$21,012.06 \$22,227.64
Difference due to: SR E	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	Diff IS	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
DAC Base DAC	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	DAC Base DAC \$0.00	8 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
GCR	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	GCR	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
% Chg	44444444444444444444444444444444444444	% Chg 3.1%	
Difference	\$5,592.74 \$6,195.09 \$6,797.29 \$7,399.65 \$8,001.89 \$8,604.23 \$9,206.54 \$9,808.81 \$10,411.08 \$11,013.34	Difference	\$12,889.71 \$14,142.89 \$15,396.14 \$16,649.21 \$17,902.38 \$19,155.61 \$20,408.71 \$21,661.92 \$22,915.09
Proposed 2022 EE Rates	\$209,764.13 \$231,688.21 \$253,607.73 \$275,531.71 \$297,453.52 \$319,376.85 \$341,300.15 \$363,222.69 \$385,145.96 \$407,065.47	Proposed 2022 EE Rates \$379 558 84	\$419,768.01 \$459,768.01 \$459,976.38 \$500,186.84 \$540,391.78 \$580,601.61 \$620,811.49 \$61,016.30 \$701,226.84 \$71,435.21
Proposed 2023 EE Rates	\$215,356.88 \$237,883.31 \$260,405.02 \$282,931.36 \$305,455.40 \$327,981.08 \$350,506.68 \$373,031.50 \$395,557.05 \$418,078.81	Proposed 2023 EE Rates 3 8391 195 39	\$432,657.72 \$474,119.27 \$515,582.99 \$557,040.98 \$598,503.99 \$639,967.10 \$681,425.01 \$722,888.76 \$764,350.31
Annual Consumption (Therms) 2	233,835 259,019 284,197 309,381 334,562 359,745 384,928 410,110 435,293 460,471	C& I HLF Extra-Large: Annual Consumption (Therms) 2 486 528	538,924 591,320 643,718 696,109 748,506 800,903 853,294 905,692 958,088 1,010,485
(121) (122) (123)	(124) (125) (126) (127) (130) (131) (133) (134) (134)	(136) (137) (138) (139)	(143) (144) (145) (146) (148) (148) (150)

PUC 1-38

Request:

Referring to Attachment 1, Table 2, please provide a short (i.e., about one sentence) description of each measure, including a description of how it saves electricity relative to a baseline technology. Please note if the measure only saves delivered fuels.

Response:

Based on the wording of this request, the Company interpreted this question to mean "Referring to Attachment 1, Table 3" as opposed to Table 2.

Please see Attachment PUC 1-38 for the requested information.

		Electric Programs	
Program	Measure	Measure Description	Only Saves Delivered F
	Aerator - Electric	The installation of a low flow faucet aerator. Savings are acheived by replacing an existing high flow rate faucet aerator with a low flow faucet aerator.	No
	Aerator - Oil	The installation of a low flow faucet aerator. Savings are acheived by replacing an existing high flow rate faucet aerator with a low flow faucet aerator.	Yes
	Aerator - Others	The installation of a low flow faucet aerator. Savings are acheived by replacing an existing high flow rate faucet aerator with a low flow faucet aerator.	Yes
	Air Sealing Kit - Oil	The installation of recessed lighting cans that provide air sealing benefits. Savings are achieved by replacing leaky recessed lighting cans in the participating household.	Yes
	Air Sealing Kit - Electric	The installation of recessed lighting cans that provide air sealing benefits. Savings are achieved by replacing leaky recessed lighting cans in the participating household.	No
	Air Sealing Kit - Others	The installation of recessed lighting cans that provide air sealing benefits. Savings are achieved by replacing leaky recessed lighting cans in the participating household.	Yes
	LED Bulbs	The installation of ENERGY STAR rated Light-Emitting Diode (LED) screw-in bulbs. Savings are achieved by replacing existing inefficien incandescent and halogen bulbs.	No
	LED Bulbs (EISA Exempt)	The installation of ENERGY STAR rated Light-Emitting Diode (LED) specialty screw-in bulbs. Savings are achieved by replacing existing inefficien incandescent and halogen bulbs.	No
	LED Bulbs Reflectors	The installation of ENERGY STAR rated Light-Emitting Diode (LED) reflector bulb. Savings are achieved by replacing existing inefficient incandesce and halogen bulbs.	No
	LED Fixture	The installation of ENERGY STAR rated Light-Emitting Diode (LED) fixtures. Savings are achieved by replacing existing inefficient fixtures.	No
	LED Outdoor Fixture	The installation of ENERGY STAR rated Light-Emitting Diode (LED) fixtures. Savings are achieved by replacing existing inefficient fixtures.	No
	Pre-Wx	This captures non-energy related measures such as asbestos removal or remove knob and tube wiring to make a home ready for weatherization. There i no savings claimed for this measure.	No
	Refrigerator Brush	The refrigerator brush for cleaning refrigerator coil to help refrigerator operate more efficiently. The baseline is uncleaned refrigerator coil.	No
	Showerhead - Electric	The installation of a low flow showerhead or a low flow showerhead with a control that limits flow once the water is heated. Savings are based on electric heating.	No
	Showerhead - Oil	The installation of a low flow showerhead or a low flow showerhead with a control that limits flow once the water is heated. Savings are based on oi heating. The installation of a low flow showerhead or a low flow showerhead with a control that limits flow once the water is heated. Savings are based on	Yes
nergyWise Single Family	Showerhead - Others	Ine installation of a low flow showerhead or a low flow showerhead with a control that limits flow once the water is neated. Savings are based on propane heating. A smart strip use current sensors and switching devices which turn off plug load when devices are not in use. Savings are achieved by eliminating standless that the savings are achieved by eliminating standless.	Yes
	Smart Strip	power draw. Installation of a programmable thermostat, which gives the ability to adjust electric heating or air-conditioning operating times according to a press	No
	Programmable Thermostat - Electric	schedule. Baseline is a without a programable thermostats installed.	No
	Programmable Thermostat - Oil	Installation of a programmable thermostat, which gives the ability to adjust oil heating or air-conditioning operating times according to a preset schedule Installation of a programmable thermostat, which gives the ability to adjust propane heating or air-conditioning operating times according to a press	No
	Programmable Thermostat - Other	schedule.	No
	WiFi Thermostat - Electric	The installation of Wi-Fi thermostat with the ability to adjust electric heating or air-conditioning operating times according to a pre-set schedule to meet occupancy needs and also be able to remotely adjust schedules when not at home. Baseline is a blend of manual thermostats and programable thermostat	No
	WiFi Thermostat - Oil	The installation of Wi-Fi thermostat with the ability to adjust oil heating or air-conditioning operating times according to a pre-set schedule to meet occupancy needs and also be able to remotely adjust schedules when not at home. Baseline is a blend of manual thermostats and programable thermostat	No.
	WiFi Thermostat - Others	The installation of Wi-Fi thermostat with the ability to adjust propane heating or air-conditioning operating times according to a pre-set schedule to mee occupancy needs and also be able to remotely adjust schedules when not at home. Baseline is a blend of manual thermostats and programable thermostat	t televio
	Wx - Oil	The installation of weatherization measures in oil heated homes. Savings are acheived by applying installation upgrades, air sealing to minimize inflitration of outside air through cracks and leaks in the existing home shell, and duct sealing of leaky HVAC ducts.	
	Wx Elec - Elec Heat Only	The installation of weatherization measures in electric heated homes. Savings are acheived by applying insulation upgrades or air sealing to minimiz inflitration of outside air through cracks and leaks in the existing home shell.	No
	Pipe Insulation - Electric	The installation of domestic hot water pipe wrap to reduce electric water heating. Savings are achieved by applying insulation in existing equipmen without pipe insulation.	No
	Pipe Insulation - Oil	The installation of domestic hot water pipe wrap to reduce oil water heating. Savings are achieved by applying insulation in existing equipment without pipe insulation. The installation of domestic hot water pipe wrap to reduce propane water heating. Savings are achieved by applying insulation in existing equipment	Yes
	Pipe Insulation - Others	without pipe insulation.	Yes
	Participants Heat Loans	This measure tracks program participation and does not have an associated energy savings value. This is not a measure but is the Heat Loan budget for this program and included in the Rebates and Other Incentives budget for this program listed it table E-2.	No N/A
	Program Planning & Administration	This is not a measure but is the Program Planning & Administration budget listed for the program in table E-2.	N/A N/A
	Marketing Sales, Technical Assistance & Training	This is not a measure but is the Marketing budget listed for the program in table E-2. This is not a measure but is the Sales, Technical Assistance & Traning budget listed for the program in table E-2.	N/A N/A
	Evaluation & Market Research	This is not a measure but is the Evaluation & Market Research budget listed for the program in table E-2.	N/A

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	Measure	Measure Description	Only Saves Delivered Fuels
	Aerator	The installation of a low flow faucet aerator. Savings are acheived by replacing an existing high flow rate faucet aerator with a low flow faucet aerator.	No
	Aerator Oil	The installation of a low flow faucet aerator. Savings are acheived by replacing an existing high flow rate faucet aerator with a low flow faucet aerator.	Yes
		Thermal shell air leaks are sealed through strategic use and location of air-tight materials. The baseline efficiency case is the existing building before the	
	Air Sealing Electric With AC	air sealing measure is implemented. The baseline building is characterized by the existing air changes per hour (ACHPRE).	No
	Air Sealing Oil	Thermal shell air leaks are sealed through strategic use and location of air-tight materials. The baseline efficiency case is the existing building before the air sealing measure is implemented. The baseline building is characterized by the existing air changes per hour (ACHPRE).	Yes
	Common Exterior LED Fixture	The installation of ENERGY STAR rated Light-Emitting Diode (LED) fixtures in outdoor common-areas. Savings are achieved by replacing existing inefficient fixtures.	No.
	Common Exterior Reflector	The installation of ENERGY STAR rated Light-Emitting Diode (LED) reflector bulb in outdoor common-areas. Savings are achieved by replacing	N-
	Common Interior EISA Exempt	existing inefficient incandescent and halogen bulbs. The installation of ENERGY STAR rated Light-Emitting Diode (LED) screw-in bulbs in indoor common areas. Savings are achieved by replacing existing inefficient incandescent and halogen bulbs.	140
	·	The installation of ENERGY STAR rated Light-Emitting Diode (LED) fixtures in indoor common-areas. Savings are achieved by replacing existing	No
	Common Interior LED Fixture	inefficient fixtures. The installation of ENERGY STAR rated Light-Emitting Diode (LED) reflector bulb in indoor common-areas. Savings are achieved by replacing	No
	Common Interior Reflector	existing inefficient incandescent and halogen bulbs. The installation of ENERGY STAR rated Light-Emitting Diode (LED) fixtures in outdoor dwelling units. Savings are achieved by replacing existing	No
	Dwelling Exterior LED Fixture	inefficient fixtures. The installation of ENERGY STAR rated Light-Emitting Diode (LED) reflector bulb in outdoor dwelling-units. Savings are achieved by replacing	No
	Dwelling Exterior Reflector	existing inefficient incandescent and halogen bulbs. The installation of ENERGY STAR rated Light-Emitting Diode (LED) screw-in bulbs in indoor dwelling units. Savings are achieved by replacing	No
	Dwelling Interior EISA Exempt	existing inefficient incandescent and halogen bulbs. The installation of ENERGY STAR rated Light-Emitting Diode (LED) reflector bulb in indoor dwelling units. Savings are achieved by replacing	No
	Dwelling Interior Reflector	existing inefficient incandescent and halogen bulbs. Shell insulation upgrades applied in existing facilities including improved insulation in attics, basements and sidewalls. The baseline efficiency case is ar	No
	Insulation Electric With AC	existing home shell measures. Shell insulation upgrades applied in existing facilities including improved insulation in attics, basements and sidewalls. The baseline efficiency case is an	No
	Insulation Oil	existing home shell measures. The installation of domestic hot water pipe wrap to reduce electric water heating. Savings are achieved by applying insulation in existing equipmen	Yes
	Pipe Wrap DHW Elec	without pipe insulation.	No
EnergyWise Multifamily	Refrigerator Rebate	The installation of a high efficiency refrigerator. Savings are achieved by replacing existing inefficient refrigerator with a new refrigerator.	No
	Chamakaad Ela	The installation of a low flow throughout with a control that limits flow countries bearing Control and an about it bearing	
	Showerhead Elec Showerhead Oil	The installation of a low flow showerhead with a control that limits flow once the water is heated. Savings are based on electric heating. The installation of a low flow showerhead with a control that limits flow once the water is heated. Savings are based on oil heating.	Yes
	Smart Strip	A smart strip use current sensors and switching devices which turn off plug load when devices are not in use. Savings are achieved by eliminating standb power draw.	No
	Thermostat Electric With AC	Installation of a programmable thermostat, which gives the ability to adjust electric heating or air-conditioning operating times according to a press schedule. The baseline is without programable thermostats installed.	No
	Thermostat Oil	Installation of a programmable thermostat, which gives the ability to adjust oil heating or air-conditioning operating times according to a preset schedule. The baseline is without programable thermostats installed.	Yes
		The high efficiency measures is a thermostatic shutoff valve combined with a low flow showerhead. The baseline is a federal code showerhead., Saving is realized due to the combination of a reduction in hot water usage associated with the shut valve associated with a person waiting for the shower temp t	
	TSV Showerhead Elec	heat up and the lower flowrate associated with the low flow showerhead. The high efficiency measures is a thermostatic shutoff valve combined with a low flow showerhead. The baseline is a federal code showerhead, Saving	No
	Taylor 1 100	is realized due to the combination of a reduction in hot water usage associated with the shut valve associated with a person waiting for the shower temp t	
	TSV Showerhead Oil	heat up and the lower flowrate associatiated with the low flow showerhead. The installation of ENERGY STAR rated Light-Emitting Diode (LED) screw-in bulbs in outdoor common-areas. Savings are achieved by replacing	Yes
	Common Exterior LED Bulbs	existing inefficient incandescent and halogen bulbs. The installation of ENERGY STAR rated Light-Emitting Diode (LED) screw-in bulbs in indoor common-areas. Savings are achieved by replacing	No
	Common Interior LED Bulbs	existing inefficient incandescent and halogen bulbs. The installation of ENERGY STAR rated Light-Emitting Diode (LED) screw-in bulbs in indoor dwelling units. Savings are achieved by replacing	No
	Dwelling Interior LED Bulbs	existing inefficient incandescent and halogen bulbs. Vendors install a variety of high-efficient electric measures at multifamily facilities within common areas and dwelling units. Measures include lighting	No
	Custom	HVAC, water heating, and insulation. The installation of Vending Miser controls to help reduce the energy consumption of vending machine lighting and refrigeration systems. The baselir	No
	Vending Miser	efficiency case is a standard efficiency refrigerated beverage vending machine without a control system capable of powering down lighting and refrigeration systems during periods of inactivity.	No
	Participants	This measure tracks program participation and does not have an associated energy savings value.	No
	Heat Loans	This is not a measure but is the Heat Loan budget for this program and included in the Rebates and Other Incentives budget for this program listed it table E-2.	N/A
	Program Planning & Administration Marketing		N/A N/A
	Sales, Technical Assistance & Training	This is not a measure but is the Sales, Technical Assistance & Traning budget listed for the program in table E-2.	N/A
	Evaluation & Market Research	Energy efficiency code trainings and advocacy work to improve energy efficiency of buildings and equipment within Rhode Island. Savings are claime	N/A
	Codes and Standards	by increasing the percentage of code compliant residential homes. Electric savings resulting from Energy Star Homes Code Plus projects which have a custom mix of measures and improvements. Code Plus projects are	
		Electric savings resulting from Energy Star Homes Code Flus projects which have a custom mix of measures and improvements. Code Flus projects are	NO
	CP Home - Heating	positioned below Tier 1 Energy Star Homes and above the current URDH. This measure saves energy by increasing the efficiency of the heating system when compared to the base case of the UDRH.	No
	CP Home - Heating	positioned below Tier 1 Energy Star Homes and above the current URDH. This measure saves energy by increasing the efficiency of the heating system when compared to the base case of the UDRH. Electric savings resulting from Energy Star Homes Code Plus projects which have a custom mix of measures and improvements. Code Plus projects are	No
	CP Home - Heating CP Home - Cooling	positioned below Tier 1 Energy Star Homes and above the current URDH. This measure saves energy by increasing the efficiency of the heating system when compared to the base case of the UDRH. Electric savings resulting from Energy Star Homes Code Plus projects which have a custom mix of measures and improvements. Code Plus projects are positioned below Tier 1 Energy Star Homes and above the current URDH. This measure saves energy by increasing the efficiency of the cooling system when compared to the base case of the UDRH.	No No
	CP Home - Cooling	positioned below Tier 1 Energy Star Homes and above the current URDH. This measure saves energy by increasing the efficiency of the heating system when compared to the base case of the UDRH. Electric savings resulting from Energy Star Homes Code Plus projects which have a custom mix of measures and improvements. Code Plus projects are positioned below Tier 1 Energy Star Homes and above the current URDH. This measure saves energy by increasing the efficiency of the cooling system when compared to the base case of the UDRH. Electric savings resulting from Energy Star Homes Code Plus projects which have a custom mix of measures and improvements. Code Plus projects are positioned below Tier 1 Energy Star Homes and above the current URDH. This measure saves energy by increasing the efficiency of the water heating	No No
	CP Home - Cooling CP Home - Water Heating	positioned below Tier I Energy Star Homes and above the current URDH. This measure saves energy by increasing the efficiency of the heating system when compared to the base case of the UDRH. Electric savings resulting from Energy Star Homes Code Plus projects which have a custom mix of measures and improvements. Code Plus projects are positioned below Tier I Energy Star Homes and down the current URDH. This measure saves energy by increasing the efficiency of the cooling system when compared to the base case of the UDRH. Electric savings resulting from Energy Star Homes Code Plus projects which have a custom mix of measures and improvements. Code Plus projects are positioned below Tier I Energy Star Homes and above the current URDH. This measure saves energy by increasing the efficiency of the water heating system when compared to the base case of the UDRH. The installation of an Energy Star Clotheswasher in a Residential New Construction home. Savings are achieved by replacing a standard/inefficier	No No
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	CP Home - Cooling CP Home - Water Heating Clothes Washer Dishwasher LED Bulbs Renovation Rehab CP Refrigerator rebate Renovation Rehab Tier 1 Home Renovation Rehab Tier 2 Home Renovation Rehab Tier 3 Home Showerhead Tier 1 Home - Heating Tier 1 Home - Cooling Tier 1 Home - Water Heating Tier 2 Home - Heating Tier 2 Home - Heating Tier 2 Home - Water Heating	positioned below Tier I Energy Star Homes and above the current URDH. This measure saves energy by increasing the efficiency of the heating system when compared to the base case of the UDBH. Electric savings resulting from Energy Star Homes and above the current URDH. This measure saves energy by increasing the efficiency of the cooling system when compared to the base case of the UDBH. Electric savings resulting from Energy Star Homes Code Plus projects which have a custom mix of measures and improvements. Code Plus projects are positioned below Tier I Energy Star Homes and above the current URDH. This measure saves energy by increasing the efficiency of the water heating system when compared to the base case of the UDBH. The installation of an Energy Star Homes and above the current URDH. This measure saves energy by increasing the efficiency of the water heating system when compared to the base case of the UDBH. The installation of an Energy Star Homes and above the current URDH. This measure saves energy by increasing the efficiency of the water heating system when compared to the base case of the UDBH. The installation of an Energy Star Dishwasher in a Residential New Construction home. Savings are achieved by replacing a standard/inefficier dishwasher. The installation of ENERGY STAR rated Light-Emitting Diode (LED) screw-in bulbs. Savings are achieved by replacing existing inefficient incandescent and hologen bulbs. Electric savings resulting from Renovation Rehab Code Plus projects which have a custom mix of measures and improvements. Renovation Rehab Cod Plus projects when compared to the base case of the UDBH. The installation of high efficiency refrigerator. Savings are achieved by replacing existing inefficient refrigerator with a new refrigerator. Electric savings resulting from Renovation Rehab projects which includes a custom mix of replacement measures. This measure saves energy by increasing the efficiency when compared to the base case of the UDBH. Electric savings resulting from Ene	No No No No No No No No No No No No No N
	CP Home - Cooling CP Home - Water Heating Clothes Washer Dishwasher LED Bulbs Renovation Rehab CP Refrigerator rebate Renovation Rehab Tier 1 Home Renovation Rehab Tier 2 Home Renovation Rehab Tier 3 Home Showerhead Tier 1 Home - Heating Tier 1 Home - Cooling Tier 1 Home - Water Heating Tier 2 Home - Heating Tier 2 Home - Heating Tier 2 Home - Cooling	positioned below Tier I Energy Star Homes and above the current URDH. This measure saves energy by increasing the efficiency of the heating system when compared to the base case of the UDBH. Electric savings resulting from Energy Star Homes and above the current URDH. This measure saves energy by increasing the efficiency of the cooling system when compared to the base case of the UDBH. Electric savings resulting from Energy Star Homes Code Plus projects which have a custom mix of measures and improvements. Code Plus projects are positioned below Tier I Energy Star Homes and above the current URDH. This measure saves energy by increasing the efficiency of the water heating system when compared to the base case of the UDBH. The installation of an Energy Star Homes and above the current URDH. This measure saves energy by increasing the efficiency of the water heating system when compared to the base case of the UDBH. The installation of an Energy Star Homes and above the current URDH. This measure saves energy by increasing the efficiency of the water heating system when compared to the base case of the UDBH. The installation of an Energy Star Dishwasher in a Residential New Construction home. Savings are achieved by replacing a standard/inefficier dishwasher. The installation of ENERGY STAR rated Light-Emitting Diode (LED) screw-in bulbs. Savings are achieved by replacing existing inefficient incandsecent and halogen bulbs. Electric savings resulting from Renovation Rehab Code Plus projects which have a custom mix of measures and improvements. Renovation Rehab Code Plus projects and an expensioned below Tier 1 Renovation Rehab projects shirt hindules a custom mix of measures and improvements. Renovation Rehab Cod Plus projects which includes a custom mix of measures and improvements. Renovation Rehab Cod Plus projects which includes a custom mix of replacement measures. This measure saves energy by increasing the efficiency when compared to the base case of the UDBH. The installation of high efficiency r	No No No No No No No No No

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Program	Measure	Measure Description	Only Saves Delivered Fuels
		Electric savings resulting from Energy Star Homes Tier 3 projects which have a custom mix of measures and improvements. Tier 3 projects an	
		positioned below Tier 4 Energy Star Homes and above the current URDH. This measure saves energy by increasing the efficiency of the water heating	
	Tier 3 Home - Water Heating	system when compared to the base case of the UDRH.	No
		Electric savings resulting from Energy Star Homes projects which includes a custom mix of measures and improvements. This measure saves energy by	
	Tier 4 Home	increasing the efficiency when compared to the base case of the UDRH.	No
		Electric savings resulting from converting abandoned mills and factory buildings into multifamily residences. Adaptive Reuse projects include a custor	
	Adaptive Reuse	mix of measures and improvements.	No
	Participants	This measure tracks program participation and does not have an associated energy savings value.	No
	Program Planning & Administration	This is not a measure but is the Program Planning & Administration budget listed for the program in table E-2.	N/A
	Marketing	This is not a measure but is the Marketing budget listed for the program in table E-2.	N/A
	Sales, Technical Assistance & Training	This is not a measure but is the Sales, Technical Assistance & Traning budget listed for the program in table E-2.	N/A
	Evaluation & Market Research	This is not a measure but is the Evaluation & Market Research budget listed for the program in table E-2.	N/A

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Program			
Trogram	Measure	Measure Description	Only Saves Delivered Fuels
	ACQIVES	Savings are achieved by properly installing a central AC system compared to a standard installation. Check to make sure refrigerant levels are correct an adjust as needed.	N-
	ACQIVES	The purchase and installation of high efficiency central air-conditioning (CAC) unit rather than a standard CAC system. The savings is achieved throug	NO
	ACS16SEER13EER	the higher level of efficency for these units.	No
	DOWNSIZE	Reduction in system size consistent with manual J calculations for a new central AC installation.	No
	Control Heat Proper	The installation of a high efficiency rated heat pump compared to a standard heat pump. Savings achieved through higher level of efficiencies both for heating and cooling.	No
	Central Heat Pump	The installation of a more efficient rated Ductless MiniSplit system compared to a standard mini-split heat pump. Savings achieved through higher lew	No
	Mini-Split Heat Pump	of efficiencies both for heating and cooling.	No
	ECMB	Heating hot water circulation retrofit projects replacing the existing hot water circulation systems with ECM pumps and zone valves. ECM pumps wil	
	ECM Pumps	work more efficiency than standard circulator pumps. Savings are achieved by properly installing a mini-split heat pump compared to a standard installation. Check to make sure refrigerant levels are correct	No
	HP Mini-split QIV	and adjust as needed.	No
	•	Savings are achieved by properly installing a central ducted heat pump compared to a standard installation. Check to make sure refrigerant levels ar	
	HPQIVES	correct and adjust as needed.	No
	HPTUNE	Savings are achieved by tuning up an existing heat pump to bring the existing equipment back up to its rated efficiency. This involved changing filters at checking the refrigerant flow to make sure it is still at the proper levels.	No.
	III TONE		110
ENERGY STAR®		Installation of Wi-Fi thermostat with the ability to adjust heating or air-conditioning operating times according to a pre-set schedule to meet occupancy	
HVAC		needs and minimize redundant HVAC operation and also be able to remotely adjust schedules when not at home. Baseline is a blend of manual	
	WiFi Thermostat - cooling and oil heating	thermostats and programable thermostats. Measure has both oil savings for the heating season and electric savings for cooling season	No
		Installation of Wi-Fi thermostat with the ability to adjust heating or air-conditioning operating times according to a pre-set schedule to meet occupancy needs and minimize redundant HVAC operation and also be able to remotely adjust schedules when not at home. Baseline is a blend of manual	
	WiFi Thermostat - cooling and gas heating	thermostats and programable thermostats. Measure has both gas savings for the heating season and electric savings for cooling season.	No
		Installation of a heat pump water heater (HPWH) instead of a standard electric resistance water heater. Savings achieved through the higher efficiency for	
	Water Heater, Heat Pump <55 gallon	heat pumps. All units must be smaller than 55 gallons.	No
	Water Heater, Heat Pump >55 gallon, UEF 2.70	Installation of a high efficiency heat pump water heater (HPWH) instead of a standard heat pump water heater. Savings achieved through the highe efficiency of the incentivized heat pump. All units must be greater than or equal to 55 gallons.	No
	water fleater, fleat rump >55 ganon, OEF 2.70	The installation of high efficiency mini-split heat pumps fully replacing a electric resistance heaters. Savings are achieved through the higher efficiency of	100
	Ductless Mini-Split Replacing Electric Resistance	the mini-splitl heat pumps when compared to the electric resistance heating.	No
		This is not a measure but is the HVAC Financing for this program and is included in the Rebates and Other Incentives budget for this program listed in the Rebates and Other Incentives budget for this program listed in the Rebates and Other Incentives budget for this program listed in the Rebates and Other Incentives budget for this program listed in the Rebates and Other Incentives budget for this program listed in the Rebates and Other Incentives budget for this program listed in the Rebates and Other Incentives budget for this program listed in the Rebates and Other Incentives budget for this program listed in the Rebates and Other Incentives budget for this program listed in the Rebates and Other Incentives budget for this program listed in the Rebates and Other Incentives budget for this program listed in the Rebates and Other Incentives budget for this program listed in the Rebates and Other Incentives budget for this program listed in the Rebates and Other Incentives budget for this program list of the Rebates and Other Incentives budget for the Rebates and Other Incentives budget for this program list of the Rebates and Other Incentives budget for this program list of the Rebates and Other Incentives budget for this program list of the Rebates and Other Incentives budget for the Rebates and Other Incentives budget for the Rebates and Other Incentives budget for the Rebates and Other Incentives budget for the Rebates and Other Incentives budget for the Rebates and Other Incentives budget for the Rebates and Other Incentives budget for the Rebates and Other Incentives budget for the Rebates and Other Incentives budget for the Rebates and Other Incentives budget for the Rebates and Other Incentives budget for the Rebates and Other Incentives budget for the Rebates and Other Incentives budget for the Rebates and Other Incentives budget for the Rebates and Other Incentives budget for the Rebates and Other Incentives budget for the Rebates and Other Incentives budget for the Rebates and Other Incentives budget	
	HVAC Financing	table E-2.	N/A
	Program Planning & Administration Marketing	This is not a measure but is the Program Planning & Administration budget listed for the program in table E-2. This is not a measure but is the Marketing budget listed for the program in table E-2.	N/A
	Sales, Technical Assistance & Training	This is not a measure but is the Marketing budget listed for the program in table E-2. This is not a measure but is the Sales, Technical Assistance & Training budget listed for the program in table E-2.	N/A N/A
	Evaluation & Market Research	This is not a measure but is the Saies, Technical Assistance & Training budget listed for the program in table E-2. This is not a measure but is the Evaluation & Market Research budget listed for the program in table E-2.	N/A N/A
	Dehumidifier Rebate	The Installation of high efficiency dehumidifiers compared to a standard efficiency dehumidifier.	N/A No
	Dehumidifier Recycling	Recycling and/or removal of am old dehumidifier. Savings are based on the federal standard from approximatly 8 years ago.	No
	Energy Star Dryer	Installation of an Energy Star dryer compared to a standard efficiency dryer	No
	Freezer Recycling	The retirement and recycling of old, inefficient freezers and no replacement.	No
		A showerhead adapter is attached to your existing showerhead. When the shower is initially turned on the Ladybug device monitors the wate	
	I II El C	temperature. When the water temperature reaches bathing temperature the conservation mode is activated and the device triggers a trickle. Savings are	
	Ladybug Electric	based on electric water heating. A showerhead adapter is attached to your existing showerhead. When the shower is initially turned on the Ladybug device monitors the wate	No
		temperature. When the water temperature reaches bathing temperature the conservation mode is activated and the device triggers a trickle. Savings are	
	Ladybug Oil	based on oil water heating.	Yes
		A showerhead adapter is attached to your existing showerhead. When the shower is initially turned on the Ladybug device monitors the wate temperature. When the water temperature reaches bathing temperature the conservation mode is activated and the device triggers a trickle. Savings are	
	Ladybug Other	based on propane water heating.	Yes
	amayong own	The installation of a variable speed drive pool pump. Operating a pool pump for a longer period of time at a lower wattage can move the same amount of	1
	Pool Pump - variable	water using significantly less energy.	No
ENERGY STAR®	Refrigerator Recycling	The retirement and recycling of an old inefficient refrigerator. Savings are a weighted between primary and secondary recycled units.	No
Products	Roadrunner II Electric	A showerhead with a control that limits flow once water is heated. Savings are based on electric water heating.	No
Troducto	Roadrunner Other	A showerhead with a control that limits flow once water is heated. Savings are based on propane water heating.	Yes
	Room Air Cleaners	Installation of an Energy Star room air cleaner compared to a standard efficiency room air cleaner.	No
	Smart Strip	Switches off plug load using current sensors and switching devices which turn off plug load when electrical current drops below threshold low levels.	No
	Tier 2 APS	Shuts devices off after it no longer senses activity from its infrared controls.	No
		The installation of ENERGY STAR® qualified room air conditioners. ENERGY STAR® qualified air conditioners are typically 10% more efficient that	
	Room Air Conditioners	models meeting federal standards.	No
			140
	Storm Windows	The installation of Low E storm windows over existing windows. Savings are based on gas heating.	No
	Storm Windows Storm Windows Electric	The installation of Low E storm windows over existing windows. Savings are based on gas heating. The installation of Low E storm windows over existing windows. Savings are based on electric heating.	No
	Storm Windows Storm Windows Electric Storm Windows Others	The installation of Low E storm windows over existing windows. Savings are based on gas heating. The installation of Low E storm windows over existing windows. Savings are based on electric heating. The installation of Low E storm windows over existing windows. Savings are based on oil heating.	No No
	Storm Windows Storm Windows Electric Storm Windows Others Tier 2 APS OS	The installation of Low E storm windows over existing windows. Savings are based on gas heating. The installation of Low E storm windows over existing windows. Savings are based on electric heating. The installation of Low E storm windows over existing windows. Savings are based on oil heating. Shuts devices off after it no longer senses activity from its occupancy sensor.	No No
	Storm Windows Storm Windows Electric Storm Windows Others Tier 2 APS OS Program Planning & Administration	The installation of Low E storm windows over existing windows. Savings are based on gas heating. The installation of Low E storm windows over existing windows. Savings are based on electric heating. The installation of Low E storm windows over existing windows. Savings are based on oil heating. Shuts devices off after it no longer senses activity from its occupancy sensor. This is not a measure but is the Program Planning & Administration budget listed for the program in table E-2.	No No No N/A
	Storm Windows Storm Windows Electric Storm Windows Others Tier 2. APS OS Program Planning & Administration Marketing	The installation of Low E storm windows over existing windows. Savings are based on gas heating. The installation of Low E storm windows over existing windows. Savings are based on electric heating. The installation of Low E storm windows over existing windows. Savings are based on oil heating. Shuts devices off after it no longer senses activity from its occupancy sensor. This is not a measure but is the Program Planning & Administration budget listed for the program in table E-2. This is not a measure but is the Marketing budget listed for the program in table E-2.	No No No No N/A N/A
	Storm Windows Storm Windows Electric Storm Windows Others Tier 2 APS OS Program Planning & Administration Marketing Sales, Technical Assistance & Training	The installation of Low E storm windows over existing windows. Savings are based on gas heating. The installation of Low E storm windows over existing windows. Savings are based on electric heating. The installation of Low E storm windows over existing windows. Savings are based on oil heating. Shuts devices off after it no longer senses activity from its occupancy sensor. This is not a measure but is the Program Planning & Administration budget listed for the program in table E-2. This is not a measure but is the Marketing budget listed for the program in table E-2. This is not a measure but is the Sales, Technical Assistance & Training budget listed for the program in table E-2.	No No No N/A N/A N/A
	Storm Windows Storm Windows Electric Storm Windows Others Tier 2. APS OS Program Planning & Administration Marketing	The installation of Low E storm windows over existing windows. Savings are based on gas heating. The installation of Low E storm windows over existing windows. Savings are based on electric heating. The installation of Low E storm windows over existing windows. Savings are based on oil heating. Shuts devices off after it no longer senses activity from its occupancy sensor. This is not a measure but is the Pouram Planning & Administration budget listed for the program in table E-2. This is not a measure but is the Marketing budget listed for the program in table E-2. This is not a measure but is the Sales, Technical Assistance & Training budget listed for the program in table E-2. This is not a measure but is the Sales, Technical Assistance & Training budget listed for the program in table E-2.	No No No No N/A N/A
	Storm Windows Storm Windows Electric Storm Windows Others Tier 2 APS OS Program Planning & Administration Marketing Sales, Technical Assistance & Training	The installation of Low E storm windows over existing windows. Savings are based on gas heating. The installation of Low E storm windows over existing windows. Savings are based on electric heating. The installation of Low E storm windows over existing windows. Savings are based on oll heating. Shuts devices off after it no longer senses activity from its occupancy sensor. This is not a measure but is the Pougarm Planning & Administration budget listed for the program in table E-2. This is not a measure but is the Marketing budget listed for the program in table E-1. This is not a measure but is the Sales, Technical Assistance & Trainig budget listed for the program in table E-2. This is not a measure but is the Sales, Technical Assistance of the program in table E-2. The installation of Light-Emitting Diode (LED) screw-in bulbs and fixtures. Savings are based on a baseline of a combination of incanandescent, halogs and CFL bulbs.	No No No N/A N/A N/A
	Storm Windows Storm Windows Electric Storm Windows Others Tier 2 APS OS Program Planning & Administration Marketing Sales, Technical Assistance & Training Evaluation & Market Research LED Bulb	The installation of Low E storm windows over existing windows. Savings are based on gas heating. The installation of Low E storm windows over existing windows. Savings are based on electric heating. The installation of Low E storm windows over existing windows. Savings are based on oil heating. Shuts devices off after it no longer senses activity from its occupancy sensor. This is not a measure but is the Program Planning & Administration budget listed for the program in table E-2. This is not a measure but is the Marketing budget listed for the program in table E-2. This is not a measure but is the Sales, Technical Assistance & Training budget listed for the program in table E-2. This is not a measure but is the Evaluation & Market Research budget listed for the program in table E-2. This is not a measure but is the Evaluation & Market Research budget listed for the program in table E-2. This is not a measure but is the Sales, Technical One of the Program in table E-2. This is not a measure but is the Faultanion & Market Research budget listed for the program in table E-2. This is not a measure but is the Faultanion of Market Research budget listed for the program in table E-2.	No No No No N/A N/A N/A N/A
	Storm Windows Storm Windows Electric Storm Windows Others Tier 2 APS OS Program Planning & Administration Marketing Sales, Technical Assistance & Training Evaluation & Market Research	The installation of Low E storm windows over existing windows. Savings are based on gas heating. The installation of Low E storm windows over existing windows. Savings are based on electric heating. The installation of Low E storm windows over existing windows. Savings are based on oll heating. Shuts devices off after it no longer senses activity from its occupancy sensor. This is not an accurate but is the Pourair Planning & Administration budget listed for the program in table E-2. This is not a measure but is the Marketing budget listed for the program in table E-2. This is not a measure but is the Sales, Technical Assistance & Training budget listed for the program in table E-2. This is not a measure but is the Sales, Technical Assistance & Training budget listed for the program in table E-2. This is not a measure but is the Walketing budget listed for the program in table E-2. The issallation of Light-Emitting Diode (LED) screw-in bulbs and fixtures. Savings are based on a baseline of a combination of incanandescent, halogs and CFL bulbs. The installation of Light-Emitting Diode (LED) screw-in bulbs and fixtures. Savings are based on a baseline of a combination of incanandescent, halogs and CFL bulbs.	No No No No N/A N/A N/A N/A
	Storm Windows Storm Windows Electric Storm Windows Others Tier 2 APS OS Program Planning & Administration Marketing Sales, Technical Assistance & Training Evaluation & Market Research LED Bulb	The installation of Low E storm windows over existing windows. Savings are based on gas heating. The installation of Low E storm windows over existing windows. Savings are based on electric heating. The installation of Low E storm windows over existing windows. Savings are based on oil heating. Shuts devices off after it no longer senses activity from its occupancy sensor. This is not a measure but is the Purpura Planning & Administration budget listed for the program in table E-2. This is not a measure but is the Marketing budget listed for the program in table E-2. This is not a measure but is the Sales, Technical Assistance & Training budget listed for the program in table E-2. This is not a measure but is the Sales, Technical Assistance & Training budget listed for the program in table E-2. This is not a measure but is the Sales, Technical Assistance & Training budget listed for the program in table E-2. The installation of Light-Emitting Diode (LED) screw-in bulbs and fixtures. Savings are based on a baseline of a combination of incanandescent, halogs and CFL bulbs. Specialty "refers to 3-way bulbs or candelabra based bulbs. The installation of Light-Emitting Diode (LED) screw-in bulbs and fixtures. Savings are based on a baseline of a combination of incanandescent, halogs and CFL bulbs. The installation of Light-Emitting Diode (LED) screw-in bulbs and fixtures. Savings are based on a baseline of a combination of incanandescent, halogs and CFL bulbs. Farther to LEDs sold in realizes that are located in hard to reach areas.	No No No No N/A N/A N/A N/A
	Storm Windows Storm Windows Electric Storm Windows Others Tier 2 APS OS Program Planning & Administration Marketing Sales, Technical Assistance & Training Evaluation & Market Research LED Bulb LED Bulb (Specialty) LED Bulb (Hard to Reach)	The installation of Low E storm windows over existing windows. Savings are based on gas heating. The installation of Low E storm windows over existing windows. Savings are based on electric heating. The installation of Low E storm windows over existing windows. Savings are based on oll heating. Shuts devices off after it no longer senses activity from its occupancy sensor. This is not an exame but is the Program Planning & Administration budget listed for the program in table E-2. This is not a measure but is the Marketing budget listed for the program in table E-2. This is not a measure but is the Market Research budget listed for the program in table E-2. This is not a measure but is the Evaluation & Market Research budget listed for the program in table E-2. This is not a measure but is the Evaluation & Market Research budget listed for the program in table E-2. This is not a measure but is the Evaluation & Market Research budget listed for the program in table E-2. This is not a measure but is the Evaluation & Market Research budget listed for the program in table E-2. The installation of Light-Emitting Diode (LED) serve-in bulbs and fixtures. Savings are based on a baseline of a combination of incanandescent, halogs and CFL bulbs. The installation of Light-Emitting Diode (LED) serve-in bulbs and fixtures. Savings are based on a baseline of a combination of incanandescent, halogs and CFL bulbs. Hard to Reach refers to LEDs sold in retailers that are located in hard to reach areas. The installation of Light-Emitting Diode (LED) serve-in bulbs and fixtures. Savings are based on a baseline of a combination of incanandescent, halogs and CFL bulbs. Hard to Reach refers to LEDs sold in retailers that are located in hard to reach areas.	No No No No N/A N/A N/A N/A
	Storm Windows Storm Windows Electric Storm Windows Others Tier 2 APS OS Program Planning & Administration Marketing Sales, Technical Assistance & Training Evaluation & Market Research LED Bulb LED Bulb (Specialty)	The installation of Low E storm windows over existing windows. Savings are based on gas heating. The installation of Low E storm windows over existing windows. Savings are based on electric heating. The installation of Low E storm windows over existing windows. Savings are based on oil heating. Shuts devices off after it no longer senses activity from its occupancy sensor. This is not a measure but is the Purpura Planning & Administration budget listed for the program in table E-2. This is not a measure but is the Marketing budget listed for the program in table E-2. This is not a measure but is the Sales, Technical Assistance & Training budget listed for the program in table E-2. This is not a measure but is the Sales, Technical Assistance & Training budget listed for the program in table E-2. This is not a measure but is the Sales, Technical Assistance & Training budget listed for the program in table E-2. The issallation of Light-Emitting Diode (LED) screw-in bulbs and fixtures. Savings are based on a baseline of a combination of incanandescent, halogs and CFL bulbs. Specialty "refers to "any bulbs or candelabra based bulbs." The installation of Light-Emitting Diode (LED) screw-in bulbs and fixtures. Savings are based on a baseline of a combination of incanandescent, halogs and CFL bulbs. Fand the saving save based on a baseline of a combination of incanandescent, halogs and CFL bulbs. Fand the saving save based on a baseline of a combination of incanandescent, halogs and CFL bulbs. Fand the Reach Feed's to LEDs sold in realizes that are located in hard to reach areas. The installation of Light-Emitting Diode (LED) screw-in bulbs and fixtures. Savings are based on a baseline of a combination of incanandescent, halogs and CFL bulbs. These bulbs are distributed in food parties.	No No No No N/A N/A N/A N/A
FNERGY STAR® Lighting	Storm Windows Storm Windows Electric Storm Windows Electric Storm Windows Others Tier 2 APS OS Program Planning & Administration Marketing Sales, Technical Assistance & Training Evaluation & Market Research LED Bulb LED Bulb (Specialty) LED Bulb (Hard to Reach) LED Bulb (Food Pantries)	The installation of Low E storm windows over existing windows. Savings are based on gas heating. The installation of Low E storm windows over existing windows. Savings are based on electric heating. The installation of Low E storm windows over existing windows. Savings are based on oll heating. Shuts devices off after it no longer senses activity from its occupancy sensor. This is not an exame but is the Potengram Planning & Administration budget listed for the program in table E-2. This is not a measure but is the Marketing budget listed for the program in table E-2. This is not a measure but is the Market Research budget listed for the program in table E-2. This is not a measure but is the Evaluation & Market Research budget listed for the program in table E-2. This is not a measure but is the Evaluation & Market Research budget listed for the program in table E-2. This is not a measure but is the Evaluation & Market Research budget listed for the program in table E-2. This is not a measure but is the Evaluation & Market Research budget listed for the program in table E-2. The installation of Light-Emitting Diode (LED) serves—in bulbs and fixtures. Savings are based on a baseline of a combination of incanandescent, halogs and CFL bulbs. The installation of Light-Emitting Diode (LED) serves—in bulbs and fixtures. Savings are based on a baseline of a combination of incanandescent, halogs and CFL bulbs. Hard to Reach refers to LEDs sold in retailers that are located in hard to reach areas. The installation of Light-Emitting Diode (LED) serves—bulbs and fixtures. Savings are based on a baseline of a combination of incanandescent, halogs and CFL bulbs. These bulbs are distributed in food pantries. The installation of Light-Emitting Diode (LED) serves—bulbs and fixtures. Savings are based on a baseline of a combination of incanandescent, halogs and CFL bulbs. These bulbs are distributed in food pantries.	No No No No N/A N/A N/A N/A
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The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5076 Attachment PUC 1-38

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Program	Measure	Measure Description	Only Saves Delivered Fuels
		Domestic hot water measures include replacing high flow showerheads/faucet aerators with high-efficiency low-flow showerheads and faucet aerators	
	DHW - Oil		Yes
		Basic educational measures and TLC kit that includes refrigerator thermometer, LED nightlight, refrigerator coil brush and outlet/switch gaskets provide	
	Education - TLC	during an audit to help customers become more aware of energy efficiency.	No
	Freezer	This measure covers the replacement of an existing inefficient freezer with a new energy efficient model.	No
	Heating System	The installation of high efficiency heating . Savings are acheived by replacing an existing inefficient heating system with a high efficient one.	No
Single Family -	Heat Pump Water Heaters	Installation of a heat pump water heater (HPWH) instead of an electric resistance water heater.	No
Income Eligible Services	•	The installation of ENERGY STAR rated Light-Emitting Diode (LED) screw-in bulbs. Savings are achieved by replacing existing inefficien	
	LED Bulbs	incandescent and halogen bulbs.	No
	Programmable Thermostat, Gas	Installation of a programmable thermostat, which gives the ability to adjust gas heating or air-conditioning operating times according to a preset schedule	•No
	Programmable Thermostat, Oil	Installation of a programmable thermostat, which gives the ability to adjust oil heating or air-conditioning operating times according to a preset schedule	No
	Programmable Thermostat, Other		No
	Refrigerator rebate	This measure covers the replacement of an existing inefficient refrigerator with a new ENERGY STAR® rated refrigerator.	No
	g g. :	A smart strip use current sensors and switching devices which turn off plug load when devices are not in use. Savings are achieved by eliminating stands power draw.	
	Smart Strip	Installation of a programmable thermostat, which gives the ability to adjust electric heating or air-conditioning operating times according to a press	No
	Thermostat - Electric	installation of a programmable thermostat, which gives the ability to adjust electric heating or air-conditioning operating times according to a presi schedule. Baseline is a without a programable thermostats installed.	No
	WATERBED	Replacement of waterbed mattress with a standard mattress.	No
		The installation of weatherization measures in delivered fuel heated homes. Savings are acheived by applying insulation upgrades or air sealing t	
	Wx Delivered Fuel		No
	Wx Electric		No
	Minisplit Heat Pumps - Electric Resistance	The installation of high efficiency mini-split heat pumps fully replacing a electric resistance heaters. Savings are achieved through the higher efficiency the mini-split heat pumps when compared to the electric resistance heating.	No
	Program Planning & Administration	This is not a measure but is the Program Planning & Administration budget listed for the program in table E-2.	N/A
	Marketing		N/A
	Sales, Technical Assistance & Training	This is not a measure but is the Sales, Technical Assistance & Traning budget listed for the program in table E-2.	N/A
	Evaluation & Market Research	This is not a measure but is the Evaluation & Market Research budget listed for the program in table E-2.	N/A

Program	Measure	Measure Description	Only Saves Delivered Fuels
	AERATOR Elec	The installation of a low flow faucet aerator. Savings are acheived by replacing an existing high flow rate faucet aerator with a low flow faucet aerator.	No
	AERATOR Oil	The installation of a low flow faucet aerator. Savings are acheived by replacing an existing high flow rate faucet aerator with a low flow faucet aerator.	Yes
		Thermal shell air leaks are sealed through strategic use and location of air-tight materials. The baseline efficiency case is the existing building before the	
	AIR SEALING ELEC WITH AC	air sealing measure is implemented. The baseline building is characterized by the existing air changes per hour (ACHPRE).	No
		Thermal shell air leaks are sealed through strategic use and location of air-tight materials. The baseline efficiency case is the existing building before the	
	AIR SEALING OIL	air sealing measure is implemented. The baseline building is characterized by the existing air changes per hour (ACHPRE).	Yes
		The installation of ENERGY STAR rated Light-Emitting Diode (LED) fixtures in outdoor common-areas. Savings are achieved by replacing existing	
	Common Ext LED Fixture	inefficient fixtures. The installation of ENERGY STAR rated Light-Emitting Diode (LED) reflector bulb in outdoor common-areas. Savings are achieved by replacing	No
	Common Ext Reflector	existing inefficient incandescent and halogen bulbs.	No
		The installation of ENERGY STAR rated Light-Emitting Diode (LED) fixtures in indoor common-areas. Savings are achieved by replacing existing	
	Common Int LED Fixture	inefficient fixtures. The installation of ENERGY STAR rated Light-Emitting Diode (LED) reflector bulb in indoor common-areas. Savings are achieved by replacing	No
	Common Int Reflector	existing inefficient incandescent and halogen bulbs.	No
	G .	Vendors install a variety of high-efficient electric measures at multifamily facilities within common areas and dwelling units. Measures include lighting	
	Custom	HVAC, water heating, and insulation. Shell insulation upgrades applied in existing facilities including improved insulation in attics, basements and sidewalls. The baseline efficiency case is an	No
	INSULATION ELEC WITH AC	existing home shell measures.	No
	INSULATION OIL	Shell insulation upgrades applied in existing facilities including improved insulation in attics, basements and sidewalls. The baseline efficiency case is an	
	Participant (NEB)	existing home shell measures. This measure tracks program participation and does not have an associated energy savings value.	Yes No
	r atticipant (INED)	a me asure tracks program participation and does not have an associated energy savings value.	INO
	Refrig rebate	The installation of high efficiency refrigerator. Savings are achieved by replacing existing inefficient refrigerator with a new refrigerator.	No
	SHOWERHEAD Elec	The installation of a low flow showerhead with a control that limits flow once the water is heated. Savings are based on electric heating.	No
Income Eligible Multifamily	SHOWERHEAD Oil	The installation of a low flow showerhead with a control that limits flow once the water is heated. Savings are based on oil heating.	Yes
		A smart strip use current sensors and switching devices which turn off plug load when devices are not in use. Savings are achieved by eliminating stands	No
	Smart Strip	power draw.	No
	THERMOSTAT OIL	Installation of a programmable thermostat, which gives the ability to adjust oil heating or air-conditioning operating times according to a preset schedule	Yes
		The high efficiency measures is a thermostatic shutoff valve combined with a low flow showerhead. The baseline is a federal code showerhead, Saving is realized due to the combination of a reduction in hot water usage associated with the shut valve associated with a person waiting for the shower temp to	
	TSV Showerhead Elec	heat up and the lower flowrate associated with the low flow showerhead.	No
		The installation of ENERGY STAR rated Light-Emitting Diode (LED) screw-in bulbs in indoor common areas. Savings are achieved by replacing	
	Common Int EISA Exempt	existing inefficient incandescent and halogen bulbs. The installation of ENERGY STAR rated Light-Emitting Diode (LED) reflector bulb in outdoor dwelling-units. Savings are achieved by replacing	No
	Dwelling Ext Reflector	existing inefficient incandescent and halogen bulbs.	No
		The installation of ENERGY STAR rated Light-Emitting Diode (LED) screw-in bulbs in indoor dwelling units. Savings are achieved by replacing	
	Dwelling Int EISA Exempt	existing inefficient incandescent and halogen bulbs. The installation of ENERGY STAR rated Light-Emitting Diode (LED) reflector bulb in indoor dwelling-units. Savings are achieved by replacing	No
	Dwelling Int Reflector	The instantion of Execution of Ark rated Light-Emining Diode (LED) reflector build in indoor dwening-units. Savings are achieved by replacing existing inefficient incandescent and halogen builds.	No
		The installation of ENERGY STAR rated Light-Emitting Diode (LED) screw-in bulbs in outdoor common-areas. Savings are achieved by replacing	
	Common Ext LED Bulbs	existing inefficient incandescent and halogen bulbs. The installation of ENERGY STAR rated Light-Emitting Diode (LED) screw-in bulbs in indoor common-areas. Savings are achieved by replacing	No
	Common Int LED Bulbs	existing inefficient incandescent and halogen bulbs.	No
		The installation of ENERGY STAR rated Light-Emitting Diode (LED) screw-in bulbs in indoor dwelling units. Savings are achieved by replacing	
	Dwelling Int LED Bulbs	existing inefficient incandescent and halogen bulbs. The installation of Vending Miser controls to help reduce the energy consumption of vending machine lighting and refrigeration systems. The baselir	No
		efficiency case is a standard efficiency refrigerated beverage vending machine without a control system capable of powering down lighting and	
	Vending Miser	refrigeration systems during periods of inactivity.	No
	Participants	This measure tracks program participation and does not have an associated energy savings value.	No
	Program Planning & Administration	This is not a measure but is the Program Planning & Administration budget listed for the program in table E-2.	N/A
	Marketing	This is not a measure but is the Marketing budget listed for the program in table E-2. This is not a measure but is the Sales, Technical Assistance & Traning budget listed for the program in table E-2.	N/A
	Sales, Technical Assistance & Training Evaluation & Market Research	This is not a measure but is the Sales, Technical Assistance & Traning budget listed for the program in table E-2. This is not a measure but is the Evaluation & Market Research budget listed for the program in table E-2.	N/A N/A
	Evaluation & Market Research	and to not a measure out is the Evaluation of stanker research outget used for the program in table E-2.	1970
		Peak loads are reduced by increasing the thermostat settings during peak hours of peak days. Nine different thermostat manufacturers are currently	
	Thermostats New	supported in this BYOD (Bring Your Own Device) program. Customers can opt out of the program or individual events at any time.	No
	Thermostats Existing	Peak loads are reduced by increasing the thermostat settings during peak hours of peak days. Nine different thermostat manufacturers are currently supported in this BYOD (Bring Your Own Device) program. Customers can opt out of the program or individual events at any time.	No
Desil 1 of 1	THE HOSERS LAISUNG	properties in this 2 Cost (Dring Cost) Own Device) program. Customers can ope out of the program of mutriqual events at any time.	110
Residential ConnectedSolutions		Peak loads are reduced by discharging battery systems during peak hours of peak days. Five different battery integrators are currently supported in their	
ConnectedSolutions	Battery Daily (number of unit)	BYOD (Bring Your Own Device) program. Customers can opt out of the program or individual events at any time. Peak loads are reduced by turning off EV charging customers during peak hours of peak days. Customers can opt out of the program or individual events.	No
	EVs Peak (customers)	Peak loads are reduced by turning off EV charging customers during peak hours of peak days. Customers can opt out of the program or individual events at any time.	No
	Program Planning & Administration	This is not a measure but is the Program Planning & Administration budget listed for the program in table E-2.	N/A
	Marketing	This is not a measure but is the Marketing budget listed for the program in table E-2.	N/A
	Sales, Technical Assistance & Training	This is not a measure but is the Sales, Technical Assistance & Traning budget listed for the program in table E-2.	N/A
	Evaluation & Market Research	This is not a measure but is the Evaluation & Market Research budget listed for the program in table E-2.	N/A

PUC 1-39

Request:

Referring to Attachment 1, Table 3, please provide a short (i.e., about one sentence) description of each measure, including a description of how it saves natural gas relative to a baseline technology. Please note if the measure only saves delivered fuels.

Response:

Based on the wording of this request, the Company interpreted this question to mean "Referring to Attachment 1, Table 4" as opposed to Table 3.

Please see Attachment PUC 1-39 for the above requested information.

Because measures listed in Table 4 refer to natural gas program level measures, none of the measures listed only save delivered fuels.

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		Gas Programs
Program	Measure	Measure Description
	Boiler Reset	Boiler reset controls are devices that improve the efficiency of an existing boiler system by modulating the hot water temperature set point. Reset controls automatically control boiler water temperature based on outdoor temperature using a software program; load controls sense the thermal demand of the heating system and resets the water temperature based on the demand.
	Boiler90	The high efficiency case is a boiler with an AFUE greater than or equal to 90% while the baseline has an AFUE of 85%. The savings is due to an increase in efficiecy.
	Boiler95	The high efficiency case is a boiler with an AFUE greater than or equal to 95% while the baseline has an AFUE of 85%. The savings is due to an increase in efficiecy.
	Combo Condensing	The high efficiency case is a combo-boiler with an AFUE greater than or equal to 90% while the baseline has an AFUE of 85%. The savings is due to an increase in efficiecy.
	Combo Condensing 95	The high efficiency case is a combo-boiler with an AFUE greater than or equal to 95% while the baseline has an AFUE of 85%. The savings is due to an increase in efficiecy.
	Energy Star Cond Water Heater 0.80 UEF	Measure is a high efficiency condensing water heater replacing a federal code gas water heater. Savings is due to the higher efficiency associated with condensing water heaters.
	Furnace95 ECM	Measure is a high efficiency space heating gas-fired furnace greater than or equal to 95% AFUE with an electronically commutated motor (ECM) for the fan. baseline is an 85% AFUE furnace without an ECM motor. Savings is due to the increase in efficiency associated with the 95% AFUE furnace.
	Furnace97 ECM	Measure is a high efficiency space heating gas-fired furnace greater than or equal to 97% AFUE with an electronically commutated motor (ECM) for the fan. baseline is an 85% AFUE furnace without an ECM motor. Savings is due to the increase in efficiency associated with the 97% AFUE furnace.
	Heat Recovery Vent	Heat Recovery Ventilators (HRV) can help make mechanical ventilation more cost effective by reclaiming energy from exhaust airflows. An electric penalty results due to the increased electricity consumed by the system fans. The baseline efficiency case is an ASHRAE 62.2-compliant exhaust fan system with no heat recovery.
	Energy Star Storage Water Heater .64 UEF (Med Draw)	The high efficiency case is a stand-alone gas storage water heater with a unified energy factor >= 0.64. The baseline is a federal code gas water heater. Savings is due to the increase in efficiency associated with the 0.64 UEF water heater.
	Energy Star Storage Water Heater .68 UEF (High Draw)	The high efficiency case is a stand-alone gas storage water heater with a unified energy factor >= 0.68. The baseline is a federal code gas water heater. Savings is due to the increase in efficiency associated with the 0.68 UEF water heater.
EnergyStar®	Energy Star On Demand Water Heater 0.87 UEF	The high efficiency case is a gas tankless water heater with a unified energy factor >= 0.87. The baseline is a federal code gas water heater. Savings is due to the increase in efficiency associated with the 0.87 UEF tankless water heater.
HVAC	Low Flow Showerhead	The high efficiency measures is a low-flow showerhead with a flowrate of 1.75 GPD or less. Savings is due to the lower flow rate when compared to a federal standand showerhead.
	TSV	The high efficiency measures is a thermostatic shutoff valve that automatically shuts off the water when the temperature of shower becomes warm before a person is taking a shower. The baseline is a federal code showerhead., Savings is realized due to the reduction in hot water usage associated with a person waiting for the shower temperature to heat up.
	TSV Showerhead	The high efficiency measures is a thermostatic shutoff valve combined with a low flow showerhead. The baseline is a federal code showerhead. Savings is realized due to the combination of a reduction in hot water usage associated with a person waiting for the shower temp to heat up and the lower flower flow showerhead.

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		Gas Programs
Program	Measure	Measure Description
	Wifi Thermostat - Cooling And Heating	Installation of a Wi-Fi programmable thermostat which gives the ability to adjust heating and air-conditioning operating times according to a pre-set schedule and can be adjusted remotely. The baseline is a measure mix of programable thermostats and manual thermostats. Savings occur due to the combination of being able to set your thermostat and also being able to adjust your thermostat while not at home.
	Wifi Thermostat - Gas Heat Only	Installation of a Wi-Fi programmable thermostat which gives the ability to adjust heating operating times according to a pre-set schedule and can be adjusted remotely. The baseline is a measure mix of programable thermostats and manual thermostats. Savings occur due to the combination of being able to set your thermostat and also being able to adjust your thermostat while not at home.
	Programmable Thermostat	Installation of a programmable thermostat which gives the ability to adjust heating or air-conditioning operating times according to a pre-set schedule. The baseline is a manual thermostat. Savings occur due to the ability to pre-set your schedule eliminating the need to manually adjust when either going to bed or leaving your house.
	Combo Furnace	This measure promotes the installation of a combined condensing high-efficiency furnace and water heating unit. Combined furnace and water heating systems are more efficient than separate systems because they eliminate the standby heat losses of an additional tank. Savings occur both due to the increased efficiency of the furnace and the elimination of the storage tank which would have standby losses.
	Water Heater, Indirect, Gas	Installation of high efficiency gas water heaters: Indirect water heaters use storage tank that is heated by the main boiler. The energy stored by the water tank allows the boiler to turn off and on less often, saving energy.
	Program Planning & Administration	This is not a measure but is the Program Planning & Administration budget listed for the program in table G-2.
	Marketing	This is not a measure but is the Marketing budget listed for the program in table G-2.
	Sales, Technical Assistance &	This is not a measure but is the Sales, Technical Assistance & Traning budget listed for the program in table G-2.
	Evaluation & Market Research	This is not a measure but is the Evaluation & Market Research budget listed for the program in table G-2.
		The installation of a low flow faucet aerator. Savings are acheived by replacing an existing high flow rate faucet aerator with a low flow faucet
	Aerator	aeraior.
	Weatherization	The installation of weatherization measures in natural gas heated homes. Savings are acheived by applying insulation upgrades, air sealing to minimize inflitration of outside air throngh cracks and leaks in the existing home shell and duct sealing of leaking duct ventilation
	11 Carrier Transcon	The installation of recessed lighting cans that provide air sealing benefits. Savings are achieved by replacing leaky recessed lighting cans in the
	Air Sealing Kit (Gas)	participating household. Savings for natural gas comes from reduced usage of the heating system.
	Showerhead	The installation of a low flow showerhead with a control that limits flow once the water is heated. Savings are based on gas heating.
	Pipe Wrap	The installation of domestic hot water pipe wrap to reduce gas water heating losses. Savings are achieved by applying insulation in existing equipment without pipe insulation.
Energy wase	Thermostat	Installation of a programmable thermostat, which gives the ability to adjust gas heating operating times according to a preset schedule.
	WiFi Thermostat	The installation of Wi-Fi thermostat with the ability to adjust gas heating operating times according to a pre-set schedule to meet occupancy needs and also be able to remotely adjust schedules when not at home. Baseline is a blend of manual thermostats and programable thermostats.
	Participants	This measure tracks program participation and does not have an associated energy savings value.
	Program Planning & Administration	This is not a measure but is the Program Planning & Administration budget listed for the program in table G-2.
	Marketing	This is not a measure but is the Marketing budget listed for the program in table G-2.
	Sales, Technical Assistance &	This is not a measure but is the Sales, Technical Assistance & Traning budget listed for the program in table G-2.
	Evaluation & Market Research	This is not a measure but is the Evaluation & Market Research budget listed for the program in table G-2.

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		Gas Programs
Program	Measure	Measure Description
	Air Sealing	Thermal shell air leaks are sealed through strategic use and location of air-tight materials. The baseline efficiency case is the existing building before the air sealing measure is implemented. The baseline building is characterized by the existing air changes per hour (ACHPRE)
	cust non-lgt	Vendors who install a variety of non-lighting gas measures at multifamily facilities within common areas and dwelling units. Gas measures include HVAC, insulation, and domestic hot water equipment and measures.
)	Ducts are sealed by reconnecting disconnected duct joints and sealing gaps or seams with mastic and fiber-mesh tape as appropriate. The baseline
	Duct Sealing	efficiency case is the existing facility or equipment prior to the implementation of duct sealing.
	Fancet Aerator	The installation of a low flow faucet aerator. Savings are acheived by replacing an existing high flow rate faucet aerator with a low flow faucet aerator.
	T	This relates to insulation upgrades which are applied in existing multifamily facilities. The baseline efficiency case is characterized by the total R-
	Insulation	vaue of the existing attic, basement of sidewall. The installation of domestic hot water pipe wrap to reduce gas water heating. Savings are achieved by applying insulation in existing equipment
	Pipe Wrap (Water Heating)	without pipe insulation.
EnergyWise		Installation of a programmable thermostat which gives the ability to adjust heating or air-conditioning operating times according to a pre-set
Multifamily	Programmable Thermostat	schedule. For the installation of a programmable thermostat, the baseline efficiency case is an HVAC system using natural gas to provide space heating without a programmable thermostat.
	O	The high efficiency measures is a thermostatic shutoff valve combined with a low flow showethead. The baseline is a federal code showethead.
		Savings is realized due to the combination of a reduction in hot water usage associated with a person waiting for the shower temp to heat up and the
	TSV Showerhead	lower flowrate associatiated with the low flow showerhead.
		Installation of a Wi-Fi programmable thermostat which gives the ability to adjust heating operating times according to a pre-set schedule and can be
	WEE: 41. comme and a comme	adjusted remotely. The baseline is a measure mix of programable thermostats and manual thermostats. Savings occur due to the combination of being
	WILL UICHINOSIAL gas	adie to set your metinostat and also deling adie to adjust your metinostat white not at nome.
	Participants	This measure tracks program participation and does not have an associated energy savings value.
	Program Planning & Administration	This is not a measure but is the Program Planning & Administration budget listed for the program in table G-2.
	Marketing	This is not a measure but is the Marketing budget listed for the program in table G-2.
	Sales, Technical Assistance &	This is not a measure but is the Sales, Technical Assistance & Traning budget listed for the program in table G-2.
	Evaluation & Market Research	This is not a measure but is the Evaluation & Market Research budget listed for the program in table G-2.
		A Home Energy Report sent to recently activated electric and gas customers that displays home energy consumption in comparison with peers and
	New movers dual fuel	prompts energy conserving behavior. The baseline is a control group of homes that does not receive Home Energy Keports. Although this is referred to as a new mover, the customer might have been new to their home many years ago when the grouping was initiated.
		A Home Energy Report sent to electric and gas customers that displays home energy consumption in comparison with peers and prompts energy
	Opt-out dual fuel	conserving behavior. The baseline is a control group of homes that does not receive Home Energy Reports.
Home Energy	Opt-out gas only	A Home Energy Report sent to gas customers that displays home energy consumption in comparison with peers and prompts energy conserving behavior. The baseline is a control group of homes that does not receive Home Energy Reports.
Keports	Refill	This category is no longer used.
	Program Planning & Administration	This is not a measure but is the Program Planning & Administration budget listed for the program in table G-2.
	Marketing	This is not a measure but is the Marketing budget listed for the program in table G-2.
	Sales, Technical Assistance &	This is not a measure but is the Sales, Technical Assistance & Traning budget listed for the program in table G-2.
	Evaluation & Market Research	This is not a measure but is the Evaluation & Market Research budget listed for the program in table G-2.
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		Gas Programs
Program	Measure	Measure Description
	CODES AND STANDARDS	Energy efficiency code trainings and advocacy work to improve energy efficiency of buildings and equipment within Rhode Island. Savings are claimed by increasing the percentage of code compliant residential homes.
		Heating savings resulting from Energy Star Homes Code Plus projects with high efficient heating equipment, insulation, and infiltration. Code Plus projects are positioned below Tier I Energy Start Homes and above current URDH. This measure saves energy by increasing the efficiency when
	CP	compared to the base case of the UDRH.
		DHW savings resulting from Energy Star Homes Code Plus projects with high efficient water heating equipment. Code Plus projects are positioned below Tier I Energy Start Homes and above current URDH. This measure saves energy by increasing the efficiency when compared to the base case
	CP-DHW	of the UDRH.
		Heating savings resulting from Renovation Rehab Code Plus projects with replacement high efficient heating equipment, insulation, and infiltration. Renovation Rehab Code Plus projects are positioned below Tier I Enerov Start Homes and above current IRDH. This measure saves enerov by
	RR CP	increasing the efficiency when compared to the base case of the UDRH.
		DHW savings resulting from Energy Star Homes Code Plus projects with replacement high efficient water heating equipment. Code Plus projects are projectived below. Then I Brown Stort Homes and above comment IDDH. This magnetic gases appears by increasing the efficiency when commend to the
	RR CP-DHW	positioned octor risk i energy start from a another carrier of the line incasars saves energy by increasing the criticisms with compared to the base case of the UDRH.
	1	Heating savings resulting from Renovation Rehab projects with replacement high efficient heating equipment, insulation, and infiltration. This
	KK Her I	measure save energy by increasing the efficiency when compared to the other first energy by increasing the efficiency when compared to the officiency many than the other energy of the ot
	RR Tier 1 - DHW	DIA washings resulting from removation remay projects with replacement figure entering water freating equipment. This measure saves energy by increasing the efficiency when compared to the base case of the UDRH.
	RR Tier 2	Heating savings resulting from Renovation Rehab projects with replacement high efficient heating equipment, insulation, and infiltration. This measure saves energy by increasing the efficiency when compared to the base case of the UDRH.
		DHW savings resulting from Renovation Rehab projects with replacement high efficient water heating equipment. This measure saves energy by
	RR Tier 2 - DHW	increasing the efficiency when compared to the base case of the UDRH.
	RR Tier 3	Heating savings resulting from Renovation Rehab projects with replacement high efficient heating equipment, insulation, and infiltration. This measure saves energy by increasing the efficiency when compared to the base case of the UDRH.
	PP Tier 3 - DHW	DHW savings resulting from Renovation Rehab projects with replacement high efficient water heating equipment. This measure saves energy by
:		nicreasing the efficiency when compared to the base case of the ODKH. Heating savings resulting from Renovation Rehab projects with replacement high efficient heating equipment, insulation, and infiltration. This
Residential New	V RR Tier 4	measure saves energy by increasing the efficiency when compared to the base case of the UDRH.
Construction	MIN First And	DHW savings resulting from Renovation Rehab projects with replacement high efficient water heating equipment. This measure saves energy by
	SHOWERHEAD	increasing the ciricity when compared to the base case of the ODKH. The increllation of a low flow chowerhand with a control that limite flow once the water is hasted
		Heating savings resulting from Energy Star Homes projects with high efficient heating equipment, insulation, and infiltration. This measure saves
	Tier 1	energy by increasing the efficiency when compared to the base case of the UDRH.
	Tier 1 - DHW	DHW savings resulting from Energy Star Homes projects with high efficient water heating equipment. This measure saves energy by increasing the efficiency when compared to the base case of the UDRH.
	C ::C:E	Heating savings resulting from Energy Star Homes projects with high efficient heating equipment, insulation, and infiltration. This measure saves
	1161.2	energy by increasing the enretency when compared to the base case of the ODKH. DHW sovings resulting from Fnergy Star Homes projects with high efficient water heating equipment. This measure saves energy by increasing the
	Tier 2 - DHW	efficiency when compared to the base case of the UDRH.
	Tier 3	Heating savings resulting from Energy Star Homes projects with high efficient heating equipment, insulation, and infiltration. This measure saves eleneray by increasing the efficiency when compared to the base case of the UDRH.
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		Gas Programs
Program	Measure	Measure Description
	Tier 3 - DHW	DHW savings resulting from Energy Star Homes projects with high efficient water heating equipment. This measure saves energy by increasing the efficiency when compared to the base case of the UDRH.
	Tier 4	Heating savings resulting from Energy Star Homes projects with high efficient heating equipment, insulation, and infiltration. This measure saves energy by increasing the efficiency when compared to the base case of the UDRH.
	Tier 4 - DHW	DHW savings resulting from Energy Star Homes projects with high efficient water heating equipment. This measure saves energy by increasing the efficiency when compared to the base case of the UDRH.
	Adaptive Reuse	Gas savings resulting from converting abandoned mills and factory buildings into multifamily residences. Adaptive Reuse projects include a custom mix of measures and improvements.
	Participants	This measure tracks program participation and does not have an associated energy savings value.
	Program Planning & Administration	This is not a measure but is the Program Planning & Administration budget listed for the program in table G-2.
	Marketing	This is not a measure but is the Marketing budget listed for the program in table G-2.
	Sales, Technical Assistance &	This is not a measure but is the Sales, Technical Assistance & Traning budget listed for the program in table G-2.
	Evaluation & Market Research	This is not a measure but is the Evaluation & Market Research budget listed for the program in table G-2.
	Heating System Replacement	The installation of high efficiency heating . Savings are acheived by replacing an existing inefficient heating system with a high efficient one.
Single Family -		The installation of weatherization measures in electric heated homes. Savings are acheived by applying insulation upgrades or air sealing to minimize inflitration of outside air through cracks and leaks in the existing home shell.
Income Eligible	Participants	This measure tracks program participation and does not have an associated energy savings value.
Services	Program Planning & Administration	This is not a measure but is the Program Planning & Administration budget listed for the program in table G-2.
	Marketing	This is not a measure but is the Marketing budget listed for the program in table G-2.
	Sales, Technical Assistance &	This is not a measure but is the Sales, Technical Assistance & Traning budget listed for the program in table G-2.
	Evaluation & Market Research	This is not a measure but is the Evaluation & Market Research budget listed for the program in table G-2.
		Thermal shell air leaks are sealed through strategic use and location of air-tight materials. The baseline efficiency case is the existing building before
	Air Sealing	the air sealing measure is implemented. The baseline building is characterized by the existing air changes per hour (ACHPRE) The installation of a binh efficiency natural are fined condensing but water boiler. High efficiency condensing boilers can take advantage of improved
		The instantation of a figure efficiency frautal gas incer concensing not water botter. High efficiency contensing botters can take advantage of improved design, sealed combustion and condensing flue gases in a second heat exchanger to achieve improved efficiency. The baseline efficiency is
	Boiler Commercial	determined based on the type of exhisting heating equipment installed.
	:	The installation of high efficiency boiler to replace the existing inefficient furnace, hydronic boiler or steam boiler. The baseline efficiency is
	Bouler	determined based on the type of exhisting heating equipment installed.
	Cust Non-Lgt	Vendors install a variety of non-lighting gas measures at multifamily facilities within common areas and dwelling units. Gas measures include HVAC, insulation, and domestic hot water equipment and measures.
)	The installation of a low flow faucet aerator. Savings are acheived by replacing an existing high flow rate faucet aerator with a low flow faucet
	Faucet Aerator	aerator.
		This relates to insulation upgrades which are applied in existing multifamily facilities. The baseline efficiency case is characterized by the total R-
Income Eligible	Insulation	value of the existing attic, basement or sidewall.
Multifamily	Pipe Wrap (Water Heating)	The installation of domestic hot water pipe wrap to reduce gas water heating. Savings are achieved by applying insulation in existing equipment without pipe insulation.
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		Gas Programs
Program	Measure	Measure Description
		Installation of a programmable thermostat which gives the ability to adjust heating or air-conditioning operating times according to a pre-set
		schedule. For the installation of a programmable thermostat, the baseline efficiency case is an HVAC system using natural gas to provide space
	Programmable Thermostat	heating without a programmable thermostat.
		The high efficiency measures is a thermostatic shutoff valve combined with a low flow showerhead. The baseline is a federal code showerhead.
		Savings is realized due to the combination of a reduction in hot water usage associated with a person waiting for the shower temp to heat up and the
	TSV Showerhead	lower flowrate assocatiated with the low flow showerhead.
	Participants	This measure tracks program participation and does not have an associated energy savings value.
	Program Planning & Administration	This is not a measure but is the Program Planning & Administration budget listed for the program in table G-2.
	Marketing	This is not a measure but is the Marketing budget listed for the program in table G-2.
	Sales, Technical Assistance &	This is not a measure but is the Sales, Technical Assistance & Traning budget listed for the program in table G-2.
	Evaluation & Market Research	This is not a measure but is the Evaluation & Market Research budget listed for the program in table G-2.

PUC 1-40

Request:

Please explain if there are electric savings associated with weatherization of delivered-fuel homes. If so, please explain if these savings have typically counted towards National Grid's achievement of kWh and kW savings targets and actual performance in previous plans.

Response:

There are secondary electric savings associated with weatherization of delivered-fuel homes. Delivered-fuel home weatherization incentives are supported by the electric energy efficiency system benefit charge for the Company's electric customers. The electric kWh and kW savings have been included in both savings targets and actual performance calculations in previous plans. The electric savings from weatherizing homes that heat with delivered fuels come from reduced electrical use by heating system fans, as well as through reduced cooling load.

PUC 1-41

Request:

Please provide a single table with rows indicating all pilots, assessments, and demonstrations. Please make the columns the following:

- a. Cost
- b. Savings
- c. Years operated
- d. Report filed (yes/no)

Response:

Please refer to Attachment PUC 1-41.

Attachment PUC 1-41

uel	Sector	PDA Type	Name	a.) Budge	t (2021)	Savings Estimation from 2021 Plan*	b.) Estimate for Claimed Savings (2021)	c.) Years Operated	d.) Report filed (Y/N)**
Gas	C&I	Pilot	Gas Demand Response Pilot	\$	215,780	(projected for 2021)	27,280 Therms	2018-2021	Y
		Demonstration	Continuous Energy Improvement (CEI)	\$	179,200	75,000 Therms (projected for 2021)	75,000 Therms	2018-2021	Υ
			Network Lighting Controls Plus HVAC (NLC+)	\$	64,154		960 Therms	2020-2021	Υ
			Smart Valves	\$	59,250	23,000 Therms (projected for 2021)	23,000 Therms	2021	N
			Kitchen Exhaust	\$	134,593	(potential)	2900 Therms	2020-2021	Υ
			Gas Heat Pumps	\$	233,287	15,000-20,000 Therms (for a 400-600 mbh unit)	80,000 Therms	2020-2022	Y
		Assessment	Shared Laundry Facility Clothes Washers and Dryers	\$	19,441	Unknown	N/A	2021	N
			Use of Submetering to Support EE Opportunities	\$	25,921	Unknown	N/A	2021	N
	Residential	Demonstration	New Air Sealing and Insulation Products	\$	77,762	0.1 Therm/sqft		2021-2022	N
			Gas Heat Pumps	\$ 2	201,445	250 Therms/unit	2,500 therms	2021-2022	N
		Assessment	Pre-Fab Whole House Energy Refurbishment	\$	19,441	Unknown	N/A	2021	N
Electric	C&I	Demonstration	Continuous Energy Improvement (CEI)	\$	380,800	976 MWh (projected for 2021)	976 MWh	2018-2021	Υ
			Network Lighting Controls Plus HVAC (NLC+)		201,000	· ·	115 MWh	2020-2021	Υ
			Kitchen Exhaust	\$	66,292	27 MWh (potential)	15 MWh	2020-2021	Υ
			Smart Valves	\$	177,750	300 MWh (projected for 2021)	300 MWh	2021	N
			Enzyme-based HVAC Coil Cleaning	\$	85,538	6-10% of HVAC consumption		2021	N
		Assessment	Shared Laundry Facility Clothes Washers and Dryers	\$	6,480	Unknown	N/A	2021	N
			Use of Submetering to Support EE Opportunities	\$	25,921	Unknown	N/A	2021	N
			Refrigerant Leak Survey and Repair	\$	25,921	Unknown	N/A	2021	N
			HVAC Automation for Demand Response	\$	25,921	Unknown	N/A	2021	N
	Residential	Demonstration	New Air Sealing and Insulation Products	\$	25,921	0.05 kWh/sqft		2021-2022	N
			Solar Inverter Direct Load Control	\$ 2	254,570	102.5 kWh/ inverter	180 MWh	2021-2023	N
		Assessment	Pre-Fab Whole House Energy Refurbishment	\$	6,480	Unknown	N/A	2021	N

^{*} Savings Estimate from Attachment 8 of the 2021 Annual Plan
** Reported in the Energy Efficiency Quarterly Reports during 2020. All Pilots, Demonstrations, and Assessments will continue to be included in Energy Efficiency Quarterly Reports during 2021.

PUC 1-42

Request:

For each pilot, assessment, and demonstration, please provide the following:

- a. A short (e.g., about a single sentence) stating what question or issue is being tested.
- b. A list of the specific tests used to answer the question or issue above, the costs associated with each test, and how each test is designed to achieves [sic] new and useful information.
- c. A list of costs necessary to support the specific activities above.
- d. The timing of when results will be delivered for each activity.
- e. The format in which results will be delivered for each activity.

Response:

The Company has a proposed total of 15 pilots, demonstrations, and assessments (PDAs) in 2021. The sections below provide the requested details for each pilot, demonstration, or assessment included in the RI 2021 Annual Plan. All costs are associated with costs that are expected in 2021, even in cases where the PDA may continue into 2022.

The amount of detail for each PDA differs depending on where the PDA is in its development and what types of tests are used in the analysis. Some PDAs that are proposed in the 2021 Annual Plan have not been fully approved, and therefore have not been fully scoped. In this case we are not able to provide granular detail on costs associated with each test and have therefore provided the estimated cost for the PDA in 2021. Some PDAs have been scoped, but we are not able to isolate or allocate costs for each test due to limitations in budget estimates or because the tests are interconnected. There are some PDAs that do have the level of requested granularity and it is provided in the response. However, because these PDAs will have costs associated with tasks outside of the specific tests, such as administrative costs or incentives, the costs will not match Attachment 8.

C&I Pilot - Gas Demand Response

- a) The pilot is answering if customers will continue to alter their gas usage sufficiently to demonstrate gas system peak reductions dependably over multiple winter seasons.
- b) With Gas Demand Response, the Company will identify or test claiming distribution system benefits by a reduction of gas system peak demand and customer adoption of gas DR and incentive levels to drive participation. Additional information on these tests is in the table below.

PUC 1-42, page 2

c) Costs are not available for each individual test since the tests are interconnected and overlapping. The cost provided in the table is the total budget for 2021.

Test	b) Description	c) Cost of Activity
1	<u>Customer Interest</u> : The company expects to retain the customer	\$215,780
	enrollments recruited in the previous seasons.	
2	<u>Incentive Levels</u> : Will customers remain enrolled at or below the	
	performance incentive rates.	
3	System Benefits: Continuing to search for and identify system	
	benefits from calling gas DR events.	
4	Program Scale: Which customers are most likely to participate,	
	how many of them are there, and what does "at scale" look like.	

- d) Learnings from the winter 2020/2021 will be available at the end of the Winter Gas DR season Q2 of 2021.
- e) Updates on the pilot deliverables and results will be provided as part of the quarterly Energy Efficiency Quarterly Reports filed with the PUC.

C&I Demonstration - Enzyme-based HVAC Coil Cleaning

- a) The primary test questions for the Enzyme-based Coil Cleaning demonstration are the following:
 - Conventional power washing of HVAC coils leads to small but well-understood savings. Do recently developed approaches to coil cleaning, such as removing dirt and biofilm from coils with a chemical enzyme, lead to measurably increased savings?
 - Does this novel approach justify its increased costs? Are there other non-energy impacts, such indoor air quality improvements, or sanitation improvements?
- b) This demonstration will identify three to four customer sites and install submetering with roof-top units. It will also contract a vendor such as Blue Box Air to perform its enzyme-base cleaning process with individual RTUs at these sites, while also separately contracting conventional pressure-washing with other RTUs at these sites. This will demonstrate the potential improvement of cooling efficiency with an enzyme-based cleaning process. The company will monitor the performance of these systems and efficiency improvements over a three-to-six-month period through vendor evaluation, also monitoring IAQ improvement.

PUC 1-42, page 3

c) Costs are provided in the table below. Note that this demonstration does not have cost estimates for each individual test. The value provided represents the 2021 budget for the Enzyme-based HVAC Coil Cleaning demonstration.

Test	b) Description	c) Cost of Activity
1	Enzyme cleaning vs. pressure washing: By performing different cleanings on individual RTUs at the same sites, incremental savings improvements will be quantified	\$85,538
2	Monitoring IAQ: Measuring particulate matter and microbial presence will validate the sanitation and IAQ benefits of enzyme-based cleaning.	

- d) The enzyme-based cleaning is planned to occur in Q1-Q2, in order to precede peak summer cooling load, though exact timing depends on site recruitment and project implementation. Ongoing measurement and verification, including measurement of indoor air quality, will continue throughout 2021, with the final report delivered by the end of 2021.
- e) Updates on the demonstration deliverables and results will be provided as part of the quarterly Energy Efficiency Quarterly Reports filed with the PUC. The final demonstration results will be compiled in a final report and presentation.

C&I Demonstration - Strategic Energy Management (SEM)/Continuous Energy Improvement (CEI)

- a) The primary test questions for the Strategic Energy Management/Continuous Energy Improvement are the following:
 - Can a series of energy efficiency interventions, including individual and group coaching, result in increased operation and maintenance energy efficiency actions in the short-term, and energy efficiency capital measures in the medium-term?
 - Can a series of energy efficiency interventions, including individual and group coaching, lead to increased energy efficiency actions over the long-term?
- b) The Strategic Energy Management/Continuous Energy Improvement demonstration will be assessed in two phases:
 - By comparing and analyzing the customer's operation and maintenance energy efficiency installations, and the capital energy efficiency savings during the test period and comparing the number and value of those installations against the customer's actions before the intervention occurred.

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- By comparing, analyzing, and monitoring energy efficiency actions of the
 participating customers after the demonstration has completed to determine if the
 coaching and education has resulted in continuous energy efficiency
 improvement, increased energy efficiency installations, and increased energy
 efficiency savings.
- c) The SEM/CEI demonstration cost of activity for program year 2021 is projected to be \$380,800 for electric and \$179,200 for gas. These costs are associated with training, workshops, assistance, quality assurance and quality control, and program management.
- d) Electric savings from SEM/CEI are claimed annually in December. Gas savings from SEM/CEI are claimed annually in March.
- e) The savings results come in the form of a Customer Energy Savings Report memo, an Energy Modeling Report, and a Data Workbook. Updates on the demonstration deliverables and results will be provided as part of the quarterly Energy Efficiency Quarterly Reports filed with the PUC.

C&I Demonstration - Network Lighting Controls Plus HVAC

- a) The primary research questions for the Network Lighting Controls Plus HVAC demonstration are:
 - What are the benefits and costs associated with integrating NLC systems with BAS, particularly regarding increased HVAC control savings?
 - What is the capacity in RI market to support integrated controls projects?
- b) The NLC+HVAC demonstration was designed in two phases. Phase I, completed in 2020, deployed 22 interviews with program staff, customers, lighting industry representatives, and HVAC industry representatives. Phase II will include 4 customer installation projects, likely to be initiated in 2021. Customer installations will include problem solving integration issues, M&V of energy savings, customer and vendor experience interviews. The tasks associated with Phase II, relevant to the 2021 Plan, are provided in the table below.
- c) Costs associated with each test are provided in the table below. These estimates represent costs associated with each test in 2021. These will not match the values provided in Attachment 8, which includes other demonstration costs like incentives and administrative costs.

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Test	b) Description of Test and Purpose	c) Cost of Activity
1	<u>Problem solving integration issues</u> : Identify areas where contractors	\$115,000
	need training or coordination, facilitate successful completion of	
	integration. Identify common barriers or pain points in project	
	implementation	
2	M&V of savings: Quantify and verify actual realized savings at	\$18,000
	each site. Compare estimated savings to actual, understand	
	proportion of savings from lighting vs. HVAC integration	
3	<u>Interviews</u> : The interviews will be a key component of the	\$9,600
	demonstration, helping understand how an effective program	
	should be designed to address project pain points and market	
	barriers.	

- d) The timing of each deliverable depends on the time required for customer recruitment and project implementation. It's expected that projects will be implemented in 2021, with problem solving and integration lessons learned available by the end of the year. Savings verification and experience interviews will take place concurrent and after project implementation, with the final report and presentation available in 2022.
- e) Updates on the demonstration deliverables and results will be provided as part of the quarterly Energy Efficiency Quarterly Reports filed with the PUC. The final demonstration results will be compiled in a final report and presentation.

C&I Demonstration - Kitchen Exhaust

- a) The primary research questions for the kitchen exhaust demonstration include:
 - What is the savings potential of three kitchen exhaust measures in the RI marketdemand control ventilation, energy recovery, and electrostatic filtration?
 - What are the individual and interactive realized savings for these three measures?
 - What are the target customers and market barriers for these products?
- b) Phase I of this demonstration, completed in 2020, estimated the overall potential of these products in commercial kitchens in RI through market research, interviews, and modeling. Phase II will include 4 customer installations of energy recovery and electrostatic filtration products. Demand control ventilation is not included in Phase II since it has already been included in the National Grid programs and is well understood.
- c) Costs are provided in the table below. Note that this demonstration does not have cost estimates for each individual test. The value provided represents the 2021 budget for the Kitchen Exhaust demonstration.

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Test	b) Description	c) Cost of Activity
1	<u>Problem solving installations</u> : identify areas where contractors	\$200,886
	need training or coordination. Identify common barriers or pain	
	points in project implementation	
2	M&V of savings: Quantify and verify actual realized savings at	
	each site. Understand the individual and interactive savings when	
	multiple measures installed.	
3	<u>Interviews</u> : The interviews will be a key component of the	
	demonstration, helping understand how an effective program	
	should be designed to address project pain points and market	
	barriers.	

- d) The timing of each deliverable depends on the time required for customer recruitment and project implementation. It's expected that projects will be implemented in Q1 and Q2 of 2021. Savings verification and experience interviews will take place concurrent and after project implementation, with the final report and presentation available by the end of 2021.
- e) Updates on the demonstration deliverables and results will be provided as part of the quarterly Energy Efficiency Quarterly Reports filed with the PUC. The final demonstration results will be compiled in a final report and presentation.

C&I Demonstration - Smart Valves on Chilled Water Systems

- a) Smart valve measures on chilled water systems have not been offered or tested through the RI energy efficiency programs. This demonstration will quantify the overall potential of the valve, estimate the energy savings associated with each installation, identify best practices, and identify target customer types.
- b) The demonstration will include three to four customer installations with M&V and characterize the energy savings for the device. Additional detail is provided in the table below.
- c) The costs for these tests are provided in the table below. This planned demonstration has not been fully scoped, so there is not detail on how much of the budget will be associated with each test. The value in the table represents the total demonstration budget for the study for 2021.

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Test	b) Description	c) Cost of Activity
1	<u>Installation and optimization</u> : Install 3-4 projects to identify best	\$237,000
	practices for installation, including how smart valves may be used	
	in plant optimization.	
2	M&V: Savings will be verified at each installation site using trend	
	data as available and additional metering as needed.	
3	Modeling: Energy savings will be modeled to test for energy	
	drivers and understand the range of possible savings under	
	different conditions. This information will inform	
	recommendations for building or system types that would benefit	
	most from these devices.	

- d) The timing of each deliverable depends on the time required for customer recruitment and project implementation. It's expected that projects will be implemented by the end of 2021. Savings verification and experience interviews will take place concurrent and after project implementation, with the final report and presentation available by the end of 2021.
- e) Updates on the demonstration deliverables and results will be provided as part of the quarterly Energy Efficiency Quarterly Reports filed with the PUC.

C&I Demonstration - Gas Heat Pumps

- a) Gas engine heat pumps perform with a comparable mechanism (though significantly lower efficiency) than convention electric heat pumps. More recent products rely on a novel absorption thermodynamic cycle, which is not yet validated on the basis of performance, either for heating and cooling. This demonstration will seek to validate that performance.
- b) Gas heat pumps will be installed at three to four customer sites, including those with primarily high heating loads, as well as locations with both heating and cooling loads such as food and beverage processing, hotels, and multi-unit apartment buildings. Tests will evaluate average coefficients of performance, ongoing maintenance costs, and performance with cold outdoor temperatures.
- c) The costs for these tests are provided in the table below. This planned demonstration has not been fully scoped, so there is not detail on how much of the budget will be associated

PUC 1-42, page 8

d) with each test. The value in the table represents the total demonstration budget for the study for 2021 through 2022.

Test	b) Description	c) Cost of
		Activity
1	<u>Heating and Cooling Balance</u> : Through implementation at various sites,	\$233,287
	the demonstration will validate whether improved efficiency is possible	
	through serving simultaneous heating and cooling load.	
2	Maintenance costs: Limited validation of long-term repair costs is	
	possible through the demonstration, but the demonstration will seek to	
	quantify the costs of regular maintenance.	
3	Cold weather performance: Limited performance data is available for	
	absorption heat pumps in cold climates; the demonstration will assess	
	the impact of winter temperatures on COP	

- e) The activities will be developed concurrently, though serving cooling load will be measured in summer months, and analyzing coefficient of performance in cold weather (activity 3) will take place primarily over winter months. Beginning activities will depend on customer recruitment, as well as vendor/installer arrangements. It is expected that projects will be implemented by the end of 2021, with evaluation occurring from late 2021 through 2022. The final report and presentation will be delivered by the end of 2022.
- f) Updates on the demonstration deliverables and results will be provided as part of the Energy Efficiency Quarterly Reports filed with the PUC. The final demonstration results will be compiled in a final report and presentation.

C&I Assessment - HVAC Automation for Demand Response

a) The assessment of HVAC Automation for Demand Response will explore the role of incentivizing advanced communications and control infrastructure in enabling increased demand response-ready capacity. Specifically, it will answer the question of whether incentivization for certain standards of communication and control lead to greater participation in demand response.

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- b) This is a research and interview-based assessment, without field testing. The Company has investigated and will investigate comparable incentive programs, such as the OpenADR standard in California, as well as interview demand response infrastructure manufacturers and the curtailment service providers that participate in Connected Solutions.
- c) The cost of the assessment is listed in the table below. The planned assessment is not yet fully scoped, so a detailed cost breakout for individual activities is not yet available. The value in the table represents total assessment budget for 2021.

Test	b) Description	c) Cost of
		Activity
1	Researching standards: Understanding whether setting a common standard or	\$25,921
	incentivizing DR-ready infrastructure more effectively enables participation	
2	<u>DR-enabler interviews:</u> Interviewing the controls and communications vendors, as	
	well as interviewing curtailment providers, including those active in other	
	territories with a range of alternative incentive schemes, to judge best pathways to	
	DR enablement.	

- d) The timing of this assessment (due to a lack of field testing) is not subject to typical project management delays; interviews and research will occur through Q3 2021.
- e) Updates on the deliverables and assessment will be provided through the Energy Efficiency Quarterly Reports filed with the PUC, followed by a final memo with conclusions in Q3 2021.

C&I Assessment - Shared Laundry Facility Clothes Washers and Dryers

- a) This assessment will research the feasibility of a midstream or upstream commercial laundry offering to promote the installation of higher efficiency shared washers and dryers. The focus of this assessment will be to understand the feasibility of a potential upstream offering.
- b) This will be a research-based assessment, with no in field testing. The assessment will be made based on research and analysis on whether the program would be cost effective and whether there is a pathway for the programs to meaningfully change customer behavior at any point in the product life cycle.

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c) The cost of the assessment is listed in the table below. The planned assessment is not yet fully scoped, so a detailed cost breakout for individual activities is not yet available. The value in the table represents total assessment budget for 2021.

Test	b) Description	c) Cost of Activity
1	Cost Effectiveness: Research on savings and costs between	\$25,921
	standard and high efficiency equipment. The standard RI benefit	
	cost test will be performed.	
2	Leverage Points: Research and interviews will be conducted to	
	understand the market, other energy efficiency programs in this	
	area, and how effective an offering might be.	

- d) The internal research activities will be completed by the end of 2021.
- e) Updates on the demonstration deliverables and results will be provided as part of the quarterly Energy Efficiency Quarterly Reports filed with the PUC. The findings will be summarized in a memo as well.

C&I Assessment - Use of Submetering to Support Energy Efficiency Opportunities

- a) This assessment will research and document the costs and opportunities associated with supporting installation of submetering through the energy efficiency programs. The research will examine whether or not offering or encouraging submetering in the programs is a cost-effective way to encourage, produce, and claim new energy savings through the energy efficiency programs.
- b) This will be a research and interview-based assessment. No field installations will be performed. The research will assess different types of submetering, what savings opportunities or other benefits they support, costs, and persistence of savings.
- c) There are no costs specifically associated with the two tests listed in the table below. The costs included represent expected 2021 spending on this assessment.

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Test	Test b) Description	
		Activity
1	<u>Lit review of submetering practices</u> : this review will summarize and compile	\$51,841
	information about ways in which submetering is used, how it produces savings,	
	overlap with other program models (such as pay for performance), costs, and	
	benefits of submetering. The review will also revisit past program policies.	
2	<u>Discussion</u> : This assessment will coordinate with stakeholders, program staff, and	
	experts to facilitate a discussion about whether the programs should support	
	submetering through the programs and to what extent.	

- d) The internal research activities will be completed by the end of 2021.
- e) Updates on the demonstration deliverables and results will be provided as part of the quarterly Energy Efficiency Quarterly Reports filed with the PUC. The findings will be summarized in a memo as well.

C&I Assessment - Refrigeration Leak Survey and Repair

- a) The assessment will answer whether a refrigeration leak survey and repair offering would be cost effective.
- b) The assessment will perform research and interviews to quantify the energy and GHG savings associated with refrigeration leak survey and repair above regulatory requirements.
- c) The costs for this assessment are estimated in the table below.

Test	b) Description	c) Cost of Activity
1	Cost Effectiveness: Research and interviews will be performed to	\$25,921
	assess a potential program's cost effectiveness. Research will be	
	performed to identify programs in other states and the savings	
	potential of the program.	

- d) The internal research activities will be completed by Q3 of 2021.
- e) Updates on the demonstration deliverables and results will be provided as part of the quarterly Energy Efficiency Quarterly Reports filed with the PUC. The findings will be summarized in a memo as well.

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Residential Demonstration - New Air Sealing and Insulation Products

- a) The demonstration will investigate an airborne acrylic spray technology used in new construction and in renovations to reduce infiltration, as measured by a simultaneous blower door test. It will also investigate a polyurethane injection foam which improves building envelope insulation in new construction and in renovations.
- b) Both technologies will be tested with six homes. Testing will evaluate the infiltration and insulation improvements of each technology, as well as two homes with both technologies implemented, with the final measurements of air infiltration rate and R-value, as well as measuring off-gassing and toxicity concerns for the injection foam technology.
- c) The cost of the demonstration is listed in the table below. This planned demonstration has not been fully scoped, so there is not detail on how much of the budget will be associated with each test. The value in the table represents the total demonstration budget for the study for 2021 through 2022.

Test	b) Description	c) Cost of Activity
		Activity
1	Air infiltration rate: The demonstration will measure the reduced	\$103,683
	infiltration from the airborne acrylic spray.	
2	R-value: The demonstration will measure improved insulation from	
	the injection foam, as well as testing for health hazards from the foam	

- d) Demonstration activity timing will depend on customer recruitment and project implementation. However, the products are expected to be tested with the customer sites by Q1 2022, measurement and evaluation will occur through 2022, and the final report will be available by Q4 2022.
- e) Updates on the demonstration deliverables and results will be provided as part of the Energy Efficiency Quarterly Reports filed with the PUC. The final demonstration results will be compiled in a final report and presentation.

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Residential Demonstration - Solar Inverter Direct Load Control

- a) Can a BYOD (Bring-your-own-device) type offering targeting customer-owned and connected inverter optimization demonstrate measurable energy and/or demand reduction while being beneficial to grid operation.
- b) The demonstration would recruit installed customer-owned solar inverters to connect and participate to explore how the demand response program utilizes this existing functionality of customer solar inverters to benefit the grid by working with customers to promote the most beneficial inverter settings. The demonstration would test recruitment, communication, setting adjustment, and measure impact.
- c) The costs for these tests are provided in the table below. This planned demonstration has not been fully scoped, so there is not detail on how much of the budget will be associated with each test. The value in the table represents the total demonstration budget for the study for 2021.

Test	b) Description	c) Cost of Activity
1	<u>Customer Recruitment</u> : While we have been able to recruit high	\$111,650
	numbers of Connected Solutions customers, this equipment user	
	is a new type and will they sign up similarly	
2	<u>Device Communication</u> : Does direct device communication	\$42,920
	operate similarly to existing direct load control?	
3	Inverter Setting Adjustment: Do customers and inverter	
	manufacturers accept setting adjustment of their equipment?	
4	Measure Impact: Will adjustments made to inverter setpoints	\$100,000
	result in measurable energy or demand reductions?	

- d) The timing of each deliverable depends on the time required for customer recruitment and project implementation. It is expected that recruitment, device communication, and setting adjustment would occur in Q2 2021 and measure impact measured by the end of O4 2021.
- e) Updates on the demonstration deliverables and results will be provided as part of the quarterly Energy Efficiency Quarterly Reports filed with the PUC. The final demonstration results will be compiled in a final report and presentation.

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Residential Demonstration - Gas Heat Pumps

- a) Conventional gas heat pumps are typically not transferrable to residential scale, due to an engine-based designs. Novel gas absorption heat pumps rely on a different thermodynamic cycle and can possibly be scaled down to residential scale. This demonstration, similarly to the commercial-scale demonstration, will determine gas heat pump efficiency in a residential context.
- b) As with the commercial-scale demonstration, this test will validate cost and performance for gas heat pumps at two to three residential single-family sites, evaluating the difference in performance between systems providing heating and systems which provide heating and cooling. Maintenance costs will also be measured throughout the demonstration, and the demonstration will measure heat pump performance in cold temperatures.
- c) The costs for these tests are provided in the table below. This planned demonstration has not been fully scoped, so there is not detail on how much of the budget will be associated with each test. The value in the table represents the total demonstration budget for the study for 2021 through 2022.

Test	b) Description	c) Cost of Activity
1	Heating and Cooling Balance: Through implementation at various	\$201,445
	sites, the demonstration will validate whether serving both space	
	heating and cooling loads reduces overall efficiency, as opposed to	
	simply providing space heating and/or hot water heating.	
2	Maintenance costs: Limited validation of long-term repair costs is	
	possible through the demonstration, but the demonstration will seek	
	to quantify the costs of regular maintenance.	
3	<u>Cold weather performance</u> : Limited performance data is available	
	for absorption heat pumps in cold climates; the demonstration will	
	assess the impact of winter temperatures on COP	

d) The activities will be developed concurrently, though serving cooling load will be measured in summer months, and analyzing coefficient of performance in cold weather (activity 3) will take place primarily over winter months. Beginning activities will depend on customer recruitment, as well as vendor/installer arrangements. It is expected that projects will be implemented by the end of 2021, with evaluation occurring from late 2021 through 2022. The final report and presentation will be delivered by the end of 2022.

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e) Updates on the demonstration deliverables and results will be provided as part of the Energy Efficiency Quarterly Reports filed with the PUC. The final demonstration results will be compiled in a final report and presentation.

Residential Assessment - Pre-Fab Whole House Energy Refurbishment

- a) The assessment will research and document the capability in the Rhodes Island building supply chain to specify, design, and deliver prefabricated exterior improvements to substantially improve housing while residents continue to live in the structures.
- b) This will be a research and interview-based assessment. No field installations will be performed. The assessment will perform research and interviews to assess the capability of the Rhode Island building market to deliver prefabricated whole home energy refurbishments. The research will look at the building lifecycle "trigger event", the ability to aggregate owner demand and market power, the building industry capability, and building owner financing opportunities for interventions of this sort.
- c) The costs for these tests are provided in the table below.

Test	b) Description	c) Cost of Activity
1	Research & Interviews: The primary focus of this assessment will be to understand and baseline the current status of Rhode Island components needed to support whole-home exterior retrofits. After the baseline condition is understood, and if the components and capability exist, the Company will estimate overall savings potential for this measure and roadmap necessary to promote this approach.	\$25,921

- d) The internal research activities will be completed by the end of 2021.
- e) Updates on the assessment deliverables and results will be provided as part of the Energy Efficiency Quarterly Reports filed with the PUC.

PUC 1-43

Request:

Please list all demand response (DR) pilots that are focused on shifting energy use to times when energy can be procured at a lower cost, rather than DR that is focused on offsetting or eliminating the need for capital investment. Please list all DR pilots that are focused on offsetting or eliminating the need for capital investment.

Response:

There is one DR pilot (and one DR demonstration - Solar Inverter Direct Load Control) planned for 2021. The DR pilot is Gas Demand Response which is entering its third demonstration season. This pilot is not exclusively focused on either time shifting for cost avoidance or offsetting/eliminating the need for capital investment. The pilot is designed to test a gas demand response program's ability to provide both. The Company believes that gas demand response has the potential to reduce Company gas procurement costs through allowing for a lesser volume of gas supplies to be purchased at times when those costs are high. Additionally, at sufficient scale and with sufficiently demonstrated reliability (both dimensions which the proposed pilot expansion is designed to inform), gas demand response also offers the potential for offsetting or eliminating the need for capital investment in gas infrastructure.

PUC 1-44

Request:

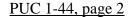
Since 2003, on a whole, has the diversity of electric measures increased, decreased, or stayed the same, and has the Company's experience with those electric measures increased, decreased, or stayed the same?

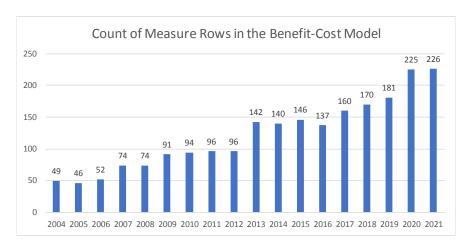
Response:

On a whole, the diversity in the number of measures included in the electric portfolio of programs has increased in the Company's experience over the past 17 years. The Company generally has sought to include new measures and market approaches through the programs due to changes in code, as new technologies come to the market, and in response to new priorities from stakeholders.

To illustrate the changing diversity of measures over time the Company extracted the count of measure types included in the benefit cost analysis models for the electric portfolio since 2004. While these counts do not reflect one-to-one the measures offered in the programs because categories in the benefit-cost model can include multiple subcategories of measures in actual implementation, they are illustrative of the level of detail at which the programs were planned over time and are a proxy for the measures included in the programs over time. While this is one way to view the diversity of measures, even in 2003 the Company had experience with many of the measures that are currently offered due to earlier programs. While efficiency levels of measures and exact technologies have changed, the Company generally has a long track record with a variety of measures offered through the programs.

¹ Information from the benefit-cost model for 2003 was not available.





Over the past five years within the Commercial and Industrial sector the level of concentration of savings within specific programs has generally increased compared to prior years. In the C&I sector, the savings from Large Commercial Retrofit represented the largest share of within-sector savings for the past five years and an increasing trend of concentration of sector savings in that program over time.

	Percentage of Within-
	Sector Savings from top
Year	C&I program by year
2019	72%
2018	77%
2017	77%
2016	74%
2015	53%
2014	69%
2013	41%
2012	49%
2011	52%
2010	61%
2009	65%
2008	48%
2007	49%
2006	63%
2005	51%
2004	51%
2003	57%

PUC 1-44, page 3

In the Residential sector, in the past six years (2014 – 2019) the top two programs in terms of contribution to annual sector electric energy savings have been EnergyStar® Lighting and Home Energy Reports. In years 2003 – 2013 the top two programs in terms of savings were EnergyStar® Lighting and EnergyWise. These two programs have accounted for the following percentages of within-sector savings for the past five years:

	Percentage of Within-
	Sector Savings from top
	two Residential programs
Year	by year
2019	81%
2018	82%
2017	84%
2016	77%
2015	71%
2014	73%
2013	69%
2012	81%
2011	79%
2010	78%
2009	80%
2008	88%
2007	93%
2006	87%
2005	93%
2004	90%
2003	93%

Over time, as measures have been offered for longer periods of time, the Company has generally become more experienced with those measures. At the same time, the Company continues to look for opportunities to introduce new products to the programs and to develop markets for those products as savings have become concentrated in a few areas of the portfolio. New measures and offerings allow for opportunities for the Company to learn how those measures are received by customers and further refinements to those measure offerings can be made based on experience. For example, the Company has added new technologies like WiFi thermostats to programs as they have entered the market. Also, as code advances measures may be removed from the programs and more efficient offerings that fit the same product category can be added.

PUC 1-45

Request:

Referring to Bates 253, the company states if it is determined in the December 1st filing the 2020 carryover is projected to be less than projected in the October 15th filing, the SBC will not be increased. If this occurs, what programs will be cut to avoid an increase in the SBC?

Response:

Should the anticipated year-end 2020 fund balance reported in the December 1st update be less than the fund balance anticipated in the initial plan filing, the Company does not intend to reduce planned 2021 implementation budgets (or to cut any programs) to avoid an increase in the SBC.

Rather, in this scenario, the Company would propose holding the planned 2021 SBC surcharges constant, and effectively plan on and project a negative year-end 2021 fund balance. The impact of this would, holding all else equal, require larger 2022 SBC surcharges in order to meet not only 2022 implementation expense funding requirements, but also to fully reconcile any resulting 2021 under-collections.

PUC 1-46

Request:

Please provide a table in which the first column is all the benefits and costs in the RI Benefit Cost Framework, the second columns identifies if the benefits/cost category is quantified or qualified in the Plan, the third column is the quantification or qualification of the category, and the fourth column includes any notes National Grid would like to offer on the category or response

Response:

Please see Attachment PUC 1-46, replicated from Bates 548 – 557 of the Filing.

Page 1 of 2

Attachment PUC 1-46
Docket 4600 Benefit-Cost Matrix as Applied to the 2021 Electric Energy Efficiency and Demand Response Portfolio

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Category Level	Cat.#	Mixed Benefit-Cost, Cost, or Benefit Category	Treatment in Benefit-Cost Analysis (Quantified, Qualified, Not Treated)	Present Value or Qualitative Description	Description and Notes	Benefit or Cost
	21	Distribution system and customer reliability / resilience impacts	Quantified	\$100,836 \$523,690	by the avoided summer kW savings. Applies to both energy efficiency measures and active demand response	Benefit Benefit
	22	Distribution system safety loss/gain	Not Quantified or Qualified	\$523,690 See Notes	measures. Additional research necessary to determine applicability and qualitative/quantitative impacts for cost	Undetermined
				\$18,435,780	effectiveness screening of energy efficiency programs. Energy Efficiency measures: Participant contribution cost is the direct cost of the measure that is not covered by	Cost
		Program participant / prosumer benefits /	Quantified	S-	the customer rebate/incentive for energy efficiency measures. Active demand response measures: There is no customer cost for the ConnectedSolutions Active Demand Response program.	Cost
	23	costs	Quantified	\$47,968,696	Quantifiable non-resource, non-energy impacts are included within the calculation of Non-Energy Impacts as described within the Non-Energy Impacts section of the 2021 Annual Plan. Non resource, non-energy impacts may include but are not limited to labor, material, facility use, health and safety, materials handling, national security, property values, and transportation.	Benefit
Customer Level	24	24 Participant non-energy costs/benefits: Oil, Gas, Water, Waste Water Quantified		\$12,179,491	Energy Efficiency measures: Quantification of Resource Benefits from: Natural Gas, Oil, Propane, Water & Sewage, Natural Gas Benefits are based on Appendix C of the 2018 AESC study, Oil and Propane Benefits are based on Appendix D of the 2018 AESC study, Water & Sewage Benefits are dervied from an internet survey of rates posted to the RI PUC website.	Benefit
				S-	Active demand response measures: no corresponding benefits for oil, gas, water, wastewater in the Active Demand Response benefit cost analysis so this value is zero	Benefit
	25	Low-Income Participant Benefits	Quantified	See Notes	Low-Income Participant Benefits benefits are included within the calculation of Non-Energy Impacts as described within the Non-Energy Impacts section of the 2021 Annual Plan. See the category "Program participant / prosumer benefits / costs" for these benefits	Benefit
	26	Consumer Empowerment & Choice	Not Quantified or Qualified	See Notes	Additional research necessary to determine applicabililty and qualitative/quantitative impacts for cost effectiveness screening of energy efficiency programs.	Undetermined
	27	Non-participant (equity) rate and bill impacts	Quantified	See Notes	External to cost effectiveness analysis. Bill Impacts model the effects of efficiency programs on annual customer bills by aggregating rate and consumption changes, including non-participants. Electric and natural gas rate and bill impact models included in Attachment 7 of the 2021 Annual Plan	Benefit (but not included in BCA screening)
	28	Graanhousa gas avtarnality costs			Energy Efficiency measures: Quantified Non-embedded Greenhouse gas reduction benefits obtained from the 2018 AESC Study. Non-embedded CO2 values are sourced from the following tables in the 2018 AESC Study: Table 154 for electric savings and Table 156 for gas savings and oil savings.	Benefit
	20	28 Greenhouse gas externality costs Quantified		\$1,670	Active Demand Response measures: Quantified Non-embedded Greenhouse gas reduction benefits obtained from the 2018 AESC Study. Non-embedded CO2 values are sourced from the following tables in the 2018 AESC Study: Table 154 for electric savings and Table 156 for gas savings and oil savings.	Benefit
	29	Criteria air pollutant and other environmental externality costs	Quantified	\$1,739,435	Quantified Non-embedded NOx reduction benefits obtained from the 2018 AESC Study. Additional research would be required to determine other benefit streams from air pollutants and other environmental externalities	Benefit
	30	Conservation and community benefits	Not Quantified or Qualified	See Notes	Additional research necessary to determine applicability and qualitative/quantitative impacts for cost effectiveness screening of energy efficiency programs.	Undetermined
	31	Non-energy costs/benefits: Economic	Quantified	\$286,266,811	Energy efficiency measures: Quantified Economic Development Benefits based on the methodology described in the 2021 Annual Plan	Benefit
	31	Development	Quantified	\$8,174,903	Active demand response measures: Quantified Economic Development Benefits based on the methodology described in the 2021 Annual Plan	Benefit
Societal Leve	32	Innovation and knowledge spillover (Related to demonstration projects and other RD&D preceding larger scale deployment)	Qualified	Likely minimal value	Additional research necessary to determine applicability and qualitative/quantitative impacts for cost effectiveness screening of energy efficiency programs. The portfolio of programs includes pilots, demonstrations and assessments and these likely generate benefits to further program and market development. The value of these innovation and knowledge spallower benefits is unknown but is estimated to be small in comparison to the overall magnitude of benefits currently included in the screening of the electric portfolio.	Benefit
	33	Societal Low-Income Impacts	Not Quantified or Qualified	See Notes	Low-Income Benefits are included within the calculation of Non-Energy Impacts as described within the Non- Energy Impacts section of the 2021 Annual Plan however they are aggregated with other Non-Energy Impacts and ther	Undetermined
	34	Public Health	Quantified	See Notes	Health Benefits are included within the calculation of Non-Energy Impacts as described within the Non-Energy Impacts section of the 2021 Annual Plan however they are aggregated with other Non-Energy Impacts and therefore their value is not broken out here. These NEIs are included in the Program participant / prosumer benefits / costs category	Benefit
	35	National Security and US international influence	Qualified	Likely minimal value	Additional research necessary to determine applicability and qualitative/quantitative impacts for this category. To the degree that the efficiency portfolio investments reduce reliance on foreign sources of energy there can be benefit. Those effects are unknown and estimated to be small in comparison to the overall magnitude of benefits currently included in the screening of the electric portfolio.	Benefit

PUC 1-47

Request:

Please provide a chart showing what measures do not meet the cost of supply test. Please identify the program that each measure falls under and provide the cost of supply for each measure.

Response:

In completing this response, the Company utilized its standard benefit cost models to produce estimates of the cost of supply at the measure level for the measures within the electric and natural gas portfolios as included in the 2021 Annual Energy Efficiency Plan.

Typically, within the benefit-cost model the costs attributed to a measure will include both incentives and rebates to customers as well as customer contributions, while associated savings and benefits are also calculated at the measure level. However, in some cases, programs plan incentives and customer contributions at a higher level, e.g., a "participant" line item. This is most typically done when the program offers a suite of measures that are often delivered together to customers, such as in the EnergyWise program. "Participant" covers the home energy assessment visit, walk through of the home with the customer, identification of weatherization and/or appliance opportunities, and any necessary combustion safety testing. In the benefit-cost analysis, this break-out allows quick identification of how many customers the program anticipates serving.

Additionally, other programmatic cost categories are planned at the level of programs, sectors, or, in some cases, at the portfolio overall. In order to assess the cost of supply at measure level, the Company took several additional data processing steps to allocate these costs of supply and costs of energy efficiency to the measure level. These steps are outlined below.

- If a measure has only incentives and customer costs planned at the measure level in the BC models, they are allocated and aligned at the measure level.
- If a program (such as EnergyWise multi-family) has all incentives and customer costs planned at a single "participant" measure in the BC model, those costs are distributed to individual measures in proportion to the benefits that make up the total cost of supply for each component measure in the program. This is a simplifying assumption for the purposes of this analysis. Similarly, if a program has its "arrearage" cost of supply

PUC 1-47, page 2

component planned at the single "participant" measure in the BC model, that category was also distributed to individual measures in proportion to the benefits that make up the total other costs of supply for each component measure in the program. The same approach applied if corresponding Participant Costs (Customer Contributions) were planned at a "participant" level.

- If a program (such as EnergyWise single family) has incentives and customer costs planned at both the individual measure and the "participant" measure, the costs that are planned at the measure level were kept at the measure level at which they are planned, and the incentive costs that are planned at the "participant" measure level were distributed among the measures in the program in proportion to the benefits that make up the total cost of supply for each component measure in the program. As with the other cost allocation approaches identified above, this is a simplifying assumption for the purposes of this analysis.
- If a program has measures that are disaggregated in savings (and benefits) for planning purposes and have their associated customer incentive and customer contribution on only one line item, but reflect a combined offering (such as the cooling, heating, and water heating line items in Tier 1, 2, and 3 homes in the Residential New Construction program), the benefits and costs associated with those measures were collapsed to one line item for this analysis.
- In the case of the Home Energy Reports program, where incentives and customer costs are not planned at the measure level, programmatic costs were distributed to the measures in the program in proportion to their benefits included as costs of supply.

With respect to program-level, sector-level, and portfolio-level costs, further steps were taken to distribute costs to measure level. As with the preceding steps, the steps used to distribute costs to measures from higher levels of aggregation represent a simplifying assumption for the purposes of this analysis. These further distributions were made in an attempt to answer this request as completely as possible, by accounting for all costs of the energy efficiency portfolios in the analysis.

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- Program-level costs: These costs were distributed to measures by multiplying the portion of a program's total costs (that are not already captured by the incentives and rebates category) by the ratio of a measure's benefits divided by the total benefits for that program.
- Sector-level costs: Sector-level costs were distributed to measures by multiplying the total sector-level costs for the sector (residential, income eligible, or commercial and industrial) by the ratio of a measure's program costs (as described in the prior step) to the total of all program costs for that sector. Categories of costs that fit this category include the following, with the sectors in which they apply indicated in parentheses:
 - o Electric portfolio:
 - Community based initiatives (commercial & industrial, residential), pilots (commercial & industrial, residential), financing (commercial & industrial), workforce development (commercial & industrial, residential, income eligible), energy efficiency education (residential), and comprehensive marketing (residential).
 - o Natural gas portfolio:
 - Community based initiatives (commercial & industrial, residential), pilots (commercial & industrial, residential), workforce development (commercial & industrial, residential, income eligible), and comprehensive marketing (commercial & industrial, residential).
 - O Performance Incentive: The performance incentive is planned and measured at the sector level in the proposed mechanism. Its costs were distributed to measures by multiplying the performance incentive total for a sector by the ratio of a measure's program costs (as described in the prior step) to the total of all program costs for that sector. Performance incentive was not allocated to the residential and commercial ConnectedSolutions programs as those are not eligible for the energy efficiency performance incentive.
- Portfolio-level costs: Portfolio-level costs are the regulatory costs for OER and EERMC
 that are included in each of the electric and natural gas portfolios. These costs were
 distributed to all measures by multiplying the total portfolio-level costs by the ratio of a
 measure's program costs to the total program costs for all programs.

PUC 1-47, page 4

Please refer to Attachments PUC 1-47-1 and 1-47-2 for the summaries of measure-level cost of supply, for the electric and natural gas portfolios respectively, indicating which measures included in the 2021 Annual Energy Efficiency Plan do not meet the cost of supply test, following from the methodology as outlined above and utilizing the categories of costs of supply and costs of energy efficiency as shown in Table 36 (Bates 117) of the Three-Year Energy Efficiency Plan.

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5076 Attachment PUC 1-47-1

Attachment PUC 1-47-1
Summary of Measures Not Meeting Cost of Supply for the Proposed 2021 Electric Portfolio

		Summary of Measures	S Not Meeting Cost of Supply for the Proposed 2021 Electric	Portfolio	1	1
	Sector	Program	Measure	Cost of Supply	Cost of Energy Efficiency	Difference
Ref	а	b	с	d	e	f = d - e
1	Residential	Residential New Construction	Renovation Rehab Tier 3 Home	\$ 29,63		\$ (33,982)
2	Residential	Residential New Construction	Tier 4 Home	\$ 167,57		\$ (53,237)
3	Residential	EnergyStar HVAC	ACS16SEER13EER	\$ 128,29		\$ (28,449)
4	Residential	EnergyStar HVAC	HPWH >=55 gallon UEF 2.0	\$ 3,48		\$ (1,266)
	Residential	EnergyWise	Wx - OIL	\$ 10,458,92		\$ (2,783,766)
7	Residential Residential	EnergyWise EnergyWise	Wx Elec - Elec Heat only Wifi thermostat - Electric	\$ 595,28 \$ 3,76		\$ (569,462) \$ (348)
	Residential	EnergyWise	LED Bulbs	\$ 593,65		\$ (441,448)
	Residential	EnergyWise	LED Bulbs (EISA Exempt)	\$ 29,10		\$ (28,185)
10	Residential	EnergyWise	LED Bulbs Reflectors	\$ 73,72		\$ (50,457)
11	Residential	EnergyWise	LED Indoor Fixture	\$ 8,56		\$ (41,737)
12	Residential	EnergyWise	LED Outdoor Fixture	\$ 8		\$ (417)
	Residential	EnergyWise	Refrigerator Brush	\$ 100,86		\$ (12,564)
	Residential	EnergyWise Multi Family	AIR SEALING ELEC WITH AC	\$ 381,78		\$ (183,163)
15	Residential	EnergyWise Multi Family	AIR SEALING OIL	\$ 9,56		\$ (4,589)
16	Residential	EnergyWise Multi Family	INSULATION ELEC WITH AC	\$ 307,54	\$ 455,092	\$ (147,547)
17	Residential	EnergyWise Multi Family	INSULATION OIL	\$ 774,77	2 \$ 1,146,473	\$ (371,702)
18	Residential	EnergyWise Multi Family	AERATOR	\$ 11,24	\$ 16,637	\$ (5,394)
19	Residential	EnergyWise Multi Family	AERATOR Oil	\$ 1,75	\$ 2,603	\$ (844)
	Residential	EnergyWise Multi Family	Pipe Wrap DHW Elec	\$ 10,01		\$ (4,807)
	Residential	EnergyWise Multi Family	SHOWERHEAD Elec	\$ 43,99		\$ (21,106)
22	Residential	EnergyWise Multi Family	SHOWERHEAD OIL	\$ 5,45		\$ (2,618)
23	Residential	EnergyWise Multi Family	TSV Showerhead Elec	\$ 20,19		\$ (9,688)
24	Residential	EnergyWise Multi Family	TSV Showerhead Oil	\$ 2,99	_	\$ (1,435)
	Residential	EnergyWise Multi Family	THERMOSTAT CIL	\$ 617,04		\$ (296,030)
26	Residential	EnergyWise Multi Family	THERMOSTAT OIL	\$ 10,69		\$ (5,131)
	Residential	EnergyWise Multi Family	Common Ext LED Bulbs	\$ 31,68		\$ (15,202)
28	Residential	EnergyWise Multi Family	Common Ext LED Fixture	\$ 43,44		\$ (20,841)
29	Residential	EnergyWise Multi Family	Common Lat EICA Evenant	\$ 3,61		\$ (1,733)
	Residential Residential	EnergyWise Multi Family EnergyWise Multi Family	Common Int EISA Exempt Common Int LED Bulbs	\$ 1,20 \$ 80,35		\$ (577) \$ (38,549)
32	Residential	EnergyWise Multi Family EnergyWise Multi Family	Common Int LED Builds Common Int LED Fixture	\$ 58,01		\$ (38,549)
33	Residential	EnergyWise Multi Family EnergyWise Multi Family	Common Int Reflector	\$ 2,01		\$ (27,834)
	Residential	EnergyWise Multi Family EnergyWise Multi Family	Dwelling Ext LED Fixture	\$ 2,01		\$ (356)
35	Residential	EnergyWise Multi Family EnergyWise Multi Family	Dwelling Ext Reflector	\$ 36		\$ (336)
36	Residential	EnergyWise Multi Family EnergyWise Multi Family	Dwelling Int EISA Exempt	\$ 4,33	_	\$ (2,081)
37	Residential	EnergyWise Multi Family EnergyWise Multi Family	Dwelling Int LED Bulbs	\$ 18,97		\$ (2,081)
	Residential	EnergyWise Multi Family	Dwelling Int Reflector	\$ 7,32		\$ (3,514)
39	Residential	EnergyWise Multi Family	Smart Strip	\$ 50,62		\$ (24,287)
40	Residential	EnergyWise Multi Family	Refrig rebate	\$ 45,11		\$ (21,645)
	Residential	EnergyWise Multi Family	Vending Miser	\$ 5,16		\$ (2,478)
	Residential	EnergyStar Lighting	LED Bulb (Fixture)	\$ 1,834,95		\$ (387,297)
43	Residential	EnergyStar Lighting	LED Bulb (Food Pantries)	\$ 136,97		\$ (7,943)
44	Residential	EnergyStar Lighting	LED Bulb (School Fundraiser)	\$ 7,27		\$ (422)
45	Residential	EnergyStar Appliances	Energy Star ProductsTier 2 APS	\$ 1,098,97	\$ 1,108,571	\$ (9,595)
46	Residential	EnergyStar Appliances	Energy Star ProductsTier 2 APS OS	\$ 941,98	\$ 950,204	\$ (8,224)
47	Income Eligible	Low Income Single Family	AMPEDUC - TLC	\$ 115,41		\$ (574,414)
48	Income Eligible	Low Income Single Family	AMPWx Elec	\$ 167,37		\$ (66,953)
49	Income Eligible	Low Income Single Family	Early Retirement CW Elec DHW & Gas Dryer	\$ 263,93		\$ (61,315)
50	Income Eligible	Low Income Single Family	AMPACREPLACE	\$ 420,97		\$ (376,898)
51	Income Eligible	Low Income Single Family	AMPHEATSYSTEM	\$ 1,980,59		\$ (822,533)
52	Income Eligible	Low Income Single Family	AMPMinisplit Heat Pumps - Electric Resistance	\$ 645,84		\$ (307,997)
53	Income Eligible	Low Income Single Family	AMPLED Bulbs	\$ 359,26		\$ (155,243)
54	Income Eligible	Low Income Single Family	Early Retirement CW Gas DHW & Elec Dryer	\$ 4,13		\$ (557)
55	Income Eligible	Low Income Single Family	Early Retirement CW Gas DHW & Gas Dryer	\$ 103,95 \$ 2,593,48		\$ (91,283) \$ (210,238)
56 57	Income Eligible Income Eligible	Low Income Single Family Low Income Multi Family	AMPRefrig rebate Custom	\$ 2,593,48 \$ 45,56		\$ (210,238) \$ (100,140)
58	Income Eligible	Low Income Multi Family	AIR SEALING ELEC WITH AC	\$ 45,56		
58	Income Eligible	Low Income Multi Family	AIR SEALING OIL	\$ 30,85		\$ (87,815)
60	Income Eligible	Low Income Multi Family	INSULATION ELEC WITH AC	\$ 56,33	7 7 751,057	\$ (123,828)
61	Income Eligible	Low Income Multi Family	INSULATION OIL	\$ 622,71		\$ (1,368,683)
62	Income Eligible	Low Income Multi Family	AERATOR Elec	\$ 4,44		\$ (9,768)
63	Income Eligible	Low Income Multi Family	AERATOR OIL	\$ 4,13		
64	Income Eligible	Low Income Multi Family	SHOWERHEAD Elec	\$ 52,24		\$ (114,827)
65	Income Eligible	Low Income Multi Family	SHOWERHEAD OIL	\$ 64,15		\$ (140,996)
66	Income Eligible	Low Income Multi Family	TSV Showerhead Elec	\$ 36,83		\$ (80,969)
67	Income Eligible	Low Income Multi Family	THERMOSTAT Elec with AC	\$ 201,62		\$ (443,164)
68	Income Eligible	Low Income Multi Family	THERMOSTAT OIL	\$ 54,86	_	\$ (120,592)
69	Income Eligible	Low Income Multi Family	Common Ext LED Bulbs	\$ 10,18	\$ 32,574	\$ (22,388)
70	Income Eligible	Low Income Multi Family	Common Ext LED Fixture	\$ 31,62	7 \$ 101,140	\$ (69,513)
71	Income Eligible	Low Income Multi Family	Common Ext Reflector	\$ 48	\$ 1,552	\$ (1,067)
72	Income Eligible	Low Income Multi Family	Common Int LED Bulbs	\$ 11,25		\$ (24,737)
73	Income Eligible	Low Income Multi Family	Common Int LED Fixture	\$ 74,47		\$ (163,694)
74	Income Eligible	Low Income Multi Family	Common Int Reflector	\$ 64		
75	Income Eligible	Low Income Multi Family	Dwelling Ext Reflector	\$ 8		\$ (193)
76	Income Eligible	Low Income Multi Family	Dwelling Int EISA Exempt	\$ 17		\$ (381)
77	Income Eligible	Low Income Multi Family	Dwelling Int LED Bulbs	\$ 2,82		
78	Income Eligible	Low Income Multi Family	Dwelling Int Reflector	\$ 8		\$ (193)
79	Income Eligible	Low Income Multi Family	Smart Strip	\$ 18,84		
80	Income Eligible	Low Income Multi Family	Refrig rebate	\$ 99,52		\$ (218,748)
81	Income Eligible	Low Income Multi Family	Vending Miser	\$ 5,30		\$ (11,661)
82	Commercial & Industrial	Direct Install	Lighting controls	\$ 1,047,68	\$ 1,340,323	\$ (292,639)

82 | Commercial & Industrial | Direct Install | Lighting controls | \$ 1,047,684 | \$ 1,340,323 | \$ (292 Notes: Cost of Supply and Cost of Energy Efficiency Sums the relevant categories as indicated in Table 36 (Bates 117) of the Three-Year Energy Efficiency Plan Filing, with additional calculations as indicated in the response text to PUC 1-47 in order to calculate at measure-level.

The Narragansett Electric Company d/b/a National Grid

RIPUC Docket No. 5076
Attachment PUC 1-47-2
Summary of Measures Not Meeting Cost of Supply for the Proposed 2021 Natural Gas Portfolio

	Sector	Program	Measure	Co	ost of Supply	Cost of Energy Efficiency	Difference
Ref	a	b	С		d	e	f = d - e
1	Residential	EnergyStar HVAC	Boiler90	\$	161,063		
2	Residential	EnergyStar HVAC	Boiler95	\$	1,095,654		
3	Residential	EnergyStar HVAC	COMBO CONDENSING	\$	78,358		
4	Residential	EnergyStar HVAC	COMBO CONDENSING 95	\$	3,978,545		
5	Residential	EnergyStar HVAC	ENERGY STAR COND WATER HEATER 0.80 UEF	\$	6,468		
6	Residential	EnergyWise	Aerator	\$	1,047	\$ 1,203	
7	Residential	EnergyWise	Weatherization	\$	7,219,118	\$ 10,857,463	\$ (3,638,345)
8	Residential	Residential New Construction	CP-DHW	\$	2,566	\$ 4,488	\$ (1,921)
9	Residential	Residential New Construction	RR CP-DHW	\$	571	\$ 4,044	\$ (3,473)
10	Residential	Residential New Construction	RR Tier 1	\$	21,487	\$ 22,457	\$ (970)
11	Residential	Residential New Construction	RR Tier 1 - DHW	\$	1,168	\$ 4,222	\$ (3,054)
12	Residential	Residential New Construction	RR Tier 2 - DHW	\$	3,519	\$ 8,668	\$ (5,150)
13	Residential	Residential New Construction	RR Tier 3	\$	26,639	\$ 51,711	\$ (25,072)
14	Residential	Residential New Construction	RR Tier 3 - DHW	\$	1,178	\$ 2,224	\$ (1,046)
15	Residential	Residential New Construction	RR Tier 4	\$	7,023	\$ 14,329	\$ (7,307)
16	Residential	Residential New Construction	RR Tier 4 - DHW	\$	145	\$ 428	\$ (282)
17	Residential	Residential New Construction	Tier 1 - DHW	\$	6,022	\$ 17,144	\$ (11,122)
18	Residential	Residential New Construction	Tier 2	\$	405,006	\$ 562,965	\$ (157,959)
19	Residential	Residential New Construction	Tier 2 - DHW	\$	21,092	\$ 44,007	\$ (22,915)
20	Residential	Residential New Construction	Tier 3	\$	162,689	\$ 261,546	\$ (98,857)
21	Residential	Residential New Construction	Tier 3 - DHW	\$	8,472	\$ 13,610	\$ (5,137)
22	Residential	Residential New Construction	Tier 4	\$	11,310	\$ 25,525	\$ (14,215)
23	Residential	Residential New Construction	Tier 4 - DHW	\$	621	\$ 918	
24	Residential	Residential New Construction	Adaptive Reuse	\$	49,948	\$ 127,189	\$ (77,241)
25	Income Eligible	Single Family - Income Eligible Services	HEATSYSTEM	\$	691,096		
26	Income Eligible	Single Family - Income Eligible Services	WEATHER	\$	2,891,777		
27	Commercial & Industrial	Large Commercial Retrofit	Custom: SEM	Ś	319,402		\$ (179,005)
28	Commercial & Industrial	Large Commercial New Construction	COOKING-CONVECTION OVEN 1	Ś	3,837		
29	Commercial & Industrial	Large Commercial New Construction	COOKING-CONVECTION OVEN 1- Upstream	Ś	124,632		

29 Commercial & Industrial Large Commercial New Construction COOKING-CONVECTION OVEN 1- Upstream \$ 124,632 \$ 154,898 \$ (30,265) Notes: Cost of Supply and Cost of Energy Efficiency sums the relevant categories as indicated in Table 36 (Bates 117) of the Three-Year Energy Efficiency Plan Filing, with additional calculations as indicated in the response text to PUC 1-47 in order to calculate at measure-level.

PUC 1-48

Request:

When a natural gas customer receives a rebate for weatherization services, is that rebate funded solely by the gas energy efficiency budget? Are there electric savings that result from the weatherization? If so, how are those savings claimed? the cooling savings from weatherization?

Response:

Natural gas weatherization services are funded solely by the gas energy efficiency budget. Electric savings that result from weatherization are a secondary benefit that contribute to the gas portfolio benefit cost ratio, but are not claimed as electric savings in the electric portfolio.

PUC 1-49

Request:

Please reproduce each of the Tables in Attachments 1 and 2 of Schedule A of the 2021-23 EE Plan with a column added 1) between "Total benefit" and "Program Implementation Expenses") to show the amount of benefits for each row and 2) a column added between "Program Implementation Expenses" and "Customer Contribution" to show the amount of expenses that are used in calculating the "Planned Net Benefits (ex-Macroeconomic Multiplier)" in the Performance Incentive Mechanism.

Response:

Please see PUC Attachment 1-49-1 for the reproduction of the tables in Attachment 2 of Schedule A of the 2021-23 EE plan for electric.

Please see PUC Attachment 1-49-2 for the reproduction of the tables in Attachment 2 of Schedule A of the 2021-23 EE plan for gas.

PUC 1-49-1 THE NARRAGANSETT ELECTRIC COMPANY d/b/a NATIONAL GRID 2021 RHODE ISLAND BENEFIT COST TEST

Summary of Benefit, Expenses, Evaluation Costs (\$000)

Large Commercial & Industrial	Rhode Island Benefit/Cost	Total Benefit	Total Benefit Ex. Macroeconomic Multiplier	Program Implementation Expenses	Budget for Performance Incentive Calculation	Customer Contribution	Shareholder Incentive
Commercial New Construction	6.24	\$58,649.1	\$32,213.6	\$8,500.17	\$8,467.77	\$893.1	
Commercial Retrofit	7.52	\$329,117.0	\$146,524.0	\$31,930.24	\$31,878.40		
Direct Install	3.35	\$36,190.8	\$18,690.2	\$8,883.56	\$8,883.56		
Commercial ConnectedSolutions	9.85	\$29,465.0	\$0.0	\$2,990.11	\$0.00		
Community Based Initiatives - C&I			,	\$74.53	\$74.53		
Commercial Pilots				\$0.00	\$0.00		
C&I Financing				\$5,000.00	\$5,000.00		
Commercial Workforce Development				\$468.69	\$468.69		
C&I SUBTOTAL	6.05	\$453,421.9	\$197,427.7	\$57,847.3	\$54,773.0	\$14,637.7	\$2,475.0
	•					•	
Low Income							
Low Income Single Family	2.65	\$36,501.8	\$24,668.8	\$13,759.32	\$13,759.32	\$0.0	
Low Income Multi Family	1.76	\$8,502.4	\$2,753.7	\$4,830.80	\$4,830.80	\$0.0	
Income Eligible Workforce Development				\$114.19	\$114.19		
Low Income Residential SUBTOTAL	2.27	\$45,004.2	\$27,422.6	\$18,704.3	\$18,704.3	\$0.0	\$1,100.0
Residential Programs	1						
Residential New Construction	2.69	\$6,445.3	\$4,283.2	\$1,544.34	\$1,537.85	\$855.7	
EnergyStar HVAC	2.77	\$13,306.5	\$8,353.8	\$3,487.80	\$3,487.80		
EnergyWise	1.89	\$33,615.8	\$17,774.8	\$17,033.34	\$17,033.34		
EnergyWise Multi Family	2.44	\$8,756.5	\$4,660.4	\$3,056.84	\$3,056.84	\$532.0	
Behavior Feedback	3.23	\$8,530.8	\$5,889.1	\$2,641.68	\$2,641.68		
EnergyStar Lighting	3.29	\$14,018.2	\$5,631.3	\$5,274.75	\$5,274.75		
EnergyStar Appliances	2.84	\$11,372.7	\$7,297.3	\$2,681.24	\$2,681.24		
Residential ConnectedSolutions	6.13	\$12,018.6	\$0.0	\$1,959.72	\$0.00		
Energy Efficiency Education	0.20	7 = 7 = 6 · 6	70.0	\$40.00	\$40.00		
Community Based Initiatives - Residential				\$226.16	\$226.16		
Residential Pilots				\$0.00	\$0.00		
Comprehensive Marketing - Residential				\$332.71	\$332.71		
Residential Workforce Development				\$284.72	\$284.72		
Non-low income Residential SUBTOTAL	2.44	\$108,064.5	\$53,889.9	\$38,563.3	\$36,597.1		\$1,925.0
			. , ,				
OER				\$845.56			
EERMC				\$845.56			
TOTAL	4.31	\$606,490.7	\$278,740.2	\$116,806.0	\$110,074.4	\$18,435.8	\$5,500.0

⁽¹⁾ The ConnectedSolutions programs are not covered by the proposed EE Performance Incentive Mechanism.

^{(2) &}quot;Budget for Performance Incentive Calculation" includes the budget categories used to calculate the "Planned Net Benefits (ex-Macroeconomic Multiplier)" in the Performance Incentive Mechanism. This column removes planned spending on assessments that are included in programmatic line items, pilots, and OER and EERMC line items. Costs of the ConnectedSolutions programs are also omitted as those programs are not covered by the proposed EE Performance Incentive Mechanism.

PUC 1-49-1 THE NARRAGANSETT ELECTRIC COMPANY d/b/a NATIONAL GRID 2022 RHODE ISLAND BENEFIT COST TEST

Summary of Benefit, Expenses, Evaluation Costs (\$000)

Laura Camus anial 8 Industrial	Rhode Island Benefit/Cost	Total Benefit	Total Benefit Ex. Macroeconomic Multiplier	Program Implementation Expenses	Budget for Performance Incentive Calculation	Customer Contribution	Shareholder Incentive
Large Commercial & Industrial Commercial New Construction	6.02	\$65,945.8	Ć2F 22F 4	\$9,845.88	Ć0 012 40	\$1,111.4	
Commercial Retrofit	5.93	\$360,199.2	\$35,325.1 \$150,628.9	\$9,845.88	\$9,813.48 \$44,208.63	\$1,111.4	
Direct Install	3.48	\$36,058.5	\$130,628.9	\$8,548.65	\$8,548.65	\$10,430.7	
Commercial ConnectedSolutions	9.90	\$36,058.5	\$19,217.7	\$3,534.38	\$8,548.65		
Community Based Initiatives - C&I	9.90	\$34,961.4	\$0.0	\$3,534.36	\$84.96	\$0.0	
Commercial Pilots				\$0.00	\$0.00		
C&I Financing				\$5,000.00	\$5,000.00		
Commercial Workforce Development				\$5,000.00	\$5,000.00		
C&I SUBTOTAL	5.31	\$497,185.0	\$205,171.8	\$71,819.0	\$68,200.4	\$19,353.6	\$2,475.0
COLOUR	5.51	Ş437,183.U	J203,171.0	371,813.0	700,200.4	Ş13,333.0	\$2,475.0
Low Income							
Low Income Single Family	2.67	\$40,243.8	\$27,258.3	\$15,099.47	\$15,099.47	\$0.0	
Low Income Multi Family	1.83	\$7,715.5	\$2,700.8	\$4,214.05	\$4,214.05	\$0.0	
Income Eligible Workforce Development		. ,	, ,	\$156.18	\$156.18		
Low Income Residential SUBTOTAL	2.33	\$47,959.4	\$29,959.1	\$19,469.7	\$19,469.7	\$0.0	\$1,100.0
Residential Programs Residential New Construction	2.87	\$6,408.7	\$4,421.4	\$1,419.48	\$1,413.00	\$812.8	
EnergyStar HVAC	2.84	\$17,605.1	\$11,018.7	\$4,638.34	\$4,638.34	\$1,560.3	
EnergyWise	1.92	\$35,700.9	\$18,952.8	\$18,008.68	\$18,008.68		
EnergyWise Multi Family	2.39	\$9,368.7	\$4,569.7	\$3,581.30	\$3,581.30	·	
Behavior Feedback	1.62	\$8,360.3	\$5,736.3	\$2,624.01	\$2,624.01	\$2,540.7	
EnergyStar Lighting	N/A	\$0.0	\$0.0		\$0.00		
EnergyStar Appliances	2.88	\$12,053.8	\$7,719.0	\$2,851.88	\$2,851.88	\$1,340.1	
Residential ConnectedSolutions	7.40	\$18,715.0	\$0.0	\$2,527.45	\$0.00	\$0.0	
Energy Efficiency Education			•	\$40.00	\$40.00		
Community Based Initiatives - Residential				\$257.46	\$257.46		
Residential Pilots				\$0.00	\$0.00		
Comprehensive Marketing - Residential				\$507.71	\$507.71		
Residential Workforce Development				\$246.06	\$246.06		
Non-low income Residential SUBTOTAL	2.36	\$108,212.5	\$52,417.9	\$36,702.4	\$34,168.4	\$7,171.4	\$1,925.0
OER				\$1,188.44			
EERMC				\$1,188.44			
TOTAL	4.02	\$653,356.8	\$287,548.8	\$130,367.9	\$121,838.5	\$26,525.0	\$5,500.0

⁽¹⁾ The ConnectedSolutions programs are not covered by the proposed EE Performance Incentive Mechanism.

^{(2) &}quot;Budget for Performance Incentive Calculation" includes the budget categories used to calculate the "Planned Net Benefits (ex-Macroeconomic Multiplier)" in the Performance Incentive Mechanism. This column removes planned spending on assessments that are included in programmatic line items, pilots, and OER and EERMC line items. Costs of the ConnectedSolutions programs are also omitted as those programs are not covered by the proposed EE Performance Incentive Mechanism.

PUC 1-49-1 THE NARRAGANSETT ELECTRIC COMPANY d/b/a NATIONAL GRID 2022 RHODE ISLAND BENEFIT COST TEST - HIGH SCENARIO

Summary of Benefit, Expenses, Evaluation Costs (\$000)

Large Commercial & Industrial	Rhode Island Benefit/Cost	Total Benefit	Total Benefit Ex. Macroeconomic Multiplier	Program Implementation Expenses	Budget for Performance Incentive Calculation	Customer Contribution	Shareholder Incentive
Commercial New Construction	6.02	\$69,243.1	\$37,091.4	\$10,338.2	\$10,304.16	\$1,167.0	
Commercial Retrofit	5.96	\$379,636.2		\$46,473.5	\$46,419.06		
Direct Install	3.48	\$37,861.5	\$20,178.6	\$8,976.1	\$8,976.08	\$1,902.1	
Commercial ConnectedSolutions	9.90	\$47,224.9	\$0.0	\$4,771.4	\$0.00	\$0.0	
Community Based Initiatives - C&I			·	\$89.2	\$89.21		
Commercial Pilots				\$0.0	\$0.00		
C&I Financing				\$5,250.0	\$5,250.00		
Commercial Workforce Development				\$571.9	\$571.86		
C&I SUBTOTAL	5.38	\$533,965.7	\$215,161.0	\$76,470.2	\$71,610.4	\$20,321.2	\$2,475.0
I I	I						
Low Income	2.07	Ć42 2EC 0	¢20,024,2	Ć1E 0E4 4	\$15,854.45	ćoo	
Low Income Single Family	2.67	\$42,256.0 \$8,101.3		\$15,854.4			
Low Income Multi Family	1.83	\$8,101.3	\$2,835.9	\$4,424.8	\$4,424.75		
Income Eligible Workforce Development	2.24	450 055 0	404 457 4	\$164.0	\$163.99		44 400 0
Low Income Residential SUBTOTAL	2.34	\$50,357.3	\$31,457.1	\$20,443.2	\$20,443.2	\$0.0	\$1,100.0
Residential Programs							
Residential New Construction	2.87	\$6,729.1	\$4,642.5	\$1,490.5	\$1,483.65	\$853.4	
EnergyStar HVAC	2.84	\$18,485.4	\$11,569.6	\$4,870.3	\$4,870.26	\$1,638.3	
EnergyWise	1.92	\$37,486.0	\$19,900.5	\$18,909.1	\$18,909.11	\$614.7	
EnergyWise Multi Family	2.39	\$9,837.1	\$4,798.2	\$3,760.4	\$3,760.37	\$348.6	
Behavior Feedback	1.62	\$8,360.3	\$5,736.3	\$2,624.0	\$2,624.01	\$2,540.7	
EnergyStar Lighting	N/A	\$0.0	\$0.0	\$0.0	\$0.00	\$0.0	
EnergyStar Appliances	2.88	\$12,656.5	\$8,104.9	\$2,994.5	\$2,994.47	\$1,407.2	
Residential ConnectedSolutions	7.40	\$18,715.0	\$0.0	\$2,527.4	\$0.00	\$0.0	
Energy Efficiency Education				\$42.0	\$42.00		
Community Based Initiatives - Residential				\$270.3	\$270.34		
Residential Pilots				\$0.0	\$0.00		
Comprehensive Marketing - Residential				\$533.1	\$533.09		
Residential Workforce Development				\$258.4	\$258.36		
Non-low income Residential SUBTOTAL	2.36	\$112,269.4	\$54,752.0	\$38,279.9	\$35,745.7	\$7,402.9	\$1,925.0
		-					
OER				\$1,247.9			
EERMC				\$1,247.9			
TOTAL	4.08	\$696,592.4	\$301,370.0	\$137,689.1	\$127,799.2	\$27,724.2	\$5,500.0

⁽¹⁾ The ConnectedSolutions programs are not covered by the proposed EE Performance Incentive Mechanism.

^{(2) &}quot;Budget for Performance Incentive Calculation" includes the budget categories used to calculate the "Planned Net Benefits (ex-Macroeconomic Multiplier)" in the Performance Incentive Mechanism. This column removes planned spending on assessments that are included in programmatic line items, pilots, and OER and EERMC line items. Costs of the ConnectedSolutions programs are also omitted as those programs are not covered by the proposed EE Performance Incentive Mechanism.

PUC 1-49-1 THE NARRAGANSETT ELECTRIC COMPANY d/b/a NATIONAL GRID 2023 RHODE ISLAND BENEFIT COST TEST - BASE CASE

Summary of Benefit, Expenses, Evaluation Costs (\$000)

Large Commercial & Industrial	Rhode Island Benefit/Cost	Total Benefit	Total Benefit Ex. Macroeconomic Multiplier	Program Implementation Expenses	Budget for Performance Incentive Calculation	Customer Contribution	Shareholder Incentive
Commercial New Construction	5.90	\$58,831.6	\$30,957.6	\$8,962.7	\$8,930.31	\$1,004.6	
Commercial Retrofit	6.23	\$404,700.2	\$165,539.4	\$47,649.2	\$47,597.33	\$17,355.9	
Direct Install	3.49	\$39,102.9	\$20,927.8	\$9,225.9	\$9,225.95	\$1,969.8	
Commercial ConnectedSolutions	9.83	\$40,431.6	\$0.0	\$4,111.5	\$0.00	\$0.0	
Community Based Initiatives - C&I				\$93.5	\$93.46		
Commercial Pilots				\$0.0	\$0.00		
C&I Financing				\$5,000.0	\$5,000.00		
Commercial Workforce Development				\$581.0	\$580.99		
C&I SUBTOTAL	5.52	\$543,066.4	\$217,424.8	\$75,623.8	\$71,428.0	\$20,330.3	\$2,475.0
Low Income		1		r		1	
Low Income Single Family	2.68	, , , , , , ,	\$30,324.1	\$16,622.3	\$16,622.27	\$0.0	
Low Income Multi Family	1.76	\$8,009.3	\$2,585.9	\$4,557.5	\$4,557.46	\$0.0	
Income Eligible Workforce Development				\$172.8	\$172.82		
Low Income Residential SUBTOTAL	2.34	\$52,628.6	\$32,910.0	\$21,352.5	\$21,352.5	\$0.0	\$1,100.0
Residential Programs							
Residential New Construction	2.93	\$6,919.4	\$4,815.5	\$1,502.7	\$1,496.27	\$860.2	
EnergyStar HVAC	3.04	\$21,610.2	\$13,036.1	\$6,038.1	\$6,038.11	\$1,064.5	
EnergyWise	1.91	\$43,071.3	\$22,875.1	\$21,716.3	\$21,716.29	\$778.3	
EnergyWise Multi Family	2.35	\$9,056.7	\$4,335.3	\$3,523.5	\$3,523.48	\$332.0	
Behavior Feedback	1.62	\$8,349.1	\$5,725.1	\$2,624.0	\$2,624.00	\$2,540.7	
EnergyStar Lighting	N/A	\$0.0	\$0.0	\$0.0	\$0.00	\$0.0	
EnergyStar Appliances	2.93	\$15,971.5	\$10,479.1	\$3,613.4	\$3,613.39	\$1,830.9	
Residential ConnectedSolutions	8.50	\$26,059.7	\$0.0	\$3,064.8	\$0.00	\$0.0	
Energy Efficiency Education				\$40.0	\$40.00		
Community Based Initiatives - Residential				\$283.0	\$282.95		
Residential Pilots				\$0.0	\$0.00		
Comprehensive Marketing - Residential				\$507.7	\$507.71		
Residential Workforce Development				\$303.8	\$303.78		
Non-low income Residential SUBTOTAL	2.49	\$131,037.8	\$61,266.2	\$43,217.3	\$40,146.0	\$7,406.7	\$1,925.0
	1	I				<u> </u>	
OER				\$1,355.4			
EERMC		4		\$1,355.4		4	
TOTAL	4.13	\$726,732.8	\$311,601.1	\$142,904.5	\$132,926.6	\$27,737.0	\$5,500.0

⁽¹⁾ The ConnectedSolutions programs are not covered by the proposed EE Performance Incentive Mechanism.

^{(2) &}quot;Budget for Performance Incentive Calculation" includes the budget categories used to calculate the "Planned Net Benefits (ex-Macroeconomic Multiplier)" in the Performance Incentive Mechanism. This column removes planned spending on assessments that are included in programmatic line items, pilots, and OER and EERMC line items. Costs of the ConnectedSolutions programs are also omitted as those programs are not covered by the proposed EE Performance Incentive Mechanism.

PUC 1-49-1 THE NARRAGANSETT ELECTRIC COMPANY d/b/a NATIONAL GRID 2023 RHODE ISLAND BENEFIT COST TEST - HIGH SCENARIO

Summary of Benefit, Expenses, Evaluation Costs (\$000)

Large Commercial & Industrial	Rhode Island Benefit/Cost	Total Benefit	Total Benefit Ex. Macroeconomic Multiplier	Program Implementation Expenses	Budget for Performance Incentive Calculation	Customer Contribution	Shareholder Incentive
Commercial New Construction	5.90	\$66,009.1	\$34,734.4	\$10,056.2	\$10,019.81	\$1,127.1	
Commercial Retrofit	6.26	\$456,852.9	\$184,856.5	\$53,462.4	\$53,404.22	\$19,473.4	
Direct Install	3.49	\$43,873.5	\$23,481.0	\$10,351.5	\$10,351.52	\$2,210.1	
Commercial ConnectedSolutions	9.83	\$62,115.1	\$0.0	\$6,316.5	\$0.00	\$0.0	
Community Based Initiatives - C&I				\$104.9	\$104.86		
Commercial Pilots				\$0.0	\$0.00		
C&I Financing				\$5,610.0	\$5,610.00		
Commercial Workforce Development				\$651.9	\$651.87		
C&I SUBTOTAL	5.62	\$628,850.6	\$243,071.9	\$86,553.3	\$80,142.3	\$22,810.6	\$2,475.0
Low Income							
Low Income Single Family	2.68	\$50,062.9	\$34,023.7	\$18,650.2	\$18,650.20	\$0.0	
Low Income Multi Family	1.76	\$8,986.4	\$2,901.4	\$5,113.5	\$5,113.47	\$0.0	
Income Eligible Workforce Development				\$193.9	\$193.90		
Low Income Residential SUBTOTAL	2.36	\$59,049.3	\$36,925.1	\$23,957.6	\$23,957.6	\$0.0	\$1,100.0
Residential Programs	<u> </u>						
Residential New Construction	2.93	\$7,763.6	\$5,403.0	\$1,686.1	\$1,678.81	\$965.2	
EnergyStar HVAC	3.04	\$24,246.7	\$14,626.5	\$6,774.8	\$6,774.76		
EnergyWise	1.91	\$48,326.0	\$25,665.9	\$24,365.7	\$24,365.69		
EnergyWise Multi Family	2.35	\$10,161.6	\$4,864.2	\$3,953.3	\$3,953.34		
Behavior Feedback	1.62	\$8,349.1	\$5,725.1	\$2,624.0	\$2,624.00		
EnergyStar Lighting	N/A	\$0.0	\$0.0	\$0.0	\$0.00		
EnergyStar Appliances	2.93	\$17,920.0	\$11,757.6	\$4,054.2	\$4,054.23	\$2,054.3	
Residential ConnectedSolutions	8.50	\$26,059.7	\$0.0	\$3,064.8	\$0.00		
Energy Efficiency Education		, -,	,	\$44.9	\$44.88		
Community Based Initiatives - Residential				\$317.5	\$317.47		
Residential Pilots				\$0.0	\$0.00		
Comprehensive Marketing - Residential				\$569.6	\$569.65		
Residential Workforce Development				\$340.8	\$340.84		
Non-low income Residential SUBTOTAL	2.47	\$142,826.6	\$68,042.3	\$47,795.8	\$44,723.7		\$1,925.0
OER				\$1,520.8			
EERMC			_	\$1,520.8			
TOTAL	4.20	\$830,726.4	\$348,039.3	\$161,348.3	\$148,823.5	\$30,810.9	\$5,500.0

Notes

(2) "Budget for Performance Incentive Calculation" includes the budget categories used to calculate the "Planned Net Benefits (ex-Macroeconomic Multiplier)" in the Performance Incentive Mechanism. This column removes planned spending on assessments that are included in programmatic line items, pilots, and OER and EERMC line items. Costs of the ConnectedSolutions programs are also omitted as those programs are not covered by the proposed EE Performance Incentive Mechanism.

⁽¹⁾ The ConnectedSolutions programs are not covered by the proposed EE Performance Incentive Mechanism.

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5076 Attachment PUC 1-49-2 Page 1 of 5

PUC 1-49-2 THE NARRAGANSETT ELECTRIC COMPANY d/b/a NATIONAL GRID 2021 RHODE ISLAND BENEFIT COST TEST

Summary of Benefit, Expenses, Evaluation Costs (\$000)

Large Commercial & Industrial	Rhode Island Benefit/Cost	Total Benefit	Total Benefit Ex. Macroeconomic Multiplier	Program Implementation Expenses	Budget for Performance Incentive Calculation	Customer Contribution	Shareholder Incentive
Large Commercial New Construction	4.86	\$12,599.7	\$8,681.7	\$2,759.2	\$2,739.7	-\$166.4	
Large Commercial Retrofit	5.27	\$45,068.7	\$31,990.8	\$5,169.1	\$5,143.2	\$3,387.0	
Small Business Direct Install	3.83	\$1,539.9	\$957.8	\$332.7	\$332.7	\$69.4	
Commercial & Industrial Multifamily	4.75	\$4,922.8	\$3,121.2	\$953.2	\$953.2	\$84.0	
Comprehensive Marketing - Commercial and Industrial				\$0.0	\$0.0		
Commercial Pilots				\$215.8	\$0.0		
Community Based Initiatives - C&I				\$24.8	\$24.8		
Finance Costs				\$0.0	\$0.0		
Commercial Workforce Development				\$164.5	\$164.5		
Commercial & Industrial Subtotal	4.94	\$64,131.1	\$44,751.6	\$9,619.3	\$9,358.1	\$3,374.0	\$680.0
Income Eligible Programs							
Single Family - Income Eligible Services	2.94	\$19,830.4	\$13,159.1	\$6,738.8	\$6,738.8	\$0.0	
Income Eligible Multifamily	4.21	\$13,690.7	\$8,646.9	\$3,254.1	\$3,254.1	\$0.0	
Income Eligible Workforce Development		7 -2/22	70,010.0	\$49.6	\$49.6	7	
Income Eligible Residential Subtotal	3.34	\$33,521.1	\$21,805.9	\$10,042.5	\$10,042.5	\$0.0	\$425.0
Residential Programs							
Energy Star® HVAC	1.66	\$13,615.7	\$10,567.1	\$3,673.0	\$3,673.0	\$4,539.3	
EnergyWise	2.01	\$21,873.6	\$11,709.7	\$10,063.2	\$10,063.2	\$816.5	
EnergyWise Multifamily	4.70	\$8,630.2	\$6,198.9	\$1,491.6	\$1,491.6	\$344.0	
Home Energy Reports	4.05	\$1,825.1	\$1,347.2	\$450.9	\$450.9	\$0.0	
Residential New Construction	1.02	\$1,378.3	\$1,229.8	\$674.8	\$655.4	\$670.9	
Comprehensive Marketing - Residential				\$64.8	\$64.8		
Residential Pilots				\$0.0	\$0.0		
Community Based Initiatives - Residential				\$75.8	\$75.8		
Residential Workforce Development				\$118.3	\$118.3		
Non-Income Eligible Residential Subtotal	2.06	\$47,322.9	\$31,052.7	\$16,612.4	\$16,593.0	\$6,370.8	\$595.0
FERMC				\$321.2	\$0.00		
OER				\$321.2	\$0.00		
Grand Total	3.00	\$144,975.1	\$97,610.2	\$36,916.6	\$35,993.6	\$9,744.8	\$1,700.0

^{(1) &}quot;Budget for Performance Incentive Calculation" includes the budget categories used to calculate the "Planned Net Benefits (ex-Macroeconomic Multiplier)" in the Performance Incentive Mechanism. This column removes planned spending on assessments that are included in programmatic line items, pilots, and OER and EERMC line items.

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5076 Attachment PUC 1-49-2 Page 2 of 5

PUC 1-49-2 THE NARRAGANSETT ELECTRIC COMPANY d/b/a NATIONAL GRID 2022 RHODE ISLAND BENEFIT COST TEST - BASE CASE

Summary of Benefit, Expenses, Evaluation Costs (\$000)

Large Commercial & Industrial	Rhode Island Benefit/Cost	Total Benefit	Total Benefit Ex. Macroeconomic Multiplier	Program Implementation Expenses	Budget for Performance Incentive Calculation	Customer Contribution	Shareholder Incentive
Large Commercial New Construction	5.52	\$15,640.5	\$11,358.0	\$3,015.9	\$2,996.4	-\$184.0	
Large Commercial Retrofit	5.52	\$47,717.7	\$34,402.3	\$5,263.0	\$5,237.1	\$3,383.9	
Small Business Direct Install	3.33	\$2,548.0	\$1,446.5	\$629.4	\$629.4	\$136.5	
Commercial & Industrial Multifamily	4.56	\$5,066.7	\$3,126.1	\$1,026.8	\$1,026.8	\$84.0	
Comprehensive Marketing - Commercial and Industrial				\$0.0	\$0.0		
Commercial Pilots				\$219.0	\$0.0		
Community Based Initiatives - C&I				\$28.3	\$28.3		
Finance Costs				\$0.0	\$0.0		
Commercial Workforce Development				\$55.6	\$55.6		
Commercial & Industrial Subtotal	4.95	\$70,972.9	\$50,332.8	\$10,238.0	\$9,973.6	\$3,420.4	\$680.0
Income Eligible Programs							
Single Family - Income Eligible Services	2.95	\$21,786.3	\$14,482.0	\$7,378.1	\$7,378.1	\$0.0	
Income Eligible Multifamily	4.24	\$13,653.9	\$8,657.4	\$3,223.6	\$3,223.6	\$0.0	
Income Eligible Workforce Development				\$84.4	\$84.4	·	
Income Eligible Residential Subtotal	3.19	\$35,440.3	\$23,139.4	\$10,686.1	\$10,686.1	\$0.0	\$425.0
Residential Programs							
Energy Star® HVAC	1.66	\$17,385.5	\$13,594.1	\$4,568.0	\$4,568.0	\$5,924.8	
EnergyWise	2.03	\$22,169.7	\$12,063.9	\$10,005.8	\$10,005.8	\$903.1	
EnergyWise Multifamily	4.71	\$8,629.1	\$6,205.3	\$1,487.0	\$1,487.0	\$344.0	
Home Energy Reports	4.10	\$1,807.3	\$1,339.5	\$441.3	\$441.3	\$0.0	
Residential New Construction	1.10	\$1,292.4	\$1,158.3	\$609.6	\$590.1	\$562.0	
Comprehensive Marketing - Residential			. , , , , , , , , , , , , , , , , , , ,	\$79.8	\$79.8		
Residential Pilots				\$0.0	\$0.0		
Community Based Initiatives - Residential				\$86.3	\$86.3		
Residential Workforce Development				\$137.3	\$137.3		
Non-Income Eligible Residential Subtotal	1.99	\$51,284.0	\$34,361.1	\$17,414.9	\$17,395.5	\$7,733.9	\$595.0
EERMC				\$400.0	\$0.00		
OER				\$400.0	\$0.00		
Grand Total	3.03	\$157,697.1	\$107,833.3	\$39,139.2	\$38,055.3	\$11,154.3	\$1,700.0

^{(1) &}quot;Budget for Performance Incentive Calculation" includes the budget categories used to calculate the "Planned Net Benefits (ex-Macroeconomic Multiplier)" in the Performance Incentive Mechanism. This column removes planned spending on assessments that are included in programmatic line items, pilots, and OER and EERMC line items.

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5076 Attachment PUC 1-49-2 Page 3 of 5

PUC 1-49-2 THE NARRAGANSETT ELECTRIC COMPANY d/b/a NATIONAL GRID 2022 RHODE ISLAND BENEFIT COST TEST - HIGH SCENARIO

Summary of Benefit, Expenses, Evaluation Costs (\$000)

Large Commercial & Industrial	Rhode Island Benefit/Cost	Total Benefit	Total Benefit Ex. Macroeconomic Multiplier	Program Implementation Expenses	Budget for Performance Incentive Calculation	Customer Contribution	Shareholder Incentive
Large Commercial New Construction	5.52	\$17,986.6	\$13,061.7	\$3,468.2	\$3,445.9	-\$211.6	
Large Commercial Retrofit	5.52	\$54,875.3	\$39,562.6	\$6,052.5	\$6,022.7	\$3,891.5	
Small Business Direct Install	3.33	\$2,930.2	\$1,663.4	\$723.9	\$723.9	\$156.9	
Commercial & Industrial Multifamily	4.56	\$5,826.7	\$3,595.0	\$1,180.8	\$1,180.8	\$96.6	
Comprehensive Marketing - Commercial and Industrial				\$0.0	\$0.0		
Commercial Pilots				\$251.9	\$0.0		
Community Based Initiatives - C&I				\$32.6	\$32.6		
Finance Costs				\$0.0	\$0.0		
Commercial Workforce Development				\$63.9	\$63.9		
Commercial & Industrial Subtotal	4.98	\$81,618.8	\$57,882.8	\$11,773.7	\$11,469.7	\$3,933.5	\$680.0
Income Eligible Programs							
Single Family - Income Eligible Services	2.95	\$25,054.3	\$16,654.3	\$8,484.8	\$8,484.8	\$0.0	
Income Eligible Multifamily	4.24	\$15,702.0	\$9,956.0	\$3,707.1	\$3,707.1	\$0.0	
Income Eligible Workforce Development				\$97.1	\$97.1		
Income Eligible Residential Subtotal	3.21	\$40,756.3	\$26,610.3	\$12,289.0	\$12,289.0	\$0.0	\$425.0
Residential Programs							
Energy Star® HVAC	1.66	\$19,993.4	\$15,633.2	\$5,253.2	\$5,253.2	\$6,813.6	
EnergyWise	2.03	\$25,495.1	\$13,873.4	\$11,506.6	\$11,506.6	\$1,038.5	
EnergyWise Multifamily	4.71	\$9,923.4	\$7,136.1	\$1,710.0	\$1,710.0	\$395.6	
Home Energy Reports	4.10	\$1,807.3	\$1,339.5	\$441.3	\$441.3	\$0.0	
Residential New Construction	1.10	\$1,486.3	\$1,332.1	\$701.0	\$678.7	\$646.3	
Comprehensive Marketing - Residential			. ,	\$91.7	\$91.7		
Residential Pilots				\$0.0	\$0.0		
Community Based Initiatives - Residential				\$99.2	\$99.2		
Residential Workforce Development				\$157.9	\$157.9		
Non-Income Eligible Residential Subtotal	1.99	\$58,705.5	\$39,314.3	\$19,961.0	\$19,938.6	\$8,894.0	\$595.0
EERMC				\$460.1	\$0.00	I	
OER				\$460.1	\$0.00		
Grand Total	3.04	\$181,080.6	\$123,807.4	\$44,943.9	\$43,697.4	\$12,827.4	\$1,700.0

^{(1) &}quot;Budget for Performance Incentive Calculation" includes the budget categories used to calculate the "Planned Net Benefits (ex-Macroeconomic Multiplier)" in the Performance Incentive Mechanism. This column removes planned spending on assessments that are included in programmatic line items, pilots, and OER and EERMC line items.

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5076 Attachment PUC 1-49-2 Page 4 of 5

PUC 1-49-2 THE NARRAGANSETT ELECTRIC COMPANY d/b/a NATIONAL GRID 2023 RHODE ISLAND BENEFIT COST TEST - BASE CASE

Summary of Benefit, Expenses, Evaluation Costs (\$000)

Large Commercial & Industrial	Rhode Island Benefit/Cost	Total Benefit	Total Benefit Ex. Macroeconomic Multiplier	Program Implementation Expenses	Budget for Performance Incentive Calculation	Customer Contribution	Shareholder Incentive
Large Commercial New Construction	5.62	\$17,025.6	\$12,428.2	\$3,237.6	\$3,218.2	-\$205.7	
Large Commercial Retrofit	5.73	\$61,704.8	\$45,811.5	\$6,281.9	\$6,256.0	\$4,495.1	
Small Business Direct Install	3.23	\$3,789.2	\$2,113.9	\$957.3	\$957.3	\$217.2	
Commercial & Industrial Multifamily	4.60	\$5,051.0	\$3,132.2	\$1,015.2	\$1,015.2	\$84.0	
Comprehensive Marketing - Commercial and Industrial				\$0.0	\$0.0		
Commercial Pilots				\$222.3	\$0.0		
Community Based Initiatives - C&I				\$31.2	\$31.2		
Finance Costs				\$0.0	\$0.0		
Commercial Workforce Development				\$70.1	\$70.1		
Commercial & Industrial Subtotal	5.13	\$87,570.6	\$63,485.8	\$11,815.6	\$11,548.0	\$4,590.6	\$680.0
Income Eligible Programs							
Single Family - Income Eligible Services	2.97	\$23,938.6	\$15,949.9	\$8,069.4	\$8,069.4	\$0.0	
Income Eligible Multifamily	4.25	\$13,651.0	\$8,669.9	\$3,213.7	\$3,213.7	\$0.0	
Income Eligible Workforce Development		,	, -,	\$90.2	\$90.2		
Income Eligible Residential Subtotal	3.19	\$37,589.6	\$24,619.7	\$11,373.3	\$11,373.3	\$0.0	\$425.0
Residential Programs							
Energy Star® HVAC	1.68	\$21,218.1	\$16,490.5	\$5,695.9	\$5,695.9	\$6,937.3	
EnergyWise	1.98	\$29,030.1	\$15,498.0	\$13,398.1	\$13,398.1	\$1,239.3	
EnergyWise Multifamily	4.72	\$8,629.1	\$6,212.9	\$1,482.3	\$1,482.3	\$344.0	
Home Energy Reports	4.10	\$1,807.8	\$1,340.0	\$441.3	\$441.3	\$0.0	
Residential New Construction	1.03	\$1,225.3	\$1,090.7	\$611.8	\$592.4	\$580.3	
Comprehensive Marketing - Residential				\$79.8	\$79.8		
Residential Pilots				\$0.0	\$0.0		
Community Based Initiatives - Residential				\$94.8	\$94.8		
Residential Workforce Development				\$176.9	\$176.9		
Non-Income Eligible Residential Subtotal	1.95	\$61,910.3	\$40,632.0	\$21,980.9	\$21,961.5	\$9,100.9	\$595.0
EERMC				\$468.4	\$0.00	1	
OER				\$468.4	\$0.00		
Grand Total	3.04	\$187,070.5	\$128,737.6	· · · · · · · · · · · · · · · · · · ·	\$44,882.8	\$13,691.5	\$1,700.0

^{(1) &}quot;Budget for Performance Incentive Calculation" includes the budget categories used to calculate the "Planned Net Benefits (ex-Macroeconomic Multiplier)" in the Performance Incentive Mechanism. This column removes planned spending on assessments that are included in programmatic line items, pilots, and OER and EERMC line items.

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5076 Attachment PUC 1-49-2 Page 5 of 5

PUC 1-49-2 THE NARRAGANSETT ELECTRIC COMPANY d/b/a NATIONAL GRID 2023 RHODE ISLAND BENEFIT COST TEST - HIGH SCENARIO

Summary of Benefit, Expenses, Evaluation Costs (\$000)

Large Commercial & Industrial	Rhode Island Benefit/Cost	Total Benefit	Total Benefit Ex. Macroeconomic Multiplier	Program Implementation Expenses	Budget for Performance Incentive Calculation	Customer Contribution	Shareholder Incentive
Large Commercial New Construction	5.62	\$21,346.4	\$15,582.2	\$4,059.3	\$4,034.9	-\$257.9	
Large Commercial Retrofit	5.73	\$77,364.2	\$57,437.6	\$7,876.1	\$7,843.6	\$5,635.8	
Small Business Direct Install	3.23	\$4,750.8	\$2,650.3	\$1,200.3	\$1,200.3	\$272.3	
Commercial & Industrial Multifamily	4.60	\$6,332.8	\$3,927.1	\$1,272.9	\$1,272.9	\$105.3	
Comprehensive Marketing - Commercial and Industrial				\$0.0	\$0.0		
Commercial Pilots				\$278.7	\$0.0		
Community Based Initiatives - C&I				\$39.1	\$39.1		
Finance Costs				\$0.0	\$0.0		
Commercial Workforce Development				\$87.9	\$87.9		
Commercial & Industrial Subtotal	5.17	\$109,794.2	\$79,597.2	\$14,814.2	\$14,478.6	\$5,755.6	\$680.0
Income Eligible Programs							
Single Family - Income Eligible Services	2.97	\$30,013.7	\$19,997.6	\$10,117.3	\$10,117.3	\$0.0	
Income Eligible Multifamily	4.25	\$17,115.4	\$10,870.1	\$4,029.2	\$4,029.2	\$0.0	
Income Eligible Workforce Development	4.23	\$17,115.4	\$10,670.1	\$113.1	\$113.1	Ş0.0	
Income Eligible Residential Subtotal	3.21	\$47,129.1	\$30.867.7	\$14,259.6	\$14,259.6	\$0.0	\$425.0
meonie Engine Residentiai Subtotai	3.21	347,123.1	330,807.7	314,233.0	314,233.0	30.0	3423.0
Residential Programs							
Energy Star® HVAC	1.68	\$26,602.8	\$20,675.5	\$7,141.4	\$7,141.4	\$8,697.8	
EnergyWise	1.98	\$36,397.3	\$19,431.0	\$16,798.3	\$16,798.3	\$1,553.8	
EnergyWise Multifamily	4.72	\$10,818.9	\$7,789.6	\$1,858.5	\$1,858.5	\$431.3	
Home Energy Reports	4.10	\$1,807.8	\$1,340.0	\$441.3	\$441.3	\$0.0	
Residential New Construction	1.03	\$1,536.2	\$1,367.5	\$767.1	\$742.7	\$727.6	
Comprehensive Marketing - Residential				\$100.0	\$100.0		
Residential Pilots				\$0.0	\$0.0		
Community Based Initiatives - Residential				\$118.8	\$118.8		
Residential Workforce Development				\$221.8	\$221.8		
Non-Income Eligible Residential Subtotal	1.96	\$77,163.1	\$50,603.6	\$27,447.2	\$27,422.8	\$11,410.5	\$595.0
[EERMC				\$587.2	\$0.00		
OER				\$587.2	\$0.00		
Grand Total	3.06	\$234,086.4	\$161,068.5	\$57,695.5	\$56,161.1	\$17,166.1	\$1,700.0

^{(1) &}quot;Budget for Performance Incentive Calculation" includes the budget categories used to calculate the "Planned Net Benefits (ex-Macroeconomic Multiplier)" in the Performance Incentive Mechanism. This column removes planned spending on assessments that are included in programmatic line items, pilots, and OER and EERMC line items.

PUC 1-50

Request:

Please explain the apparent discrepancy between the Performance Incentive Payout Rate in Table 24 (Bates 261) and Table G-8 (Bates 579).

Response:

In preparing this response the Company compared the Tables on Bates 261 to Tables E-8 (Bates 567) and G-8 (Bates 579) and determined Tables 23 and 24 on Bates 261 were incorrectly stated. Tables E-8 and G-8 are correct.

Corrected Tables 23 and 24 are listed below, to align with Tables E-8 and G-8.

Table 23 (Bates 261) Revision: PI Earning Rates by Sector – Electric Portfolio

Sector	Planned Net Benefits (ex-Macroeconomic Multiplier)	Design level Incentive Pool Allocation	Performance Incentive Payout Rate
Residential	\$17,292,828	\$1,925,000	11.132%
Income Eligible	\$8,718,256	\$1,100,000	12.617%
Commercial and			
Industrial	\$142,654,797	\$2,475,000	1.735%

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Table 24. (Bates 261) Revision: PI Earning Rates by Sector – Gas Portfolio

Sector	Planned Net Benefits (ex-Macroeconomic Multiplier)	Design level Incentive Pool Allocation	Performance Incentive Payout Rate
Residential	\$14,459,738	\$595,000	4.115%
Income Eligible	\$11,763,446	\$425,000	3.613%
Commercial and			
Industrial	\$35,393,410	\$680,000	1.921%

PUC 1-51

Request:

Please provide a table showing the incentive National Grid would have earned in each of the previous five years had the proposed incentive design been in place. Please compute the same assuming that National Grid met the targets each year, and showing what National Grid would have earned with the proposed incentive design with both its actual performance and having met the target. For clarity, the table should have 4 columns or rows showing:

- a. The incentive National Grid earned;
- b. The incentive National Grid could have earned if it met the targets;
- c. The incentive National Grid would have earned with the proposed incentive design and actual performance; and
- d. The incentive National Grid would have earned with the proposed incentive design and having met the target.

Response:

For this response, the Company calculated the performance for the past five years (2015 - 2019) using the earning threshold, cap on earnings and performance incentive payout rates defined in Tables E-8 (567) and G-8 (579) of the 2021 Annual Plan. In responding to this question, there are few caveats related to the analysis that are worth noting.

The analysis assumes that the payout rates as defined in the 2021 Annual Plan and shown in Column 4 of Tables E-8 (Bates 567) and G-8 (Bates 579) would have applied in earlier Annual Plan years.

In reality, however, the Company does not anticipate that payout rates will remain constant in future years (nor should they be applied on a constant basis when doing historical comparisons). Rather, the Company anticipates that design level incentive pools will typically be established as an input into each Annual Plan, and that payout rates will be calculated as a function of planned benefits and design level incentive pools, and reflective of the composition of the portfolio between sectors in each year.

Because payout rates are expected to vary by year, the comparison against incentive earnings under past design and the proposed mechanism is of limited value. Applying the proposed 2021 payout rates to past years does not account for the fact that the absolute incentive earning in a past year is influenced by the overall magnitude of net benefits, and the distribution of planned and realized benefits among sectors. The historical calculated absolute performance incentive

PUC 1-51, page 2

earnings for past years are not necessarily reflective of what would have been earned if the payout had been determined on an annual basis.

2015 – 2019 Performance Incentive Analysis under Existing and Newly-Proposed

Mechanism: Electric Energy Efficiency Portfolio

		Differency I of trong	\ F 11 .:	1) E 11 .:
	a) Earned Incentive,	b) Earned Incentive,	c) Earned Incentive,	d) Earned Incentive,
	with actual	if target met (Design	with 2021 Proposed	if target met (Design
	performance	Level Performance	Mechanism and	Level Performance
		Incentive)	actual performance	Incentive), with 2021
				Proposed
				Mechanism
2015	\$4,533,360	\$3,867,352	\$13,266,969	\$10,948,005
2016	\$4,128,034	\$3,878,087	\$7,576,453	\$6,229,628
2017	\$4,829,847	\$4,425,528	\$8,241,725	\$8,711,719
2018	\$4,940,402	\$4,346,672	\$10,481,986	\$9,023,642
2019	\$3,290,237	\$4,892,346	\$15,537,627	\$15,366,640
Source	Annual Report Table	Annual Plan Table	Source: Calculation	Source: Calculation
	E-4, for each year.	E-9 and Annual	based on 2021	based on 2021
	See sources table for	Report Table E-4, for	proposed earning	proposed earning
	links to each Annual	each year. See	rate and planned and	rate and planned and
	Report	sources table for	achieved 2015-2019	achieved 2015-2019
		links to each Annual	benefits and	benefits and
		Plan	expenditures	expenditures

PUC 1-51, page 3

 ${\bf 2015-2019\ Performance\ Incentive\ Analysis\ under\ Existing\ and\ Newly-Proposed}$

Mechanism: Natural Gas Energy Efficiency Portfolio

		1) F 11 .:		1) E 1 I
	a) Earned Incentive,	b) Earned Incentive,	c) Earned Incentive,	d) Earned Incentive,
	with actual	if target met (Design	with 2021 Proposed	if target met (Design
	performance	Level Performance	Mechanism and	Level Performance
		Incentive)	actual performance	Incentive), with 2021
				Proposed
				Mechanism
2015	\$1,387,079	\$1,119,839	\$1,510,999	\$1,213,198
2016	\$1,496,869	\$1,251,654	\$996,382	\$1,033,332
2017	\$1,633,531	\$1,387,550	\$1,202,748	\$1,160,732
2018	\$1,541,255	\$1,286,647	\$1,934,925	\$1,663,986
2019	\$1,580,119	\$1,460,570	\$1,940,704	\$1,931,726
Source	Annual Report Table	Annual Plan Table	Source: Calculation	Source: Calculation
	G-4, for each year.	G-9 and Annual	based on 2021	based on 2021
	See sources table for	Report Table G-4,	proposed earning	proposed earning
	links to each Annual	for each year. See	rate and planned and	rate and planned and
	Report	sources table for	achieved 2015-2019	achieved 2015-2019
		links to each Annual	benefits and	benefits and
		Plan	expenditures	expenditures

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Sources:

Year	Fuel	Goal or Achieved	PUC Filings
			http://www.ripuc.ri.gov/eventsactions/docket/4527-NGrid-2015-
2015	Electric	Goals	EEPP(10-31-14).pdf
			http://www.ripuc.ri.gov/eventsactions/docket/4527-NGrid-
2015	Electric	Achieved	YrEndRept(5-2-16).pdf
			http://www.ripuc.ri.gov/eventsactions/docket/4580-NGrid-2016-
2016	Electric	Goals	<u>EEPP(10-15-15).pdf</u>
			http://www.ripuc.ri.gov/eventsactions/docket/4580-NGrid-
2016	Electric	Achieved	<u>2016AnnualRept(5-1-17).pdf</u>
			http://www.ripuc.ri.gov/eventsactions/docket/4654-NGrid-EEPP-
2017	Electric	Goals	<u>2017(10-17-16).pdf</u>
			http://www.ripuc.ri.gov/eventsactions/docket/4654-NGrid-
2017	Electric	Achieved	YearEndRept2017_5-1-18.pdf
			http://www.ripuc.ri.gov/eventsactions/docket/4755-NGrid-
2018	Electric	Goals	Rev2018EEPlan_12-26-17.pdf
			http://www.ripuc.ri.gov/eventsactions/docket/4755-NGrid-Year-
2018	Electric	Achieved	End%20Report%202018%20(5-15-19).pdf
			http://www.ripuc.ri.gov/eventsactions/docket/4888-NGrid-
			<u>Updated%20E1%20and%20G1%20Tables%20(PUC%2012-3-</u>
2010	T-1		18).pdf http://www.ripuc.ri.gov/eventsactions/docket/4888-NGrid-
2019	Electric	Goals	EEPP2019(10-15-18).pdf
2010	F1	A 1 . 1	http://www.ripuc.ri.gov/eventsactions/docket/4888-NGird-Year-
2019	Electric	Achieved	End%20Report%202019%20(5-15-20).pdf
2015		G 1	http://www.ripuc.ri.gov/eventsactions/docket/4527-NGrid-2015-
2015	Gas	Goals	EEPP(10-31-14).pdf
2015	Cas	A alainead	http://www.ripuc.ri.gov/eventsactions/docket/4527-NGrid-
2015	Gas	Achieved	YrEndRept(5-2-16).pdf
2016	Gas	Goals	http://www.ripuc.ri.gov/eventsactions/docket/4580-NGrid-2016- EEPP(10-15-15).pdf
2010	Gas	Goais	http://www.ripuc.ri.gov/eventsactions/docket/4580-NGrid-
2016	Gas	Achieved	2016AnnualRept(5-1-17).pdf
2010	Jas	Acmeved	http://www.ripuc.ri.gov/eventsactions/docket/4654-NGrid-EEPP-
2017	Gas	Goals	2017(10-17-16).pdf
2017	Jas	Joans	http://www.ripuc.ri.gov/eventsactions/docket/4654-NGrid-
2017	Gas	Achieved	YearEndRept2017_5-1-18.pdf
2017	Gas	Acilieved	10arEnarcpi2017_3-1-10.par

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Year	Fuel	Goal or Achieved	PUC Filings
	_		http://www.ripuc.ri.gov/eventsactions/docket/4755-NGrid-
2018	Gas	Goals	<u>Rev2018EEPlan_12-26-17.pdf</u>
			http://www.ripuc.ri.gov/eventsactions/docket/4755-NGrid-Year-
2018	Gas	Achieved	End%20Report%202018%20(5-15-19).pdf
			http://www.ripuc.ri.gov/eventsactions/docket/4888-NGrid-
			<u>Updated%20E1%20and%20G1%20Tables%20(PUC%2012-3-</u>
			18).pdf http://www.ripuc.ri.gov/eventsactions/docket/4888-NGrid-
2019	Gas	Goals	EEPP2019(10-15-18).pdf
			http://www.ripuc.ri.gov/eventsactions/docket/4888-NGird-Year-
2019	Gas	Achieved	End%20Report%202019%20(5-15-20).pdf

PUC 1-52

Request:

Please list in a table all measures, programs, pilots, etc. that are eligible to count toward the System Efficiency performance incentive. Include columns that show the demand reduction expected, the performance incentive, total costs, total benefits, and the benefit-to-cost ratio. Please include the expected shareholder incentive from the System Efficiency performance incentive in total costs.

Response:

Please see Attachment PUC 1-52 for the requested table.

Attachment PUC 1-52-1

PUC 1-52-1

	Demand Response Measure	Demand Reduction Expected	Performance Incentive	Incer	ntive Costs	_	entive Costs Other Costs	Total Costs Performance	Benefit- to-Cost
		(Annual Net Summer kW)						Incentive (1)	Ratio (2)
Ref	(a)	(b)	(c)		(d)		(e)	(f)	(g)
								(f) = (c) + (e)	
1	Thermostats New	872.61		\$	66,555				20.91
2	Thermostats Existing	2,908.70		\$	98,600				47.04
3	Batteries	1,650.00		\$	660,000				5.57
4	EVs	307.40	\$ 944,141	\$	10,585				64.73
5	Residential Subtotal	5,738.71	Ş 344,141	\$	835,740	\$	1,959,725		6.13
6	C&I Targeted Dispatch	4,000.00		\$	1,480,000				9.46
7	C&I Daily Dispatch	29,600.00		\$	1,200,000				7.43
8	C&I Subtotal	33,600.00		\$	2,680,000	\$	2,990,106		9.85
9	Total	39,338.71	\$ 944,141	\$	3,515,740	\$	4,949,831	\$ 5,893,972	

Notes:

- (1) Programmatic costs are not allocated at the measure level, so total costs and programmatic benefit-cost ratios are shown at the program or pilot level.
- (2) Benefit-Cost Ratio at the measure level omits economic benefits and programmatic non-incentive costs, as these are defined at the program level. The Benefit-Cost Ratio for the Residential Subtotal and the Commercial Subtotal include these full benefits and costs. BC ratio does not account for the System Efficiency Performance Incentive.

PUC 1-53

Request:

Please provide the status of the development of the common reporting platform for the Efficient Buildings Fund.

Response:

Since the Company's response to PUC 1-61, RIPUC Docket No. 4979, where the establishment of a data sharing platform is described, the vendor has completed the file sharing site, and OER has completed the file structure development and has uploaded relevant program documents.

Early in 2020 the Company began the assessment of the digital risk and security criteria necessary for the sharing of these documents but was delayed in furthering the process once the COVID-19 pandemic affected the United States in March. The Company intends to re-engage in this security analysis in December of 2020.

PUC 1-54

Request:

Please provide the total amount of money ratepayers have provided to support the RIIB and the total amount of money RIIB has loaned for energy efficiency projects.

Response:

This response was prepared, in part, on the basis of information provided to the Company by RIIB.

Please see the tables below, which include the amount and date of all transfers of program dollars to the Rhode Island Infrastructure Bank (RIIB) in support of the Efficient Buildings Fund (EBF) and the total EBF energy efficiency borrowers and amounts loaned.

Transfers of Program Dollars to RIIB for EBF

Year	Amount		Date of Transfer
2016	\$	1,870,447.00	11/1/2016
2017	\$	5,000,000.00	10/31/2017
2018	\$	5,000,000.00	10/12/2018
2019	\$	5,000,000.00	3/13/2019
2020	\$	5,216,666.00	10/1/2020
Total	\$	22,087,113.00	

PUC 1-54, page 2

Total EBF Energy Efficiency Borrowers and Amounts Loaned

Borrower	EE Amount Loaned
City of Cranston	\$ 2,240,000.00
Town of North Kingstown	\$ 935,000.00
City of Newport	\$ 228,038.00
Town of Westerly	\$ 1,041,965.00
Town of West Warwick	\$ 1,300,000.00
City of East Providence	\$ 24,000,000.00
Pascoag Utility District	\$ 1,419,045.00
Town of Cumberland	\$ 1,343,000.00
Town of Hopkinton	\$ 221,000.00
Town of Warren	\$ 504,000.00
City of Pawtucket	\$ 1,000,000.00
Town of Barrington	\$ 2,500,000.00
City of East Providence	\$ 2,370,000.00
City of Pawtucket	\$ 3,915,000.00
City of Providence	\$ 1,252,000.00
Town of Westerly	\$ 250,000.00
City of Warwick	\$ 3,200,000.00
Total	\$ 47,719,048.00

PUC 1-55

Request:

Please update the Company's response to PUC Post-Decision Data Request 2-3 in Docket #4979 which read:

Please complete the accompanying Excel worksheet RIIB EBF Cash Flow Statement by Funding Source.xls.

- Feel free to add columns or rows as necessary.
- The worksheet should include all funding sources for EBF (including bond proceeds)
- If there are additional funding sources for the EBF not listed, please add as appropriate.
- Include all inflows and outflows.
- The balances in the total column should equal the cash balance in the EBF at the appropriate point in time (i.e. the 12/31/19 balance on the worksheet should equal the 12/31/19 cash balance as reported in the bank statement(s).
- Please provide estimates of 2020 activity.
- Add any additional information (either as part of the worksheet or in written form) that would provide a clear, understandable and complete picture of the activity taking place within the EBF.

Please include in the update a forecast of the 2021 activity.

Response:

This response was prepared on the basis of information provided to the Company by RIIB.

Please see an updated version of the RIIB's EBF cash flow statement included here as Attachment PUC 1-55.

Rhode Island Infrastructure Bank Efficient Buildings Fund Cash Flow Amounts in \$ millions

Amounts in \$	\$ millions									
Date	Description	SBC (including legislative transfer)	Recycled Funds Available	Bond Revenue Account	Bond Debt	Bond Anticipation Note Debt	R.G.G.I funds & R.G.G.I. revolved funds	EBF Loan Balance (Committed Funds)	RIIB Contribution	Total
12/30/2015	Balance	-	-	-	-	-	-	-	-	-
4/20/2016	RGGI Transfer						3.00			3.00
7/8/2016	BAN cost of issuance					(0.15)				(0.15)
7/0/2016	6 loans closed; with BANS (ultimately 2 SBC,					(17.10)		17.10	,	0.00
7/8/2016 11/2/2016	4 bond proceeds) Transfer from NGrid EE	1.87				(17.18)		17.18	•	1.87
11/4/2016	RGGI Transfer	1.07					2.00			2.00
11/4/2010	Noon Handler						2.00			2.00
12/31/2016	Balance	1.87	0.00	0.00	0.00	(17.33)	5.00	17.18	0.00	6.73
3/1/2017	year		0.01		0.19		0.00			0.21
11/1/2017	Loan principal repayment available	0.00			0.06		0.00	(0.06)		0.00
11/1/2017	Transfer from NGrid EE	5.00								5.00
12/13/2017	5 loans closed; with BANS (ultimately, 3									
40/00/0047	RGGI, 1 SBC, 1 bond proceeds)	(2.37)				(6.02)	(2.07)	10.45		0.00
12/28/2017	1 loan closed with SBC	(0.25)						0.25		0.00
12/31/2017	Balance	4.25	0.01	0.00	0.25	(23.35)	2.93	27.83	0.00	11.93
3/1/2018	year		0.09		0.32		0.00			0.41
10/1/2018	BAN interest repayment				(0.17)					(0.17)
10/1/2018	Bond cost of issuance (and rounding)				(0.38)					(0.38)
10/5/2018	1 loan closed with SBC/N Grid funds	(2.50)						2.50)	0.00
10/16/2018	Transfer from NGrid EE	5.00								5.00
11/1/2018	Loan principal repayment available		0.48		0.76		0.02	(1.25)		0.00
	BAN principle repayment and DSRF									
11/29/2018		(5.13)			(18.86)	23.35	(0.74)		(1.22)	(2.60)
11/29/2018	1 loan closed with Bond proceeds				(0.94)			0.94	•	0.00
	Interest on Funds (R.G.G.I. approx)	0.07	0.00				0.04			0.11
12/31/2018	Balance	1.69	0.59	0.00	(19.02)	0.00	2.25	30.01	(1.22)	14.30
3/1/2019	year			0.19	0.36		0.04			0.59
				0.13	0.50		0.0 1			0.00
4/1/2019	2018A Bond debt service payment - interest			(0.28)	0.30		0.01			(0.28)
4/1/2019	2018A Bond debt service payment - principal			(0.28)			0.0 1			(0.28)
4/1/2019 10/1/2019	2018A Bond debt service payment - principal and interest	5.00			1.05		0.0 .			(0.28)
4/1/2019 10/1/2019 11/2019	2018A Bond debt service payment - principal and interest Transfer from NGrid EE	5.00		(0.28)				(2.13	1	(0.28) (0.42) 5.00
4/1/2019 10/1/2019 11/2019 11/1/2019	2018A Bond debt service payment - principal and interest Transfer from NGrid EE Loan principal repayment available	5.00		(0.28)			0.18	(2.13))	(0.28) (0.42) 5.00 0.00
4/1/2019 10/1/2019 11/2019	2018A Bond debt service payment - principal and interest Transfer from NGrid EE	5.00	0.00	(0.28)				(2.13))	(0.28) (0.42) 5.00
4/1/2019 10/1/2019 11/2019 11/1/2019 10/8/2019	2018A Bond debt service payment - principal and interest Transfer from NGrid EE Loan principal repayment available RGGI Transfer Interest on Funds (R.G.G.I approx)		0.00	(0.28)			0.18 1.00	(2.13)	(0.28) (0.42) 5.00 0.00 1.00
4/1/2019 10/1/2019 11/2019 11/1/2019 10/8/2019	2018A Bond debt service payment - principal and interest Transfer from NGrid EE Loan principal repayment available RGGI Transfer Interest on Funds (R.G.G.I approx) Balance		0.00	(0.28) (1.46) 1.96		0.00	0.18 1.00	(2.13 <u>)</u> 27.88	(1.22)	(0.28) (0.42) 5.00 0.00 1.00 0.08
4/1/2019 10/1/2019 11/2019 11/1/2019 10/8/2019 12/31/2019 3/1/2020	2018A Bond debt service payment - principal and interest Transfer from NGrid EE Loan principal repayment available RGGI Transfer Interest on Funds (R.G.G.I approx) Balance Loan interest repayment available	0.04		(0.28) (1.46) 1.96 0.40	1.05		0.18 1.00 0.04			(0.28) (0.42) 5.00 0.00 1.00 0.08 20.27
4/1/2019 10/1/2019 11/2019 11/1/2019 10/8/2019 12/31/2019 3/1/2020 4/1/2020	2018A Bond debt service payment - principal and interest Transfer from NGrid EE Loan principal repayment available RGGI Transfer Interest on Funds (R.G.G.I approx) Balance Loan interest repayment available 2018A Bond debt service payment - interest	0.04 6.73	0.59	(0.28) (1.46) 1.96	1.05		0.18 1.00 0.04	27.88	(1.22)	(0.28) (0.42) 5.00 0.00 1.00 0.08 20.27 0.29 (0.40)
4/1/2019 10/1/2019 11/2019 11/1/2019 10/8/2019 12/31/2019 3/1/2020 4/1/2020 5/12/2020	2018A Bond debt service payment - principal and interest Transfer from NGrid EE Loan principal repayment available RGGI Transfer Interest on Funds (R.G.G.I approx) Balance Loan interest repayment available 2018A Bond debt service payment - interest Loan - Closed	0.04		(0.28) (1.46) 1.96 0.40	1.05		0.18 1.00 0.04 3.50	27.88	(1.22)	(0.28) (0.42) 5.00 0.00 1.00 0.08 20.27 0.29 (0.40) 0.00
4/1/2019 10/1/2019 11/2019 11/1/2019 10/8/2019 12/31/2019 3/1/2020 4/1/2020	2018A Bond debt service payment - principal and interest Transfer from NGrid EE Loan principal repayment available RGGI Transfer Interest on Funds (R.G.G.I approx) Balance Loan interest repayment available 2018A Bond debt service payment - interest Loan - Closed Loan - Closed	0.04 6.73	0.59 (0.55)	(0.28) (1.46) 1.96 0.40 0.29 (0.40)	(17.61)		0.18 1.00 0.04	27.88	(1.22)	(0.28) (0.42) 5.00 0.00 1.00 0.08 20.27 0.29 (0.40) 0.00
4/1/2019 10/1/2019 11/2019 11/1/2019 10/8/2019 12/31/2019 3/1/2020 4/1/2020 5/12/2020	2018A Bond debt service payment - principal and interest Transfer from NGrid EE Loan principal repayment available RGGI Transfer Interest on Funds (R.G.G.I approx) Balance Loan interest repayment available 2018A Bond debt service payment - interest Loan - Closed Loan - Closed Account reconciliation	0.04 6.73 (0.45)	0.59	(0.28) (1.46) 1.96 0.40	1.05		0.18 1.00 0.04 3.50	27.88	(1.22)	(0.28) (0.42) 5.00 0.00 1.00 0.08 20.27 0.29 (0.40) 0.00 0.00
4/1/2019 10/1/2019 11/2019 11/1/2019 10/8/2019 12/31/2019 3/1/2020 4/1/2020 5/12/2020	2018A Bond debt service payment - principal and interest Transfer from NGrid EE Loan principal repayment available RGGI Transfer Interest on Funds (R.G.G.I approx) Balance Loan interest repayment available 2018A Bond debt service payment - interest Loan - Closed Loan - Closed	0.04 6.73	0.59 (0.55)	(0.28) (1.46) 1.96 0.40 0.29 (0.40)	(17.61)		0.18 1.00 0.04 3.50	27.88	(1.22)	(0.28) (0.42) 5.00 0.00 1.00 0.08 20.27 0.29 (0.40) 0.00
4/1/2019 10/1/2019 11/2019 11/1/2019 10/8/2019 12/31/2019 3/1/2020 4/1/2020 5/12/2020	2018A Bond debt service payment - principal and interest Transfer from NGrid EE Loan principal repayment available RGGI Transfer Interest on Funds (R.G.G.I approx) Balance Loan interest repayment available 2018A Bond debt service payment - interest Loan - Closed Loan - Closed Account reconciliation	0.04 6.73 (0.45)	0.59 (0.55)	(0.28) (1.46) 1.96 0.40 0.29 (0.40)	(17.61)		0.18 1.00 0.04 3.50	27.88	(1.22)	(0.28) (0.42) 5.00 0.00 1.00 0.08 20.27 0.29 (0.40) 0.00 0.00
4/1/2019 10/1/2019 11/2019 11/1/2019 11/8/2019 12/31/2019 3/1/2020 4/1/2020 5/12/2020 6/1/2020	2018A Bond debt service payment - principal and interest Transfer from NGrid EE Loan principal repayment available RGGI Transfer Interest on Funds (R.G.G.I approx) Balance Loan interest repayment available 2018A Bond debt service payment - interest Loan - Closed Account reconciliation Interest on Funds (approx) Balance Loan principal repayment (not available until	0.04 6.73 (0.45)	(0.55) (0.04)	(0.28) (1.46) 1.96 0.40 0.29 (0.40) 0.06	(17.61) 0.20	0.00	0.18 1.00 0.04 3.50 (1.42)	27.88 1.00 1.42	(1.22)	(0.28) (0.42) 5.00 0.00 1.00 0.08 20.27 0.29 (0.40) 0.00 0.00 0.22 0.05
4/1/2019 10/1/2019 11/2019 11/1/2019 10/8/2019 2/1/2020 4/1/2020 5/12/2020 6/1/2020	2018A Bond debt service payment - principal and interest Transfer from NGrid EE Loan principal repayment available RGGI Transfer Interest on Funds (R.G.G.I approx) Balance Loan interest repayment available 2018A Bond debt service payment - interest Loan - Closed Loan - Closed Account reconciliation Interest on Funds (approx) Balance Loan principal repayment (not available until after bond debt service payment on 10/1)	0.04 6.73 (0.45)	(0.55) (0.04)	(0.28) (1.46) 1.96 0.40 0.29 (0.40)	(17.61) 0.20	0.00	0.18 1.00 0.04 3.50 (1.42)	27.88 1.00 1.42	(1.22)	(0.28) (0.42) 5.00 0.00 1.00 0.08 20.27 0.29 (0.40) 0.00 0.00 0.05
4/1/2019 10/1/2019 11/2019 11/1/2019 10/8/2019 12/31/2019 3/1/2020 4/1/2020 5/12/2020 6/1/2020	2018A Bond debt service payment - principal and interest Transfer from NGrid EE Loan principal repayment available RGGI Transfer Interest on Funds (R.G.G.I approx) Balance Loan interest repayment available 2018A Bond debt service payment - interest Loan - Closed Account reconciliation Interest on Funds (approx) Balance Loan principal repayment (not available until	0.04 6.73 (0.45)	(0.55) (0.04)	(0.28) (1.46) 1.96 0.40 0.29 (0.40) 0.06	(17.61) 0.20	0.00	0.18 1.00 0.04 3.50 (1.42)	27.88 1.00 1.42	(1.22)	(0.28) (0.42) 5.00 0.00 1.00 0.08 20.27 0.29 (0.40) 0.00 0.00 0.22 0.05
4/1/2019 10/1/2019 11/2019 11/1/2019 11/1/2019 10/8/2019 12/31/2019 3/1/2020 4/1/2020 6/1/2020 6/30/2020 9/1/2020	2018A Bond debt service payment - principal and interest Transfer from NGrid EE Loan principal repayment available RGGI Transfer Interest on Funds (R.G.G.I approx) Balance Loan interest repayment available 2018A Bond debt service payment - interest Loan - Closed Loan - Closed Account reconciliation Interest on Funds (approx) Balance Loan principal repayment (not available until after bond debt service payment on 10/1) Loan interest repayment (not available until	0.04 6.73 (0.45)	(0.55) (0.04)	(0.28) (1.46) 1.96 0.40 0.29 (0.40) 0.06	(17.61) 0.20	0.00	0.18 1.00 0.04 3.50 (1.42)	27.88 1.00 1.42	(1.22)	(0.28) (0.42) 5.00 0.00 1.00 0.08 20.27 0.29 (0.40) 0.00 0.22 0.05 20.43
4/1/2019 10/1/2019 11/2019 11/1/2019 11/1/2019 10/8/2019 3/1/2020 4/1/2020 6/1/2020 6/30/2020 9/1/2020	2018A Bond debt service payment - principal and interest Transfer from NGrid EE Loan principal repayment available RGGI Transfer Interest on Funds (R.G.G.I approx) Balance Loan interest repayment available 2018A Bond debt service payment - interest Loan - Closed Account reconciliation Interest on Funds (approx) Balance Loan principal repayment (not available until after bond debt service payment on 10/1) Loan interest repayment (not available until after bond debt service payment on 10/1)	0.04 6.73 (0.45) 0.03	(0.59) (0.55) (0.04)	(0.28) (1.46) 1.96 0.40 0.29 (0.40) 0.06	(17.61) 0.20	0.00	0.18 1.00 0.04 3.50 (1.42) 0.02	27.88 1.00 1.42	(1.22)	(0.28) (0.42) 5.00 0.00 1.00 0.08 20.27 0.29 (0.40) 0.00 0.00 0.22 0.05 20.43 0.00 0.30
4/1/2019 10/1/2019 11/1/2019 11/1/2019 11/1/2019 10/8/2019 12/31/2019 3/1/2020 4/1/2020 5/12/2020 6/1/2020 9/1/2020 9/1/2020	2018A Bond debt service payment - principal and interest Transfer from NGrid EE Loan principal repayment available RGGI Transfer Interest on Funds (R.G.G.I approx) Balance Loan interest repayment available 2018A Bond debt service payment - interest Loan - Closed Loan - Closed Account reconciliation Interest on Funds (approx) Balance Loan principal repayment (not available until after bond debt service payment on 10/1) Loan interest repayment (not available until after bond debt service payment on 10/1) Interest on Funds (approx)	0.04 6.73 (0.45) 0.03 6.31	0.59 (0.55) (0.04) 0.00	(0.28) (1.46) 1.96 0.40 0.29 (0.40) 0.06 0.34 2.42 0.30 3.06	(17.61) 0.20 (17.41)	0.00	0.18 1.00 0.04 3.50 (1.42) 0.02 2.10	27.88 1.00 1.42 30.30 (2.42)	(1.22)	(0.28) (0.42) 5.00 0.00 1.00 0.08 20.27 0.29 (0.40) 0.00 0.00 0.22 0.05 20.43 0.00 0.30 0.00
4/1/2019 10/1/2019 11/2019 11/1/2019 11/1/2019 10/8/2019 12/31/2019 3/1/2020 4/1/2020 5/12/2020 6/1/2020 9/1/2020 9/1/2020 9/30/2020	2018A Bond debt service payment - principal and interest Transfer from NGrid EE Loan principal repayment available RGGI Transfer Interest on Funds (R.G.G.I approx) Balance Loan interest repayment available 2018A Bond debt service payment - interest Loan - Closed Loan - Closed Account reconciliation Interest on Funds (approx) Balance Loan principal repayment (not available until after bond debt service payment on 10/1) Loan interest repayment (not available until after bond debt service payment on 10/1) Interest on Funds (approx) Balance	0.04 6.73 (0.45) 0.03 6.31 0.00 6.31	(0.59) (0.55) (0.04)	(0.28) (1.46) 1.96 0.40 0.29 (0.40) 0.06 0.34 2.42 0.30 3.06	(17.61) 0.20 (17.41)	0.00	0.18 1.00 0.04 3.50 (1.42) 0.02 2.10	27.88 1.00 1.42 30.30 (2.42)	(1.22)	(0.28) (0.42) 5.00 0.00 1.00 0.08 20.27 0.29 (0.40) 0.00 0.22 0.05 20.43 0.00 0.30 0.00 20.73
4/1/2019 10/1/2019 11/1/2019 11/1/2019 11/1/2019 10/8/2019 12/31/2019 3/1/2020 4/1/2020 5/12/2020 6/1/2020 9/1/2020 9/1/2020	2018A Bond debt service payment - principal and interest Transfer from NGrid EE Loan principal repayment available RGGI Transfer Interest on Funds (R.G.G.I approx) Balance Loan interest repayment available 2018A Bond debt service payment - interest Loan - Closed Loan - Closed Account reconciliation Interest on Funds (approx) Balance Loan principal repayment (not available until after bond debt service payment on 10/1) Loan interest repayment (not available until after bond debt service payment on 10/1) Interest on Funds (approx) Balance Transfer from NGrid EE	0.04 6.73 (0.45) 0.03 6.31	0.59 (0.55) (0.04) 0.00	(0.28) (1.46) 1.96 0.40 0.29 (0.40) 0.06 0.34 2.42 0.30 3.06	(17.61) 0.20 (17.41)	0.00	0.18 1.00 0.04 3.50 (1.42) 0.02 2.10	27.88 1.00 1.42 30.30 (2.42)	(1.22)	(0.28) (0.42) 5.00 0.00 1.00 0.08 20.27 0.29 (0.40) 0.00 0.00 0.22 0.05 20.43 0.00 0.30 0.00
4/1/2019 10/1/2019 11/2019 11/1/2019 11/1/2019 10/8/2019 12/31/2019 3/1/2020 4/1/2020 5/12/2020 6/1/2020 9/1/2020 9/1/2020 9/30/2020	2018A Bond debt service payment - principal and interest Transfer from NGrid EE Loan principal repayment available RGGI Transfer Interest on Funds (R.G.G.I approx) Balance Loan interest repayment available 2018A Bond debt service payment - interest Loan - Closed Loan - Closed Account reconciliation Interest on Funds (approx) Balance Loan principal repayment (not available until after bond debt service payment on 10/1) Loan interest repayment (not available until after bond debt service payment on 10/1) Interest on Funds (approx) Balance	0.04 6.73 (0.45) 0.03 6.31 0.00 6.31	0.59 (0.55) (0.04) 0.00	(0.28) (1.46) 1.96 0.40 0.29 (0.40) 0.06 0.34 2.42 0.30 3.06	(17.61) 0.20 (17.41)	0.00 0.00 0.00	0.18 1.00 0.04 3.50 (1.42) 0.02 2.10	27.88 1.00 1.42 30.30 (2.42)	(1.22)	(0.28) (0.42) 5.00 0.00 1.00 0.08 20.27 0.29 (0.40) 0.00 0.22 0.05 20.43 0.00 0.30 0.00 20.73
4/1/2019 10/1/2019 11/2019 11/1/2019 11/1/2019 11/1/2019 3/11/2020 4/1/2020 6/12/2020 6/30/2020 9/1/2020 9/1/2020 9/1/2020	2018A Bond debt service payment - principal and interest Transfer from NGrid EE Loan principal repayment available RGGI Transfer Interest on Funds (R.G.G.I approx) Balance Loan interest repayment available 2018A Bond debt service payment - interest Loan - Closed Loan - Closed Account reconciliation Interest on Funds (approx) Balance Loan principal repayment (not available until after bond debt service payment on 10/1) Loan interest repayment (not available until after bond debt service payment on 10/1) Interest on Funds (approx) Balance Transfer from NGrid EE 2018A Bond debt service payment - principal and interest	0.04 6.73 (0.45) 0.03 6.31 0.00 6.31 2020 5.23	0.59 (0.55) (0.04) 0.00	(0.28) (1.46) 1.96 0.40 0.29 (0.40) 0.06 0.34 2.42 0.30 3.06 (Including E	(17.61) 0.20 (17.41) (17.41)	0.00 0.00 0.00	0.18 1.00 0.04 3.50 (1.42) 0.02 2.10	27.88 1.00 1.42 30.30 (2.42)	(1.22)	(0.28) (0.42) 5.00 0.00 1.00 0.08 20.27 0.29 (0.40) 0.00 0.22 0.05 20.43 0.00 0.30 0.00 20.73
4/1/2019 10/1/2019 11/1/2019 11/1/2019 11/1/2019 11/1/2019 3/1/2020 4/1/2020 5/12/2020 6/30/2020 9/1/2020 9/1/2020 10/1/2020 10/1/2020	2018A Bond debt service payment - principal and interest Transfer from NGrid EE Loan principal repayment available RGGI Transfer Interest on Funds (R.G.G.I approx) Balance Loan interest repayment available 2018A Bond debt service payment - interest Loan - Closed Loan - Closed Account reconciliation Interest on Funds (approx) Balance Loan principal repayment (not available until after bond debt service payment on 10/1) Loan interest repayment (not available until after bond debt service payment on 10/1) Interest on Funds (approx) Balance Transfer from NGrid EE 2018A Bond debt service payment - principal and interest Loans closed as part of 2020A bond issue	0.04 6.73 (0.45) 0.03 6.31 0.00 6.31 2020 5.23 (3.20)	0.59 (0.55) (0.04) 0.00	(0.28) (1.46) 1.96 0.40 0.29 (0.40) 0.06 0.34 2.42 0.30 3.06 (Including E	(17.61) 0.20 (17.41) (17.41) Expected Ac	0.00 0.00 0.00	0.18 1.00 0.04 3.50 (1.42) 0.02 2.10	27.88 1.00 1.42 30.30 (2.42) 27.88	(1.22)	(0.28) (0.42) 5.00 0.00 1.00 0.08 20.27 0.29 (0.40) 0.00 0.22 0.05 20.43 0.00 0.30 0.00 20.73
4/1/2019 10/1/2019 11/1/2019 11/1/2019 11/1/2019 11/1/2019 3/1/2020 4/1/2020 5/12/2020 6/30/2020 9/1/2020 9/1/2020 10/1/2020 10/1/2020	2018A Bond debt service payment - principal and interest Transfer from NGrid EE Loan principal repayment available RGGI Transfer Interest on Funds (R.G.G.I approx) Balance Loan interest repayment available 2018A Bond debt service payment - interest Loan - Closed Loan - Closed Account reconciliation Interest on Funds (approx) Balance Loan principal repayment (not available until after bond debt service payment on 10/1) Loan interest repayment (not available until after bond debt service payment on 10/1) Interest on Funds (approx) Balance Transfer from NGrid EE 2018A Bond debt service payment - principal and interest Loans closed as part of 2020A bond issue	0.04 6.73 (0.45) 0.03 6.31 0.00 6.31 2020 5.23 (3.20) (8.24)	0.59 (0.55) (0.04) 0.00	(0.28) (1.46) 1.96 0.40 0.29 (0.40) 0.06 0.34 2.42 0.30 3.06 (Including E	(17.61) 0.20 (17.41) (17.41)	0.00 0.00 0.00	0.18 1.00 0.04 3.50 (1.42) 0.02 2.10 0.00 2.10	27.88 1.00 1.42 30.30 (2.42)	(1.22)	(0.28) (0.42) 5.00 0.00 1.00 0.08 20.27 0.29 (0.40) 0.00 0.22 0.05 20.43 0.00 0.30 0.00 20.73
4/1/2019 10/1/2019 11/1/2019 11/1/2019 11/1/2019 11/1/2019 3/1/2020 4/1/2020 5/12/2020 6/1/2020 9/1/2020 9/1/2020 10/1/2020 10/1/2020	2018A Bond debt service payment - principal and interest Transfer from NGrid EE Loan principal repayment available RGGI Transfer Interest on Funds (R.G.G.I approx) Balance Loan interest repayment available 2018A Bond debt service payment - interest Loan - Closed Account reconciliation Interest on Funds (approx) Balance Loan principal repayment (not available until after bond debt service payment on 10/1) Loan interest repayment (not available until after bond debt service payment on 10/1) Interest on Funds (approx) Balance Transfer from NGrid EE 2018A Bond debt service payment - principal and interest Loans closed as part of 2020A bond issue Interest on Funds (approx)	0.04 6.73 (0.45) 0.03 6.31 0.00 6.31 2020 5.23 (3.20)	0.59 (0.55) (0.04) 0.00	(0.28) (1.46) 1.96 0.40 0.29 (0.40) 0.06 0.34 2.42 0.30 3.06 (Including E	(17.61) 0.20 (17.41) (17.41) Expected Ac	0.00 0.00 0.00	0.18 1.00 0.04 3.50 (1.42) 0.02 2.10	27.88 1.00 1.42 30.30 (2.42) 27.88	(1.22)	(0.28) (0.42) 5.00 0.00 1.00 0.08 20.27 0.29 (0.40) 0.00 0.22 0.05 20.43 0.00 0.30 0.00 20.73

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			202	1 Activity Fore	ecast					
3/1/2021	Loan interest repayment (available after bond debt service)			0.42						0.42
4/1/2021	2018A Bond debt service payment - interest			(0.38)						(0.38)
4/1/2021	2020A Bond debt service payment - interest			(0.22)						(0.22)
4/1/2021	Transfer from NGrid EE	5.00								5.00
5/1/2021	Loan closing - Energy efficiency 2018A Bond debt service payment - principal	(5.00)						5.00		0.00
10/1/2021	and interest 2020A Bond debt service payment - principal			(1.59)	1.21					(0.38)
10/1/2021	and interest			(0.86)	0.61					(0.26)
11/1/2021	Loan principal and interest repayment available			4.32				(4.32)		0.00
10/1/2021	Loan closing - Renewable energy						(2.00)	2.00		0.00
10/1/2021	Loan closing - Energy efficiency Loan closing as part of 2021A Bond (bond size dependent on need and SBC capital			(3.00)				3.00		0.00
10/1/2021	available) Interest on Funds				(13.88)			13.88		0.00
12/31/2021	Balance (Estimate)	0.10	0.00	0.19	(44.08)	0.00	0.12	74.63	(1.22)	29.74

Note: The Bond Revenue account contains loan repayments after the EBF 2018A bond issue. Revenue funds can be deallocated and made available for new loans annually. First deallocation is expected in 2021; exact amount to be determined.

PUC 1-55 (Revised)

Request:

Please update the Company's response to PUC Post-Decision Data Request 2-3 in Docket #4979 which read:

Please complete the accompanying Excel worksheet RIIB EBF Cash Flow Statement by Funding Source.xls.

- Feel free to add columns or rows as necessary.
- The worksheet should include all funding sources for EBF (including bond proceeds)
- If there are additional funding sources for the EBF not listed, please add as appropriate.
- Include all inflows and outflows.
- The balances in the total column should equal the cash balance in the EBF at the appropriate point in time (i.e. the 12/31/19 balance on the worksheet should equal the 12/31/19 cash balance as reported in the bank statement(s).
- Please provide estimates of 2020 activity.
- Add any additional information (either as part of the worksheet or in written form) that would provide a clear, understandable and complete picture of the activity taking place within the EBF.

Please include in the update a forecast of the 2021 activity.

Original Response:

This response was prepared on the basis of information provided to the Company by RIIB.

Please see an updated version of the RIIB's EBF cash flow statement included here as Attachment PUC 1-55.

Revised Response:

This response represents a revised version of the Company's original response to PUC 1-55 that was submitted on November 10, 2020. (See above for original response.)

This response was prepared on the basis of information provided to the Company by RIIB.

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In this revised response, the Company is providing an updated version of the RIIB EBF cash flow statement as Attachment PUC 1-55 (Revised). Attachment PUC 1-55 (Revised) matches the template used in the Company's responses to Post Decision Data Requests in Docket No. 4979.

As permitted by the question presented above, an additional column titled "Bond Revenue Account" has been added to the Docket No. 4979 template to better reflect the location of recycled funds repaid to the Bank after the first bond issue.

The Company can confirm the annual SBC transfer amounts to the Bank as listed in Attachment 1-55 (Revised) and has general insight into the most recent two loans closed on October 29, 2020 in the amounts of \$3,200,000 and \$24,000,000 as the Company engages in bi-weekly to monthly progress calls with the Office of Energy Resources (OER) and RIIB. Regarding the 2021 Activity Forecast shown in Attachment 1-55 (Revised), the Company cannot confirm the specific dates of the loan closings proposed but has received a list of potential projects from RIIB for years 2021 to 2023 and has weighted the likelihood of those projects and potential savings at Bates 415-417 of Attachment 2 of the 2021 Annual Energy Efficiency Program Plan.

				œ	SBC Repayments / Recycled				æ	R.G.G.I funds &			
Date	Description	SBC	SBC - Li Trai	SBC - Legislative Transfer	Funds Available	Bond Revenue Account (see note 1)	Bond Debt	Bond Anticipation Note Debt		R.G.G.I. revolved funds	EBF Loan Balance (Committed Funds)	RIIB Contribution	Total
12/30/2015	5 Balance	\$	\$	'	•	•	\$	s	•		•	· \$	•
4/20/2016	RGGI Transfer								\$	3,000,000.00			\$ 3,000,000.00
7/8/2016								\$ (14	(145,430.00)				\$ (145,430.00)
7/8/2016	6 loans closed; with BANS (ultimately 2 SBC, 4 bond proceeds)							\$ (17.18	(17.183.000.00)		\$ 17.183.000.00		φ
11/2/2016			\$ 1,87	1,870,447.00									\$ 1,870,447.00
11/4/2016	RGGI Transfer								8	2,000,000.00			\$ 2,000,000.00
12/31/2016	6 Balance	ss	\$ 1,87	1,870,447.00 \$		· •	\$	\$ (17,32	(17,328,430.00) \$	5,000,000.00	\$ 17,183,000.00	•	\$ 6,725,017.00
3/1/2017	Loan interest repayment available - whole year				\$ 14,805.17		\$ 194,448.81	_	8				\$ 209,253.98
11/1/2017	' Loan principal repayment available	\$					\$ 59,570.00	0	S	•	\$ (59,570.00)		•
11/1/2017	' Transfer from NGrid EE	\$ 5,000,000.00	_										\$ 5,000,000.00
12/13/2017	7 5 loans closed; with BANS (ultimately, 3 RGGI,	000000000000000000000000000000000000000						9	\$ (20,00)	(00 000 890 67 \$ (00 000 89)	40.464.670.00		e
		\$ (2,370,000.0C	6						e (00.01c,c	(2,000,000,00)	Ś		
12/28/2017	7 1 loan closed with SBC	\$ (250,000.00)	<u> </u>								\$ 250,000.00		- ₩
12/31/2017	7 Balance	\$ 2,380,000.00	s	1,870,447.00 \$	\$ 14,805.17	•	\$ 254,018.81	s	(23,345,000.00) \$	2,932,000.00	\$ 27,828,000.00	•	\$11,934,270.98
3/1/2018	Loan interest repayment available - whole year			37	\$ 93,005.75		\$ 317,160.56	9	\$	3,001.40			\$ 413,167.71
10/1/2018	BAN interest repayment						\$ (172,772.67)	2					\$ (172,772.67)
10/1/2018							(380,061.00)	(0					\$ (380,061.00)
10/5/2018		\$ (2,406,378.00)	€9	(93,622.00)							\$ 2,500,000.00		· •
10/16/2018	8 Transfer from NGrid EE	\$ 5,000,000.00	_										\$ 5,000,000.00
11/1/2018				57	\$ 475,000.00		\$ 757,000.00	0	₩	20,000.00	\$ (1,252,000.00)		•
11/20/2018	BAN principle repayment and DSRF	© (3 326 530 14) © (1 803 569 86)	1 8 (1 80	13 560 86)			(18 859 967 00)	e	23 345 000 00 &	(730 033 00)		\$ (1.215,000,00) \$ (2.500,000,00)	(00 000 000)
11/29/2018		2000,020,000	ó: →	(2000)			(935,000,000)	•		(20.000)	8 935.000.00	(00.000,012,1)	(50,000,000,1)
		\$ 39,535.24	₩	29,673.45 \$	2,431.32				↔	35,000.00			\$ 106,640.01
12/31/2018	Balance Balance	\$ 1,686,627.10	\$	2,928.59 \$	\$ 585,242.24	•	\$ (19,019,621.30)	\$ (0	\$	2,250,068.40	\$ 30,011,000.00	\$ (1,215,000.00)	\$14,301,245.03
3/1/2019	Loan interest repayment available - whole year					185,186.63	\$ 363,623.67	2	\$	39,268.88			\$ 588,079.18
4/1/2019	2018A Bond debt service payment - interest					\$ (282,446.94)							\$ (282,446.94)
10/1/2019						\$ (1,461,725.00)	\$ 1,045,000.00	0					\$ (416,725.00)
11/2019	Transfer from NGrid EE	\$ 5,000,000.00	_										\$ 5,000,000.00
11/1/2019	Loan principal repayment available RGGI Transfer					\$ 1,957,000.00			ө	1.000.000.00	\$ (2,132,000.00)		\$ 1.000.000.00
		\$ 38,666.02	€9	34.24 \$	2,431.32				€9	39,517.92			\$ 80,649.50
12/31/2010	B Palanca	¢ 6 725 203 12	e	2 062 83 6	¢ 587 673 56	308 014 60	(47 640 007 63)	3).		3 503 855 20	07 879 000 00	(4 24 5 000 00)	\$20 270 801 77
			•		200101000			*	>	3,000,000,00		(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	

Rhode Island Infrastructure Bank Efficient Buildings Fund Cash Flow Amounts in \$

R.G.G.I funds & R.G.G.I. revolved EBF Loan Balance RIIB Total funds (Committed Funds) Contribution Total \$ 285,334.18 \$ 1,000,000.00 \$ \$ (401,050.00) \$
R.G.G.I. revolved funds
Bond Anticipation ebt Note Debt
See note 1) Bond Debt 265,334.18 (401,050.00)
Funds Bond Revenue Available Account (see note 1) \$ 285,334.18 \$ (401,050.00) \$(550,986.37)
SBC - Legislative Transfer A
SBC SBC \$ (449,013.63)
Description Loan interest repayment available 2018A Bond debt service payment - interest Loan - Closed
Date 3/1/2020 Loa 4/1/2020 201 5/12/2020 Loa

SBC

Note 1: The Bond Revenue account contains loan repayments after the EBF 2018A bond issue. Revenue funds can be deallocated and made available for new loans annually. First deallocation is expected in 2021; exact amount to be determined.

PUC 1-56

Request:

Please explain how the Program Leverage Ratio of 2.18x is calculated in Table 8 on Bates 414.

Response:

This response was prepared on the basis of information provided to the Company by RIIB.

The Program Leverage Ratio of 2.18x was determined by dividing the expected total EE loans to be issued, as of December 2020 (\$47,777,618), by the expected SBC funds to be received to date (\$21,997,113).

In the month of October 2020, EBF closed \$27.2 million in energy efficiency loans and National Grid transferred \$5,216,666. The EE loan total became \$47,719,048 and the SBC funds received to date totaled \$22,097,113. Therefore, the updated Program Leverage Ratio is 2.16x. The Bank and Company used \$5.1 MM as the transfer in the initial calculation.

PUC 1-57

Request:

Please explain the source of the funds expected to be used to fund the two loans totaling \$27.2 million that are expected to close in November 2020 (described on Bates 414).

Response:

This response was prepared on the basis of information provided to the Company by RIIB.

The two loans closed on 10/29/20 as part of a 2020A EBF bond issue. Loan #1, for \$3.2 million, was funded completely with SBC funds for Warwick's streetlight LED conversion project. Loan #2, for \$24 million, was funded with \$8,240,105 of SBC funds and \$15,759,895 of bond proceeds for East Providence's energy efficiency projects as part of the new construction of a high school.

PUC 1-58

Request:

Please explain the source of funds expected to be used to fund the loans in the Forecasted 2021 Pipeline (described on Bates 416).

Response:

This response was prepared on the basis of information provided to the Company by RIIB.

SBC funds (both recycled and new dollars) will be used for energy efficiency loans. The 2021 energy efficiency pipeline includes energy efficiency work in North Kingstown, which has ongoing energy construction projects with financing needed in May. Additionally, municipalities have passed bonds for public building improvements in the November election including Pawtucket for \$8 million, Cranston for \$5 million and Jamestown for \$1.5 million. Municipalities who have recently obtained borrowing authority have strongly signaled their intent to move forward with proposed projects and use the EBF program to access below market interest rate financing.

RGGI funds will be used to fund renewable energy loans. The renewable energy pipeline includes Cranston, which passed a \$5 million Renewable Energy Improvement Bond in the November election (this number also includes energy efficiency), and Warren, which has engaged RIIB and OER in discussion of solar energy on their wastewater treatment facility.

The November election also saw municipalities pass school construction bonds. The total amount approved by the voters was \$457 million. Using the East Providence new high school construction project as an example and model for municipalities to integrate EBF financing into their capital stack, we expect a significant amount of energy efficiency projects to come from school projects. Due to the complexity of these projects, we expect to see these financed over a three year time horizon which is in line with the East Providence experience.

Limited bond funds may also be used for new loans in the 2021 pipeline.

PUC 1-59

Request:

Please explain why the loans expected to be closed in November 2020 and the Forecasted 2021 Pipeline cannot be funded with proceeds of bonds and/or recycled funds.

Response:

This response was prepared on the basis of information provided to the Company by RIIB.

A portion of the two loans closed on 10/29/2020 were funded with bond funds and recycled funds.

As stated in PUC 1-57, two loans closed on 10/29/20 as part of a 2020A EBF bond issue. Loan #1, for \$3.2 million, was funded with SBC funds for Warwick's streetlight LED conversion project. Loan #2, for \$24 million, was funded with \$8,240,105 of SBC funds and \$15,759,895 of bond proceeds for East Providence's energy efficiency projects as part of the new construction of a high school.

The 2020A bond was issued with a par value of \$13,970,000 and had an issue premium of \$2,063,589.10. The bond proceeds covered \$15,759,895 of the \$24 million loan along with \$273,694.10 of bond-associated delivery date expenses. The 2020A bond used the debt service reserve fund originally created as part of the 2018A bond and so a new debt service reserve fund was not needed, increasing funding effectiveness.

Additionally, while recycled SBC dollars were used, they were not sufficient to accommodate the full amount of the loans. The cash flow spreadsheet that was submitted as part of PUC 1-55 contains additional details of how funds were used.

A major goal of bond issuances is to achieve a AAA credit rating for EBF bonds, which results in the lowest interest rates to our borrowers. At this time, due to the infancy of the program and small amount of projects overall, the EBF program has achieved a AA credit rating. As the program continues to grow and diversify, we would expect a rating upgrade and thus lower interest costs for EBF projects.

To meet the needs of future projects, the Bank is constrained from issuing unlimited new debt due to meeting debt service coverage ratios and other required financing covenants for the Bank's bond holders. To increase the amount of debt the EBF program can issue, more capital

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would need to be contributed, over and above the \$5MM in SBC capital along with recycled funds.

The rating is dependent on 1) the debt service coverage ratio of the bond and 2) the available cash on hand, among other factors. Both factors benefit from SBC capital. Receiving SBC capital enables bond issues and allows the program to grow.

Given the robust pipeline identified for 2021, a 2021 bond issue may be necessary. However, the size of the bond issue will be constrained by the available capital and a 2021 SBC transfer will be imperative to lowering the cost of critical construction projects in Rhode Island.