

Division 26-1

Request:

Please refer to Attachment DPU-NG 1-10-1 submitted in response to discovery in Massachusetts docket D.P.U. 17-170 and provide an updated version of this attachment in this Docket No. 4770 and answer the following:

- a. Please provide your response in native electronic spreadsheet format, including the same level of detail for line items and categories of investment, as well as by operating affiliate, state jurisdiction, NGUSA Parent Co. and total.
- b. If there is no change in the values shown in Attachment DPU-NG 1-10-1, please submit an electronic spreadsheet version of Attachment DPU-NG 1-10-1 in this docket and affirm in your response that there is no change.
- c. If there is any change, please provide an updated spreadsheet as requested and include a detailed explanation for the change in your response.

Response:

- a. The Company is providing an updated version of Attachment DPU-NG 1-10-1 submitted in response to discovery in Massachusetts docket D.P.U. 17-170 with this response as Attachment DIV 26-1-1. Attachment DIV 26-1-1 has been provided in Excel spreadsheet format.
- b. The Company has changed the values shown in Attachment DPU-NG 1-10-1; please refer to part a. above.
- c. An explanation of the changes made to Attachment DPU-NG 1-10-1 is provided in the table below. The rationale behind the various allocators used to charge each affiliate company its share of Gas Business Enablement capital and non-capital costs was discussed in the Company's response to Division 17-3, provided with this response as Attachment DIV 26-1-3.

**Revisions to DPU-NG 1-10-1 made in Attachment DIV 26-1-1:**

Pages 1 through 4

- |         |   |
|---------|---|
| Line 34 | Changed allocation code to G-012 (Three-point General Allocator All Companies)  |
| Line 42 | Changed allocation code to C-175 (Number of Customers Allocator All Retail Companies)   |
| Line 43 | Divided into two sets of Portfolio Anchors (PA). PA 1-3 changed allocation code to C-175 (Number of Customers Allocator All Retail Companies) |
| Line 45 | Corrected MA Gas and RI allocations; consistent with the Company's response to Division 24-3  |

The Narragansett Electric Company  
d/b/a National Grid  
RIPUC Docket No. 4770  
Responses to Division's Twenty-Sixth Set of Data Requests  
Issued February 21, 2018

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(included as Attachment DIV 26-1-2).

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- Line 3 Narragansett Electric & Narragansett Gas implementation dates changed to April 2018, from March 2018 per the Company's response to Division 26-5.
- Line 15 Narragansett Electric & Narragansett Gas implementation dates changed to April 2018, from October 2018 per the Company's response to Division 26-5.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	
1																			The Narragansett Electric Company
2																			d/b/a National Grid
3																			RIPUC Docket No. 4770
4																			Attachment DIV 24-3
5																			Page 1 of 3
6																			
7																			
8			Fiscal Year / Pt Values																
9	Receiving Company - Text	Segment	001/2017		002/2017		003/2017		004/2017		005/2017		006/2017		007/2017		008/2017		
10	Boston Gas Company	MAGASD	Opex	Capex	Opex	Capex	Opex	Capex	Opex	Capex	Opex	Capex	Opex	Capex	Opex	Capex	Opex	Capex	
11	Brooklyn Union Gas-KEDNY	NYGASD											198,710		286,577		580,310		
12	Colonial Gas Company	MAGASD											256,813		370,372		749,993		
13	KeySpan Corporation	PARENT											44,452		64,108		129,816		
14	KS Gas East Corp-KEDLI	NYGASD											183,865		265,167		536,955		
15	Massachusetts Electric Co	FRTRAN																	
16	Massachusetts Electric Co	MAELEC																	
17	Nantucket Electric Co	MAELEC																	
18	Narragansett Electric Co	FRTRAN																	
19	Narragansett Electric Co	RIELEC																	
20	Narragansett Electric Co	RIGASD											63,222		91,178		184,633		
21	National Grid USA Parent	PARENT	18,640		237,795		61,729		102,700		260,401		915,819		473,541		(270,628)		
22	NE Electric Trans Corp	FRELEC																	
23	NE Hydro-Trans Corp	FRELEC																	
24	NE Hydro-Trans Elec Co	FRELEC																	
25	New England Power Company	FRTRAN																	
26	NG Development Holdings	NONREG																	
27	NG Generation LLC	FRPGEN																	
28	NG Glenwood Energy Center	FRPGEN																	
29	NG LNG LP RegulatedEntity	FRGASO																	
30	NG PortJeff Energy Center	FRPGEN																	
31	NG Services, Inc.	NONREG																	
32	NGUSA Service Company	SERVCO																	
33	Niagara Mohawk Power Corp	NYELEC																	
34	Niagara Mohawk Power Corp	NYGASD											106,138		153,071		309,964		
35	Niagara Mohawk Power Corp	NYTRAN																	
36	Transgas Inc	NONREG																	
37	<b>Grand Total</b>		<b>18,640</b>		<b>237,795</b>		<b>61,729</b>		<b>102,700</b>		<b>260,401</b>		<b>1,769,019</b>		<b>1,704,013</b>		<b>2,221,042</b>		
38																			
39	Receiving Company Summary																		
40																			
41	Gas Companies		-	-	-	-	-	-	-	-	-	-	853,200	-	1,230,472	-	2,491,670	-	
42	Electric & Transmission Companies		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
43	NGUSA Service Company		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
44	Parent		18,640		237,795		61,729		102,700		260,401		915,819		473,541		(270,628)		
45	Non Regulated		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
46	<b>Total</b>		<b>18,640</b>		<b>237,795</b>		<b>61,729</b>		<b>102,700</b>		<b>260,401</b>		<b>1,769,019</b>		<b>1,704,013</b>		<b>2,221,042</b>		

	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG
1	The Narragansett Electric Company														
2	d/b/a National Grid														
3	RIPUC Docket No. 4770														
4	Attachment DIV 24-3														
5	Page 2 of 3														
6															
7															
8															
9	Receiving Company - Text	009/2017		010/2017		011/2017		012/2017		001/2018		002/2018		003/2018	
10		Opex	Capex												
11	Boston Gas Company	550,161		444,483		1,536,903		1,073,264		345,816		628,118		700,093	
12	Brooklyn Union Gas-KEDNY	711,028		574,451		1,986,294		1,387,086		469,129		852,097		949,736	
13	Colonial Gas Company	123,072		99,432		343,807		240,090		77,764		141,245		157,430	
14	KeySpan Corporation														
15	KS Gas East Corp-KEDLI	509,058		411,276		1,422,081		993,080		316,599		575,049		640,943	
16	Massachusetts Electric Co														
17	Massachusetts Electric Co														
18	Nantucket Electric Co														
19	Narragansett Electric Co														
20	Narragansett Electric Co	175,040		141,417		488,985		341,471		109,079		198,124		220,826	
21	National Grid USA Parent	9,319		50,969		(1,789,339)		18,087		8,230		20,633		162,011	
22	NE Electric Trans Corp														
23	NE Hydro-Trans Corp														
24	NE Hydro-Trans Elec Co														
25	New England Power Company														
26	NG Development Holdings														
27	NG Generation LLC														
28	NG Glenwood Energy Center														
29	NG LNG LP RegulatedEntity														
30	NG PortJeff Energy Center														
31	NG Services, Inc.														
32	NGUSA Service Company														
33	Niagara Mohawk Power Corp														
34	Niagara Mohawk Power Corp	293,860		237,414		820,913		573,268		179,950		326,850		364,303	
35	Niagara Mohawk Power Corp														
36	Transgas Inc														
37	<b>Grand Total</b>	<b>2,371,538</b>		<b>1,959,443</b>		<b>4,809,643</b>		<b>4,626,345</b>		<b>1,506,567</b>		<b>2,742,116</b>		<b>3,195,342</b>	
38															
39	Receiving Company Summary														
40															
41	Gas Companies	2,362,219	-	1,908,474	-	6,598,982	-	4,608,259	-	1,498,338	-	2,721,484	-	3,033,330	-
42	Electric & Transmission Companies	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	NGUSA Service Company	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	Parent	9,319	-	50,969	-	(1,789,339)	-	18,087	-	8,230	-	20,633	-	162,011	-
45	Non Regulated	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46	<b>Total</b>	<b>2,371,538</b>		<b>1,959,443</b>		<b>4,809,643</b>		<b>4,626,345</b>		<b>1,506,567</b>		<b>2,742,116</b>		<b>3,195,342</b>	

	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW
1	The Narragansett Electric Company															
2	d/b/a National Grid															
3	RIPUC Docket No. 4770															
4	Attachment DIV 24-3															
5	Page 3 of 3															
6																
7																
8																
9	Receiving Company - Text	004/2018		005/2018		006/2018		007/2018		008/2018		009/2018		Total Opex	Total Capex	Total
10		Opex	Capex	Opex	Capex	Opex	Capex	Opex	Capex	Opex	Capex	Opex	Capex			
11	Boston Gas Company	1,259,887		(98,898)		302,206		309,462		(433,248)		314,978		7,998,822		
12	Brooklyn Union Gas-KEDNY	1,709,145		(134,164)		409,968		419,812		(146,662)		689,853		11,254,951		
13	Colonial Gas Company	283,311		(22,240)		67,957		69,589		(33,804)		108,903		1,894,929		
14	KeySpan Corporation									354		0		354		
15	KS Gas East Corp-KEDLI	1,153,441		(90,543)		276,673		283,316		(457,212)		246,769		7,266,516		
16	Massachusetts Electric Co									6,022		3		6,025		
17	Massachusetts Electric Co									901,832		67,708		969,540		
18	Nantucket Electric Co									11,553		700		12,253		
19	Narragansett Electric Co									62,698		31		62,729		
20	Narragansett Electric Co									306,420		25,507		331,928		
21	Narragansett Electric Co	397,399		(31,195)		95,323		97,612		(71,057)		138,783		2,640,840		
22	National Grid USA Parent	(66,069)		4,276		14,770		(48,704)		71,861		25,170		281,208		
23	NE Electric Trans Corp									354		0		354		
24	NE Hydro-Trans Corp									3,896		2		3,898		
25	NE Hydro-Trans Elec Co									6,022		3		6,025		
26	New England Power Company									177,113		88		177,201		
27	NG Development Holdings									6,376		3		6,379		
28	NG Generation LLC									143,107		71		143,178		
29	NG Glenwood Energy Center									4,605		2		4,607		
30	NG LNG LP RegulatedEntity									6,022		3		6,025		
31	NG PortJeff Energy Center									5,313		3		5,316		
32	NG Services, Inc.									5,668		3		5,670		
33	NGUSA Service Company			6,185,459		7,185,687		9,677,187		4,688,524		5,034,644		32,771,501		
34	Niagara Mohawk Power Corp									800,483		85,450		885,932		
35	Niagara Mohawk Power Corp	655,600		(51,463)		157,257		161,033		119,832		370,511		4,778,503		
36	Niagara Mohawk Power Corp									198,012		98		198,110		
37	Transgas Inc									2,834		1		2,835		
38	Grand Total	5,392,714		(424,227)	6,185,459	1,324,154	7,185,687	1,292,120	9,677,187	1,698,395	4,688,524	2,074,643	5,034,644	38,944,132	32,771,501	71,715,632
39	Receiving Company Summary															
40																
41	Gas Companies	5,458,783	-	(428,502)	-	1,309,385	-	1,340,824	-	(1,022,151)	-	1,869,798	-	35,834,562	-	35,834,562
42	Electric & Transmission Companies	-	-	-	-	-	-	-	-	2,633,453	-	179,668	-	2,813,122	-	2,813,122
43	NGUSA Service Company	-	-	-	6,185,459	-	7,185,687	-	9,677,187	-	4,688,524	-	5,034,644	-	32,771,501	32,771,501
44	Parent	(66,069)	-	4,276	-	14,770	-	(48,704)	-	72,215	-	25,170	-	281,563	-	281,563
45	Non Regulated	-	-	-	-	-	-	-	-	14,878	-	7	-	14,885	-	14,885
46	Total	5,392,714	-	(424,227)	6,185,459	1,324,154	7,185,687	1,292,120	9,677,187	1,698,395	4,688,524	2,074,643	5,034,644	38,944,132	32,771,501	71,715,632

The Narragansett Electric Company  
d/b/a National Grid  
RIPUC Docket No. 4770  
Responses to Division's Seventeenth Set of Data Requests  
Issued January 26, 2018

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Division 17-13

Request:

Please refer to the testimony of Johnston and Connolly Page 9 of 48, and respond to the following:

- a. Explain how the costs for Rhode Island were developed.
- b. Provide all analysis that supports the allocation or assignment of costs to each company affiliate receiving a share of costs. Include all workpapers in working Excel format with all rows and columns labeled and defined.
- c. Explain why Narragansett electric customers are allocated a portion of the capital cost but none of the O&M expenses associated with Gas Business Enablement.
- d. Are any other of National Grid's electric utilities being allocated costs associated with the Gas Business Enablement program? Is so, please provide an update to the itemized breakdown of the multi-year costs of \$478.3 million by cost type across all jurisdictions provided in Attachment DIV 3-61 with an additional breakdown by gas and electric share in each jurisdiction. If not, please explain why not?

Response:

- a. The capital expense allocated to Rhode Island is determined by using the allocated spend as described above in the response to part a. The Company will then use the allocated spend to calculate the return and amortization over the life of the workstream. The detailed calculation is described below:
  1. Rate Year Return – Average of the beginning and end of year unamortized asset balance (Average Balance) x Service Company Return
  2. Rate Year Return on Accumulated Deferred Taxes – Cash/Book Tax Difference x Service Company Return
  3. Total Return – Rate Year Return – Rate Year Return on Accumulated Deferred Taxes
  4. Amortization – Total Spend/Amortization Period (10 years)
  5. The operating expenses are allocated to Rhode Island using an allocator based on the number of gas retail customers with the exception of Customer Engagement, Workforce Management SDM, and Power Plant enhancement workstreams as

Prepared by or under the supervision of: Anthony Johnston, Christopher Connolly and Melissa Little

The Narragansett Electric Company  
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Issued January 26, 2018

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described in part b below . The operating expenses are then reduced by the burdened labor expense related to employees included in the Company's employee complement at June 30, 2017, for each fiscal year.

- b. As explained in the Company's response to PUC 5-13, a majority of the costs were allocated to the jurisdictions by the C210 (All Gas Retail Customers) allocator. Also, within the program, there are two workstreams related to Power Plant enhancements that are allocated to all companies by the G012 (General All Company 3 point allocator). The program also allocates costs to electric distribution companies for the below referenced workstreams using the C-175 (All Retail Customers) allocator. Please refer to the excel Attachment DIV 17-13 for further detail on how the costs are allocated to each jurisdiction.

Customer Enablement - Implementation of a Customer Relationship Management (CRM) application (Salesforce CRM software) in the Customer Contact Centers supports both electric and gas businesses. The application will be integrated with the Field Service Lightning application providing a 360 degree view of the customer. This workstream will also deliver new self-service features and capabilities to customers via website and NG apps to schedule appointments, receiving notifications, and manage accounts.

Work Management (SDM) - Implementation of standardized processes and new field mobile application (Salesforce Field Service Lightning) on a tablet device supporting the Customer Meter Service (CMS) Organization (gas and electric). The Dispatch and Scheduling Group (part of the CMS organization) will also receive the new software application to schedule and dispatch work to the field technicians. This group manages available resource capability to support customer appointment work, non-appointment work, and emergency response.

- c. The Company inadvertently omitted the allocation of O&M expenses to Narragansett Electric. The impact of this omission is an additional \$60,042 in O&M expense for the rate year to Narragansett Electric, and a decrease in O&M expense of \$36,527 to Narragansett Gas. The Rate Year and Data Years will be adjusted in a subsequent revision to the Company's cost of service.
- d. Yes. Other National Grid electric distribution utilities are being allocated costs associated with the Gas Business Enablement program, as described in part a above. Please refer to Attachment DIV 17-13 for an update to the itemized breakdown of the multi-year costs across all jurisdictions.

Prepared by or under the supervision of: Anthony Johnston, Christopher Connolly and Melissa Little

The Narragansett Electric Company  
Gas Business Enablement  
Total forecasted GBE Program spend by jurisdiction

Line	Portfolio Anchor	Workstream	Allocation Code	Total US GBE Investment (recorded on the books of the Service Company)		
				Total US CapEx Spend	Total US Non-CapEx Spend	Total US Spend
<b>Cap Ex Investment</b>						
1	PA1-3	Asset Management	C-210	\$ 27,740,204	\$ -	\$ 27,740,204
2	PA1-3	Asset Management / GIS	C-210	\$ 57,094,854	\$ -	\$ 57,094,854
3	PA1-3	Work Management (Maximo)	C-210	\$ 77,789,270	\$ -	\$ 77,789,270
4	PA4	Asset Management	C-210	\$ 11,194,992	\$ -	\$ 11,194,992
5	PA4	Asset Management / GIS	C-210	\$ 11,593,919	\$ -	\$ 11,593,919
6	PA4	Work Management (Maximo)	C-210	\$ 23,162,044	\$ -	\$ 23,162,044
7	PA5	Asset Management	C-210	\$ 7,543,962	\$ -	\$ 7,543,962
8	PA5	Asset Management / GIS	C-210	\$ 5,708,998	\$ -	\$ 5,708,998
9	PA5	Work Management (Maximo)	C-210	\$ 8,821,682	\$ -	\$ 8,821,682
10	PA6	Asset Management	C-210	\$ 3,430,354	\$ -	\$ 3,430,354
11	PA6	Asset Management / GIS	C-210	\$ 2,426,260	\$ -	\$ 2,426,260
12	PA6	Work Management (Maximo)	C-210	\$ 2,669,104	\$ -	\$ 2,669,104
13	PA1-3	Customer Engagement	C-175	\$ 21,662,720	\$ -	\$ 21,662,720
14	PA4	Customer Engagement	C-175	\$ 5,375,307	\$ -	\$ 5,375,307
15	PA1-3	WM-SDM	C-175	\$ 21,241,751	\$ -	\$ 21,241,751
16	PA4	WM-SDM	C-210	\$ 7,223,210	\$ -	\$ 7,223,210
17	PA5	WM-SDM	C-210	\$ 704,896	\$ -	\$ 704,896
18	PA6	WM-SDM	C-210	\$ 566,330	\$ -	\$ 566,330
19	PA1-3	Supply Chain	C-210	\$ 8,802,068	\$ -	\$ 8,802,068
20	PA4	Supply Chain	C-210	\$ 2,299,468	\$ -	\$ 2,299,468
21	PA1-3	Hardware (CapEx)	C-175	\$ 4,979,300	\$ -	\$ 4,979,300
22	PA4	Hardware (CapEx)	C-210	\$ 1,348,500	\$ -	\$ 1,348,500
23	PA5	Hardware (CapEx)	C-210	\$ 1,050,000	\$ -	\$ 1,050,000
24	PA6	Hardware (CapEx)	C-210	\$ -	\$ -	\$ -
25	PA1-3	PP Enhancements (CapEx)	G-012	\$ 990,833	\$ -	\$ 990,833
<b>Non-Cap Ex Investment</b>						
26		Business Enablement & Change Management	C-210	\$ -	\$ 12,833,790	\$ 12,833,790
27		Data Management	C-210	\$ -	\$ 1,367,967	\$ 1,367,967
28		IS Enabling	C-210	\$ -	\$ 8,306,845	\$ 8,306,845
29		Operating Model	C-210	\$ -	\$ 1,426,405	\$ 1,426,405
30		Portfolio Office	C-210	\$ -	\$ 35,089,803	\$ 35,089,803
31		Strategic BECM	C-210	\$ -	\$ 11,617,248	\$ 11,617,248
32		Software	C-210	\$ -	\$ 13,868,273	\$ 13,868,273
33		Hardware	C-210	\$ -	\$ 3,767,200	\$ 3,767,200
34		Power Plant Enhancements	G-012	\$ -	\$ 1,840,119	\$ 1,840,119
35		Tech Training - Labor	C-210	\$ -	\$ 19,750,000	\$ 19,750,000
36		Data Migration	C-210	\$ -	\$ 713,574	\$ 713,574
37		Value Assurance	C-210	\$ -	\$ 2,600,000	\$ 2,600,000
38		Phase 1	C-210	\$ -	\$ 6,130,746	\$ 6,130,746
39		Asset Management	C-210	\$ -	\$ 1,823,624	\$ 1,823,624
40		Asset Management / GIS	C-210	\$ -	\$ 2,190,698	\$ 2,190,698
41		Work Management (Maximo)	C-210	\$ -	\$ 6,455,987	\$ 6,455,987
42		Customer Engagement	C-175	\$ -	\$ 2,072,189	\$ 2,072,189
43		WM-SDM (PA 1-3)	C-175	\$ -	\$ 5,763,782	\$ 5,763,782
44		WM-SDM (PA 4-6)	C-210	\$ -	\$ 2,216,297	\$ 2,216,297
45		Supply Chain	C-210	\$ -	\$ 2,887,559	\$ 2,887,559
46		FY17 Non-CapEx Investment	G-210	\$ -	\$ 20,142,307	\$ 20,142,307
47		<b>Totals</b>		<b>\$ 315,420,028</b>	<b>\$ 162,864,413</b>	<b>\$ 478,284,441</b>

**Fiscal Year 2018 Bill Pool Allocators**

All US Electric and Gas Distribution Companies--Number of Customers	C-175	All Retail Companies	100.00%
All US Gas Distribution Companies--Number of Customers	C-210	All Gas Retail Companies	100.00%
All US Electric and Gas Distribution Companies--General 3-Point Allocator (1)	G-012	All Companies	100.00%

- (1) 3-Point Allocator is based on weighting of each company's (1) Net Plant,
- (2) Net Margin & (3) Net Operations & Maintenance Expense

The Narragansett Electric Company  
Gas Business Enablement  
Total forecasted GBE Program spend by jurisdiction

Line	Portfolio Anchor Workstream		Allocation Code	RI-Electric Share			RI-Gas Share		
				CapEx	Non-CapEx	Total RI Electric	CapEx	Non-CapEx	Total RI Gas
<b>Cap Ex Investment</b>									
1	PA1-3	Asset Management	C-210	\$ -	\$ -	\$ -	\$ 2,044,453	\$ -	\$ 2,044,453
2	PA1-3	Asset Management / GIS	C-210	\$ -	\$ -	\$ -	\$ 4,207,891	\$ -	\$ 4,207,891
3	PA1-3	Work Management (Maximo)	C-210	\$ -	\$ -	\$ -	\$ 5,733,069	\$ -	\$ 5,733,069
4	PA4	Asset Management	C-210	\$ -	\$ -	\$ -	\$ 825,071	\$ -	\$ 825,071
5	PA4	Asset Management / GIS	C-210	\$ -	\$ -	\$ -	\$ 854,472	\$ -	\$ 854,472
6	PA4	Work Management (Maximo)	C-210	\$ -	\$ -	\$ -	\$ 1,707,043	\$ -	\$ 1,707,043
7	PA5	Asset Management	C-210	\$ -	\$ -	\$ -	\$ 555,990	\$ -	\$ 555,990
8	PA5	Asset Management / GIS	C-210	\$ -	\$ -	\$ -	\$ 420,753	\$ -	\$ 420,753
9	PA5	Work Management (Maximo)	C-210	\$ -	\$ -	\$ -	\$ 650,158	\$ -	\$ 650,158
10	PA6	Asset Management	C-210	\$ -	\$ -	\$ -	\$ 252,817	\$ -	\$ 252,817
11	PA6	Asset Management / GIS	C-210	\$ -	\$ -	\$ -	\$ 178,815	\$ -	\$ 178,815
12	PA6	Work Management (Maximo)	C-210	\$ -	\$ -	\$ -	\$ 196,713	\$ -	\$ 196,713
13	PA1-3	Customer Engagement	C-175	\$ 1,503,393	\$ -	\$ 1,503,393	\$ 816,685	\$ -	\$ 816,685
14	PA4	Customer Engagement	C-175	\$ 373,046	\$ -	\$ 373,046	\$ 202,649	\$ -	\$ 202,649
15	PA1-3	WM-SDM	C-175	\$ 1,474,178	\$ -	\$ 1,474,178	\$ 800,814	\$ -	\$ 800,814
16	PA4	WM-SDM	C-210	\$ -	\$ -	\$ -	\$ 532,351	\$ -	\$ 532,351
17	PA5	WM-SDM	C-210	\$ -	\$ -	\$ -	\$ 51,951	\$ -	\$ 51,951
18	PA6	WM-SDM	C-210	\$ -	\$ -	\$ -	\$ 41,739	\$ -	\$ 41,739
19	PA1-3	Supply Chain	C-210	\$ -	\$ -	\$ -	\$ 648,712	\$ -	\$ 648,712
20	PA4	Supply Chain	C-210	\$ -	\$ -	\$ -	\$ 169,471	\$ -	\$ 169,471
21	PA1-3	Hardware (CapEx)	C-175	\$ 345,563	\$ -	\$ 345,563	\$ 187,720	\$ -	\$ 187,720
22	PA4	Hardware (CapEx)	C-210	\$ -	\$ -	\$ -	\$ 99,384	\$ -	\$ 99,384
23	PA5	Hardware (CapEx)	C-210	\$ -	\$ -	\$ -	\$ 77,385	\$ -	\$ 77,385
24	PA6	Hardware (CapEx)	C-210	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
25	PA1-3	PP Enhancements (CapEx)	G-012	\$ 82,933	\$ -	\$ 82,933	\$ 28,239	\$ -	\$ 28,239
<b>Non-Cap Ex Investment</b>									
26		Business Enablement & Change Management	C-210	\$ -	\$ -	\$ -	\$ -	\$ 945,850	\$ 945,850
27		Data Management	C-210	\$ -	\$ -	\$ -	\$ -	\$ 100,819	\$ 100,819
28		IS Enabling	C-210	\$ -	\$ -	\$ -	\$ -	\$ 612,215	\$ 612,215
29		Operating Model	C-210	\$ -	\$ -	\$ -	\$ -	\$ 105,126	\$ 105,126
30		Portfolio Office	C-210	\$ -	\$ -	\$ -	\$ -	\$ 2,586,118	\$ 2,586,118
31		Strategic BECM	C-210	\$ -	\$ -	\$ -	\$ -	\$ 856,191	\$ 856,191
32		Software	C-210	\$ -	\$ -	\$ -	\$ -	\$ 1,022,092	\$ 1,022,092
33		Hardware	C-210	\$ -	\$ -	\$ -	\$ -	\$ 277,643	\$ 277,643
34		Power Plant Enhancements	G-012	\$ -	\$ 154,018	\$ 154,018	\$ -	\$ 52,443	\$ 52,443
35		Tech Training - Labor	C-210	\$ -	\$ -	\$ -	\$ -	\$ 1,455,575	\$ 1,455,575
36		Data Migration	C-210	\$ -	\$ -	\$ -	\$ -	\$ 52,590	\$ 52,590
37		Value Assurance	C-210	\$ -	\$ -	\$ -	\$ -	\$ 191,620	\$ 191,620
38		Phase 1	C-210	\$ -	\$ -	\$ -	\$ -	\$ 451,836	\$ 451,836
39		Asset Management	C-210	\$ -	\$ -	\$ -	\$ -	\$ 134,401	\$ 134,401
40		Asset Management / GIS	C-210	\$ -	\$ -	\$ -	\$ -	\$ 161,454	\$ 161,454
41		Work Management (Maximo)	C-210	\$ -	\$ -	\$ -	\$ -	\$ 475,806	\$ 475,806
42		Customer Engagement	C-175	\$ -	\$ 143,810	\$ 143,810	\$ -	\$ 78,122	\$ 78,122
43		WM-SDM (PA 1-3)	C-175	\$ -	\$ 400,006	\$ 400,006	\$ -	\$ 217,295	\$ 217,295
44		WM-SDM (PA 4-6)	C-210	\$ -	\$ -	\$ -	\$ -	\$ 163,341	\$ 163,341
45		Supply Chain	C-210	\$ -	\$ -	\$ -	\$ -	\$ 212,813	\$ 212,813
46		FY17 Non-CapEx Investment	G-210	\$ -	\$ -	\$ -	\$ -	\$ 1,492,545	\$ 1,492,545
47		<b>Totals</b>		<b>\$ 3,779,113</b>	<b>\$ 697,834</b>	<b>\$ 4,476,947</b>	<b>\$ 21,284,344</b>	<b>\$ 11,645,896</b>	<b>\$ 32,930,239</b>

**Fiscal Year 2018 Bill Pool Allocators**

		RI Electric	RI Gas
All US Electric and Gas Distribution Companies--Number of Customers	C-175	6.94%	3.77%
All US Gas Distribution Companies--Number of Customers	C-210	0.00%	7.37%
All US Electric and Gas Distribution Companies--General 3-Point Allocator (1)	G-012	8.37%	2.85%

- (1) 3-Point Allocator is based on weighting of each company's (1) Net Plant, (2) Net Margin & (3) Net Operations & Maintenance Expense

The Narragansett Electric Company  
Gas Business Enablement  
Total forecasted GBE Program spend by jurisdiction

Line	Portfolio Anchor Workstream		Allocation Code	MA-Gas Share			MA-Electric Share		
				CapEx	Non-CapEx	Total MA Gas	CapEx	Non-CapEx	Total MA Electric
<b>Cap Ex Investment</b>									
1	PA1-3	Asset Management	C-210	\$ 6,862,927	\$ -	\$ 6,862,927	\$ -	\$ -	\$ -
2	PA1-3	Asset Management / GIS	C-210	\$ 14,125,267	\$ -	\$ 14,125,267	\$ -	\$ -	\$ -
3	PA1-3	Work Management (Maximo)	C-210	\$ 19,245,065	\$ -	\$ 19,245,065	\$ -	\$ -	\$ -
4	PA4	Asset Management	C-210	\$ 2,769,641	\$ -	\$ 2,769,641	\$ -	\$ -	\$ -
5	PA4	Asset Management / GIS	C-210	\$ 2,868,336	\$ -	\$ 2,868,336	\$ -	\$ -	\$ -
6	PA4	Work Management (Maximo)	C-210	\$ 5,730,290	\$ -	\$ 5,730,290	\$ -	\$ -	\$ -
7	PA5	Asset Management	C-210	\$ 1,866,376	\$ -	\$ 1,866,376	\$ -	\$ -	\$ -
8	PA5	Asset Management / GIS	C-210	\$ 1,412,406	\$ -	\$ 1,412,406	\$ -	\$ -	\$ -
9	PA5	Work Management (Maximo)	C-210	\$ 2,182,484	\$ -	\$ 2,182,484	\$ -	\$ -	\$ -
10	PA6	Asset Management	C-210	\$ 848,670	\$ -	\$ 848,670	\$ -	\$ -	\$ -
11	PA6	Asset Management / GIS	C-210	\$ 600,257	\$ -	\$ 600,257	\$ -	\$ -	\$ -
12	PA6	Work Management (Maximo)	C-210	\$ 660,336	\$ -	\$ 660,336	\$ -	\$ -	\$ -
13	PA1-3	Customer Engagement	C-175	\$ 2,742,500	\$ -	\$ 2,742,500	\$ 4,029,266	\$ -	\$ 4,029,266
14	PA4	Customer Engagement	C-175	\$ 680,514	\$ -	\$ 680,514	\$ 999,807	\$ -	\$ 999,807
15	PA1-3	WM-SDM	C-175	\$ 2,689,206	\$ -	\$ 2,689,206	\$ 3,950,966	\$ -	\$ 3,950,966
16	PA4	WM-SDM	C-210	\$ 1,787,022	\$ -	\$ 1,787,022	\$ -	\$ -	\$ -
17	PA5	WM-SDM	C-210	\$ 174,391	\$ -	\$ 174,391	\$ -	\$ -	\$ -
18	PA6	WM-SDM	C-210	\$ 140,110	\$ -	\$ 140,110	\$ -	\$ -	\$ -
19	PA1-3	Supply Chain	C-210	\$ 2,177,632	\$ -	\$ 2,177,632	\$ -	\$ -	\$ -
20	PA4	Supply Chain	C-210	\$ 568,888	\$ -	\$ 568,888	\$ -	\$ -	\$ -
21	PA1-3	Hardware (CapEx)	C-175	\$ 630,379	\$ -	\$ 630,379	\$ 926,150	\$ -	\$ 926,150
22	PA4	Hardware (CapEx)	C-210	\$ 333,619	\$ -	\$ 333,619	\$ -	\$ -	\$ -
23	PA5	Hardware (CapEx)	C-210	\$ 259,770	\$ -	\$ 259,770	\$ -	\$ -	\$ -
24	PA6	Hardware (CapEx)	C-210	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
25	PA1-3	PP Enhancements (CapEx)	G-012	\$ 109,685	\$ -	\$ 109,685	\$ 202,724	\$ -	\$ 202,724
<b>Non-Cap Ex Investment</b>									
26		Business Enablement & Change Management	C-210	\$ -	\$ 3,175,080	\$ 3,175,080	\$ -	\$ -	\$ -
27		Data Management	C-210	\$ -	\$ 338,435	\$ 338,435	\$ -	\$ -	\$ -
28		IS Enabling	C-210	\$ -	\$ 2,055,114	\$ 2,055,114	\$ -	\$ -	\$ -
29		Operating Model	C-210	\$ -	\$ 352,893	\$ 352,893	\$ -	\$ -	\$ -
30		Portfolio Office	C-210	\$ -	\$ 8,681,217	\$ 8,681,217	\$ -	\$ -	\$ -
31		Strategic BECM	C-210	\$ -	\$ 2,874,107	\$ 2,874,107	\$ -	\$ -	\$ -
32		Software	C-210	\$ -	\$ 3,431,011	\$ 3,431,011	\$ -	\$ -	\$ -
33		Hardware	C-210	\$ -	\$ 932,005	\$ 932,005	\$ -	\$ -	\$ -
34		Power Plant Enhancements	G-012	\$ -	\$ 203,701	\$ 203,701	\$ -	\$ 376,488	\$ 376,488
35		Tech Training - Labor	C-210	\$ -	\$ 4,886,150	\$ 4,886,150	\$ -	\$ -	\$ -
36		Data Migration	C-210	\$ -	\$ 176,538	\$ 176,538	\$ -	\$ -	\$ -
37		Value Assurance	C-210	\$ -	\$ 643,240	\$ 643,240	\$ -	\$ -	\$ -
38		Phase 1	C-210	\$ -	\$ 1,516,747	\$ 1,516,747	\$ -	\$ -	\$ -
39		Asset Management	C-210	\$ -	\$ 451,165	\$ 451,165	\$ -	\$ -	\$ -
40		Asset Management / GIS	C-210	\$ -	\$ 541,979	\$ 541,979	\$ -	\$ -	\$ -
41		Work Management (Maximo)	C-210	\$ -	\$ 1,597,211	\$ 1,597,211	\$ -	\$ -	\$ -
42		Customer Engagement	C-175	\$ -	\$ 262,339	\$ 262,339	\$ -	\$ 385,427	\$ 385,427
43		WM-SDM (PA 1-3)	C-175	\$ -	\$ 729,695	\$ 729,695	\$ -	\$ 1,072,063	\$ 1,072,063
44		WM-SDM (PA 4-6)	C-210	\$ -	\$ 548,312	\$ 548,312	\$ -	\$ -	\$ -
45		Supply Chain	C-210	\$ -	\$ 714,382	\$ 714,382	\$ -	\$ -	\$ -
46		FY17 Non-CapEx Investment	G-210	\$ -	\$ 5,740,557	\$ 5,740,557	\$ -	\$ -	\$ -
47		<b>Totals</b>		<b>\$ 71,465,771</b>	<b>\$ 39,851,877</b>	<b>\$ 111,317,648</b>	<b>\$ 10,108,913</b>	<b>\$ 1,833,979</b>	<b>\$ 11,942,892</b>

**Fiscal Year 2018 Bill Pool Allocators**

		MA Gas	MA Electric
All US Electric and Gas Distribution Companies--Number of Customers	C-175	12.66%	18.60%
All US Gas Distribution Companies--Number of Customers	C-210	24.74%	0.00%
All US Electric and Gas Distribution Companies--General 3-Point Allocator (1)	G-012	11.07%	20.46%

(1) 3-Point Allocator is based on weighting of each company's (1) Net Plant,  
(2) Net Margin & (3) Net Operations & Maintenance Expense

The Narragansett Electric Company  
Gas Business Enablement  
Total forecasted GBE Program spend by jurisdiction

Line	Portfolio Anchor	Workstream	Allocation Code	NY-Electric Share			NY-Gas Share		
				CapEx	Non-CapEx	Total NY Electric	CapEx	Non-CapEx	Total NY Gas
<b>Cap Ex Investment</b>									
1	PA1-3	Asset Management	C-210	\$ -	\$ -	\$ -	\$ 18,832,825	\$ -	\$ 18,832,825
2	PA1-3	Asset Management / GIS	C-210	\$ -	\$ -	\$ -	\$ 38,761,696	\$ -	\$ 38,761,696
3	PA1-3	Work Management (Maximo)	C-210	\$ -	\$ -	\$ -	\$ 52,811,135	\$ -	\$ 52,811,135
4	PA4	Asset Management	C-210	\$ -	\$ -	\$ -	\$ 7,600,280	\$ -	\$ 7,600,280
5	PA4	Asset Management / GIS	C-210	\$ -	\$ -	\$ -	\$ 7,871,112	\$ -	\$ 7,871,112
6	PA4	Work Management (Maximo)	C-210	\$ -	\$ -	\$ -	\$ 15,724,712	\$ -	\$ 15,724,712
7	PA5	Asset Management	C-210	\$ -	\$ -	\$ -	\$ 5,121,596	\$ -	\$ 5,121,596
8	PA5	Asset Management / GIS	C-210	\$ -	\$ -	\$ -	\$ 3,875,839	\$ -	\$ 3,875,839
9	PA5	Work Management (Maximo)	C-210	\$ -	\$ -	\$ -	\$ 5,989,040	\$ -	\$ 5,989,040
10	PA6	Asset Management	C-210	\$ -	\$ -	\$ -	\$ 2,328,867	\$ -	\$ 2,328,867
11	PA6	Asset Management / GIS	C-210	\$ -	\$ -	\$ -	\$ 1,647,188	\$ -	\$ 1,647,188
12	PA6	Work Management (Maximo)	C-210	\$ -	\$ -	\$ -	\$ 1,812,055	\$ -	\$ 1,812,055
13	PA1-3	Customer Engagement	C-175	\$ 5,043,081	\$ -	\$ 5,043,081	\$ 7,527,795	\$ -	\$ 7,527,795
14	PA4	Customer Engagement	C-175	\$ 1,251,371	\$ -	\$ 1,251,371	\$ 1,867,919	\$ -	\$ 1,867,919
15	PA1-3	WM-SDM	C-175	\$ 4,945,080	\$ -	\$ 4,945,080	\$ 7,381,508	\$ -	\$ 7,381,508
16	PA4	WM-SDM	C-210	\$ -	\$ -	\$ -	\$ 4,903,837	\$ -	\$ 4,903,837
17	PA5	WM-SDM	C-210	\$ -	\$ -	\$ -	\$ 478,554	\$ -	\$ 478,554
18	PA6	WM-SDM	C-210	\$ -	\$ -	\$ -	\$ 384,481	\$ -	\$ 384,481
19	PA1-3	Supply Chain	C-210	\$ -	\$ -	\$ -	\$ 5,975,724	\$ -	\$ 5,975,724
20	PA4	Supply Chain	C-210	\$ -	\$ -	\$ -	\$ 1,561,109	\$ -	\$ 1,561,109
21	PA1-3	Hardware (CapEx)	C-175	\$ 1,159,181	\$ -	\$ 1,159,181	\$ 1,730,307	\$ -	\$ 1,730,307
22	PA4	Hardware (CapEx)	C-210	\$ -	\$ -	\$ -	\$ 915,497	\$ -	\$ 915,497
23	PA5	Hardware (CapEx)	C-210	\$ -	\$ -	\$ -	\$ 712,845	\$ -	\$ 712,845
24	PA6	Hardware (CapEx)	C-210	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
25	PA1-3	PP Enhancements (CapEx)	G-012	\$ 211,147	\$ -	\$ 211,147	\$ 254,050	\$ -	\$ 254,050
<b>Non-Cap Ex Investment</b>									
26		Business Enablement & Change Management	C-210	\$ -	\$ -	\$ -	\$ -	\$ 8,712,860	\$ 8,712,860
27		Data Management	C-210	\$ -	\$ -	\$ -	\$ -	\$ 928,713	\$ 928,713
28		IS Enabling	C-210	\$ -	\$ -	\$ -	\$ -	\$ 5,639,517	\$ 5,639,517
29		Operating Model	C-210	\$ -	\$ -	\$ -	\$ -	\$ 968,386	\$ 968,386
30		Portfolio Office	C-210	\$ -	\$ -	\$ -	\$ -	\$ 23,822,467	\$ 23,822,467
31		Strategic BECM	C-210	\$ -	\$ -	\$ -	\$ -	\$ 7,886,950	\$ 7,886,950
32		Software	C-210	\$ -	\$ -	\$ -	\$ -	\$ 9,415,170	\$ 9,415,170
33		Hardware	C-210	\$ -	\$ -	\$ -	\$ -	\$ 2,557,552	\$ 2,557,552
34		Power Plant Enhancements	G-012	\$ -	\$ 392,129	\$ 392,129	\$ -	\$ 471,806	\$ 471,806
35		Tech Training - Labor	C-210	\$ -	\$ -	\$ -	\$ -	\$ 13,408,275	\$ 13,408,275
36		Data Migration	C-210	\$ -	\$ -	\$ -	\$ -	\$ 484,445	\$ 484,445
37		Value Assurance	C-210	\$ -	\$ -	\$ -	\$ -	\$ 1,765,140	\$ 1,765,140
38		Phase 1	C-210	\$ -	\$ -	\$ -	\$ -	\$ 4,162,163	\$ 4,162,163
39		Asset Management	C-210	\$ -	\$ -	\$ -	\$ -	\$ 1,238,058	\$ 1,238,058
40		Asset Management / GIS	C-210	\$ -	\$ -	\$ -	\$ -	\$ 1,487,265	\$ 1,487,265
41		Work Management (Maximo)	C-210	\$ -	\$ -	\$ -	\$ -	\$ 4,382,970	\$ 4,382,970
42		Customer Engagement	C-175	\$ -	\$ 482,405	\$ 482,405	\$ -	\$ 720,086	\$ 720,086
43		WM-SDM (PA 1-3)	C-175	\$ -	\$ 1,341,808	\$ 1,341,808	\$ -	\$ 2,002,914	\$ 2,002,914
44		WM-SDM (PA 4-6)	C-210	\$ -	\$ -	\$ -	\$ -	\$ 1,504,644	\$ 1,504,644
45		Supply Chain	C-210	\$ -	\$ -	\$ -	\$ -	\$ 1,960,364	\$ 1,960,364
46		FY17 Non-CapEx Investment	G-210	\$ -	\$ -	\$ -	\$ -	\$ 12,909,205	\$ 12,909,205
47		<b>Totals</b>		\$ 12,609,860	\$ 2,216,343	\$ 14,826,203	\$ 196,069,971	\$ 106,428,952	\$ 302,498,923

**Fiscal Year 2018 Bill Pool Allocators**

		NY Electric	NY Gas
All US Electric and Gas Distribution Companies--Number of Customers	C-175	23.28%	34.75%
All US Gas Distribution Companies--Number of Customers	C-210	0.00%	67.89%
All US Electric and Gas Distribution Companies--General 3-Point Allocator (1)	G-012	21.31%	25.64%

(1) 3-Point Allocator is based on weighting of each company's (1) Net Plant,  
(2) Net Margin & (3) Net Operations & Maintenance Expense

The Narragansett Electric Company  
Gas Business Enablement  
Total forecasted GBE Program spend by jurisdiction

Line	Portfolio		Allocation Code	Total GBE	
	Anchor	Workstream		NGUSA Parent Co.	Total GBE
<b>Cap Ex Investment</b>					
1	PA1-3	Asset Management	C-210	\$ -	\$ 27,740,204
2	PA1-3	Asset Management / GIS	C-210	\$ -	\$ 57,094,854
3	PA1-3	Work Management (Maximo)	C-210	\$ -	\$ 77,789,270
4	PA4	Asset Management	C-210	\$ -	\$ 11,194,992
5	PA4	Asset Management / GIS	C-210	\$ -	\$ 11,593,919
6	PA4	Work Management (Maximo)	C-210	\$ -	\$ 23,162,044
7	PA5	Asset Management	C-210	\$ -	\$ 7,543,962
8	PA5	Asset Management / GIS	C-210	\$ -	\$ 5,708,998
9	PA5	Work Management (Maximo)	C-210	\$ -	\$ 8,821,682
10	PA6	Asset Management	C-210	\$ -	\$ 3,430,354
11	PA6	Asset Management / GIS	C-210	\$ -	\$ 2,426,260
12	PA6	Work Management (Maximo)	C-210	\$ -	\$ 2,669,104
13	PA1-3	Customer Engagement	C-175	\$ -	\$ 21,662,720
14	PA4	Customer Engagement	C-175	\$ -	\$ 5,375,307
15	PA1-3	WM-SDM	C-175	\$ -	\$ 21,241,751
16	PA4	WM-SDM	C-210	\$ -	\$ 7,223,210
17	PA5	WM-SDM	C-210	\$ -	\$ 704,896
18	PA6	WM-SDM	C-210	\$ -	\$ 566,330
19	PA1-3	Supply Chain	C-210	\$ -	\$ 8,802,068
20	PA4	Supply Chain	C-210	\$ -	\$ 2,299,468
21	PA1-3	Hardware (CapEx)	C-175	\$ -	\$ 4,979,300
22	PA4	Hardware (CapEx)	C-210	\$ -	\$ 1,348,500
23	PA5	Hardware (CapEx)	C-210	\$ -	\$ 1,050,000
24	PA6	Hardware (CapEx)	C-210	\$ -	\$ -
25	PA1-3	PP Enhancements (CapEx)	G-012	\$ 102,056	\$ 990,833
<b>Non-Cap Ex Investment</b>					
26		Business Enablement & Change Management	C-210	\$ -	\$ 12,833,790
27		Data Management	C-210	\$ -	\$ 1,367,967
28		IS Enabling	C-210	\$ -	\$ 8,306,845
29		Operating Model	C-210	\$ -	\$ 1,426,405
30		Portfolio Office	C-210	\$ -	\$ 35,089,803
31		Strategic BECM	C-210	\$ -	\$ 11,617,248
32		Software	C-210	\$ -	\$ 13,868,273
33		Hardware	C-210	\$ -	\$ 3,767,200
34		Power Plant Enhancements	G-012	\$ 189,532	\$ 1,840,119
35		Tech Training - Labor	C-210	\$ -	\$ 19,750,000
36		Data Migration	C-210	\$ -	\$ 713,574
37		Value Assurance	C-210	\$ -	\$ 2,600,000
38		Phase 1	C-210	\$ -	\$ 6,130,746
39		Asset Management	C-210	\$ -	\$ 1,823,624
40		Asset Management / GIS	C-210	\$ -	\$ 2,190,698
41		Work Management (Maximo)	C-210	\$ -	\$ 6,455,987
42		Customer Engagement	C-175	\$ -	\$ 2,072,189
43		WM-SDM (PA 1-3)	C-175	\$ -	\$ 5,763,782
44		WM-SDM (PA 4-6)	C-210	\$ -	\$ 2,216,297
45		Supply Chain	C-210	\$ -	\$ 2,887,559
46		FY17 Non-CapEx Investment	G-210	\$ -	\$ 20,142,307
47		<b>Totals</b>		<b>\$ 291,588</b>	<b>\$ 478,284,441</b>

**Fiscal Year 2018 Bill Pool Allocators**

	Parent/Non Regulated
All US Electric and Gas Distribution Companies--Number of Customers	C-175
All US Gas Distribution Companies--Number of Customers	C-210
All US Electric and Gas Distribution Companies--General 3-Point Allocator (1)	G-012 10.30%

- (1) 3-Point Allocator is based on weighting of each company's (1) Net Plant,  
(2) Net Margin & (3) Net Operations & Maintenance Expense

The Narragansett Electric Company  
 Gas Business Enablement  
 Key Project Implementation Dates

Line	Portfolio Anchor	Workstream	RI-Electric	RI-Gas	MA	NMPC	KEDNY	KEDLI
<b>Cap Ex Investment</b>								
1	PA1-3	Asset Management	Oct-18	Oct-18	Jan-19	Apr-19	Jul-19	Oct-19
2	PA1-3	Asset Management / GIS	Oct-18	Oct-18	Jan-19	Apr-19	Jul-19	Oct-19
3	PA1-3	Work Management (Maximo)	Mar-18	Mar-18	Jan-19	Apr-19	Jul-19	Oct-19
4	PA4	Asset Management	Apr-20	Apr-20	Jun-20	Apr-19	Jul-19	Oct-19
5	PA4	Asset Management / GIS	Apr-20	Apr-20	Jun-20	Jul-20	Aug-20	Sep-20
6	PA4	Work Management (Maximo)	Apr-20	Apr-20	Jun-20	Jul-20	Aug-20	Sep-20
7	PA5	Asset Management	Apr-21	Apr-21	Apr-21	Apr-21	Apr-21	Apr-21
8	PA5	Asset Management / GIS	Apr-21	Apr-21	Apr-21	Apr-21	Apr-21	Apr-21
9	PA5	Work Management (Maximo)	Apr-21	Apr-21	Apr-21	Apr-21	Apr-21	Apr-21
10	PA6	Asset Management	Jul-21	Jul-21	Jul-21	Jul-21	Jul-21	Jul-21
11	PA6	Asset Management / GIS	Jul-21	Jul-21	Jul-21	Jul-21	Jul-21	Jul-21
12	PA6	Work Management (Maximo)	Jul-21	Jul-21	Jul-21	Jul-21	Jul-21	Jul-21
13	PA1-3	Customer Engagement	Oct-18	Oct-18	Jan-19	Apr-19	Jul-19	Oct-19
14	PA4	Customer Engagement	Apr-20	Apr-20	Jun-20	Jul-20	Aug-20	Sep-20
15	PA1-3	WM-SDM	Oct-18	Oct-18	Jan-19	Apr-19	Jul-19	Oct-19
16	PA4	WM-SDM	Apr-20	Apr-20	Jun-20	Jul-20	Aug-20	Sep-20
17	PA5	WM-SDM	Apr-21	Apr-21	Apr-21	Apr-21	Apr-21	Apr-21
18	PA6	WM-SDM	Jul-21	Jul-21	Jul-21	Jul-21	Jul-21	Jul-21
19	PA1-3	Supply Chain	Oct-18	Oct-18	Jan-19	Apr-19	Jul-19	Oct-19
20	PA4	Supply Chain	Apr-20	Apr-20	Jun-20	Jul-20	Aug-20	Sep-20
21	PA1-3	Hardware (CapEx)	Oct-18	Oct-18	Jan-19	Apr-19	Jul-19	Oct-19
22	PA4	Hardware (CapEx)	Apr-20	Apr-20	Jun-20	Jul-20	Aug-20	Sep-20
23	PA5	Hardware (CapEx)	Apr-21	Apr-21	Apr-21	Apr-21	Apr-21	Apr-21
24	PA6	Hardware (CapEx)	Jul-21	Jul-21	Jul-21	Jul-21	Jul-21	Jul-21
25	PA1-3	PP Enhancements (CapEx)	Aug-17	Aug-17	Aug-17	Aug-17	Aug-17	Aug-17

The Narragansett Electric Company  
Gas Business Enablement  
Service Company Allocation Codes Utilized

**Allocation Codes**

All US Electric and Gas Distribution Companies--Number of Customers	C-175
All US Gas Distribution Companies--Number of Customers	C-210
All US Electric and Gas Distribution Companies--General 3-Point Allocator (1)	G-012
All US Gas Distribution Companies--General 3-Point Allocator (1)	G-210

(1) 3-Point Allocator is based on weighting of each companies' (1) Net Plant, (2) Net Margin and  
(3) Net Operations & Maintenance Expense

**Fiscal Year 2018 Allocation Percentages**

	<u>C-175</u>	<u>C-210</u>	<u>G-012</u>
RIELEC	6.94%	0.00%	8.37%
RIGAS	3.77%	7.37%	2.85%
<b>RI</b>	<b>10.71%</b>	<b>7.37%</b>	<b>11.22%</b>

BOS	9.80%	19.15%	9.03%
COL	2.86%	5.59%	2.04%
MECO/NANT	18.60%	0.00%	20.46%
<b>MA</b>	<b>31.26%</b>	<b>24.74%</b>	<b>31.53%</b>

NMPC - Elec	23.28%	0.00%	21.31%
NMPC - Gas	8.67%	16.93%	4.75%
KEDNY	17.83%	34.83%	12.38%
KEDLI	8.25%	16.13%	8.51%

<b>NY</b>	<b>58.03%</b>	<b>67.89%</b>	<b>46.95%</b>
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**Parent/Non Regulated Companies**

		<b>10.30%</b>
100.00%	100.00%	100.00%

**Fiscal Year 2017 Allocation Percentages**

	<u>G-210</u>
RIELEC	0.00%
RIGAS	7.41%
<b>RI</b>	<b>7.41%</b>

BOS	23.29%
COL	5.21%
MECO/NANT	0.00%
<b>MA</b>	<b>28.50%</b>

NMPC	12.44%
KEDNY	30.10%
KEDLI	21.55%
<b>NY</b>	<b>64.09%</b>

100.00%

Division 26-2

Request:

Please refer to the version of Attachment DPU-NG 1-10-1 included in your response to 25-1 above and answer the following:

- a. Why does the Company use each of the allocation factors identified in the footnote entitled "Fiscal Year 2018 Bill Pool Allocators"?
- b. Why and when does the Company use a "General 3-Point Allocator" versus another allocator.
- c. What is the difference between the allocator corresponding to G-210 shown on page 6 of 6, and the allocator corresponding to G-012, shown on pages 1-5, of Attachment DPU-NG 1-10-1?
- d. Why does only page 4 of 6 include cost allocation of only Non-Cap Ex Investment to NGUSA Parent Co.?
- e. How is the cost allocation to NGUSA Parent Co. calculated? Include in your response more detail beyond restating the title of the allocator, as well as a description of the activities and personnel expense supported by this cost.
- f. Confirm how many line items in Attachment DPU-NG 1-10-1 have allocated cost to NGUSA Parent Co., and explain why only those line items apply to NGUSA Parent Co.

Response:

- a. In Attachment DPU-NG-1-10-1, Gas Business Enablement costs are allocated using three allocators under the guidelines of the National Grid USA Cost Allocation Manual, a copy of which was provided as Attachment PUC 1-76-2 with the Company's response to PUC 1-76. The costs associated with the majority of the Gas Business Enablement Program workstreams will be allocated based on allocator C-210 (see Attachment PUC 1-76-2, Page 20 of 282), which allocates to All US Gas Distribution Companies based on the number of customers, because only gas companies will benefit from these work streams.

The costs associated with the Scheduling, Dispatch, Mobility, and Customer Engagement work streams are allocated based on allocator C-175, which allocates to All US Electric and Gas Distribution Companies based on the number of customers (see Attachment PUC 1-76-2, Page 18 of 282), because both gas and electric distribution companies will benefit from these work streams.

The PowerPlan Enhancement work stream is allocated based on allocator G-012 (see Attachment PUC 1-76-2, Pages 41-42 of 282), which allocates to All Companies based on a 3-point allocator for Net Margins, Net Plant, and Net O&M Expenses. This is consistent with previous PowerPlan projects.

- b. A general 3-point allocator will be utilized when no measurable cost causative basis exists. Examples of cost causative bases include number of customers and number of employees. Please see the Company's responses to PUC 1-76 and PUC 5-1.
- c. The G-210 allocator is based on All Gas Retails only (see Attachment PUC 1-76-2, Page 101 of 282), and the G-012 allocator is based on All Companies (see Attachment PUC 1-76-2, Pages 41-42 of 282). Both allocators are allocated using a 3-point allocation methodology for Net Margins, Net Plant, and Net O&M Expenses.
- d. Please refer to the Company's response to Division 26-1 and Attachment DIV 26-1-1. Under the Non-Cap Ex Investment section, the allocator for the PowerPlan Enhancement Workstream was updated from C-210 to G-012. This matches the allocator for the PowerPlan Enhancement Workstream under the Cap Ex Investment section.
- e. As outlined in the response to part a. above, Gas Business Enablement only has a single work stream that allocates to National Grid USA. SAP allocator G-012 allocates to All Companies, including National Grid USA. Please refer to the response to part a. above for a discussion of the specific methodology utilized to allocate costs to the different companies, including National Grid USA.
- f. Please refer to the third paragraph of the response to part a. above for the workstream that allocates to National Grid USA.

Division 26-3

Request:

Please explain how many other unregulated affiliates of the Company besides NGUSA Parent Co. benefit from the planned investment in GBE?

Response:

The PowerPlan Enhancement Workstream is the only Gas Business Enablement investment that is allocated to National Grid USA Parent Company and other unregulated affiliates of the Company through SAP allocator G-012 because it benefits all National Grid companies. This allocation treatment is consistent with previous PowerPlan projects. Please refer to Attachment DIV 26-3, column "SAP Segment", which shows how G-012 is allocated to all companies including National Grid USA Parent Company and other unregulated affiliates.

Description	SAP Alloc. Code	SAP Co./Seg	SAP Co. Code	SAP Segment	Company Description	3 Pt. Allocatio n %	3 Pt. Allocatio n %	Net Margin	Net Plant	Net O&M
<b>All Companies (largest set)</b>	<b>G-012</b>	5020R	5020	PARENT	National Grid USA Parent	0.09%	0.09%	\$ -	\$ -	\$ 10,678,534
	<b>G-012</b>	5030R	5030	PARENT	NIMO Holdings	0.00%	0.00%	\$ -	\$ -	\$ 22,171
	<b>G-012</b>	5040R	5040	PARENT	KeySpan Energy Corp.	0.01%	0.01%	\$ -	\$ -	\$ 669,841
	<b>G-012</b>	5210E	5210	NYELEC	Niagara Mohawk Power Corp. - Electric Distr.	15.72%	15.72%	\$ 1,198,921,609	\$ 4,264,491,304	\$ 619,066,340
	<b>G-012</b>	5210G	5210	NYGASD	Niagara Mohawk Power Corp. - Gas	4.75%	4.75%	\$ 346,680,591	\$ 1,491,438,437	\$ 165,095,195
	<b>G-012</b>	5210T	5210	NYTRAN	Niagara Mohawk Power Corp. - Transmission	5.59%	5.59%	\$ 385,690,791	\$ 2,415,788,723	\$ 106,731,443
	<b>G-012</b>	5220G	5220	NYGASD	KeySpan Energy Delivery New York	12.38%	12.38%	\$ 993,070,386	\$ 3,676,541,909	\$ 416,418,656
	<b>G-012</b>	5230G	5230	NYGASD	KeySpan Energy Delivery Long Island	8.51%	8.51%	\$ 668,892,495	\$ 2,981,821,126	\$ 225,375,331
	<b>G-012</b>	5310E	5310	MAELEC	Massachusetts Electric Company	20.02%	20.02%	\$ 1,598,840,493	\$ 2,680,685,854	\$ 1,159,865,088
	<b>G-012</b>	5310T	5310	FRTRAN	Massachusetts Electric Company - Transmission	0.17%	0.17%	\$ 17,339,390	\$ 52,007,344	\$ 4,203,096
	<b>G-012</b>	5320E	5320	MAELEC	Nantucket Electric Company	0.27%	0.27%	\$ 22,878,224	\$ 68,758,022	\$ 10,060,149
	<b>G-012</b>	5330G	5330	MAGASD	Boston Gas Company	9.03%	9.03%	\$ 716,665,901	\$ 2,406,613,994	\$ 347,617,727
	<b>G-012</b>	5340G	5340	MAGASD	Colonial Gas Company	2.04%	2.04%	\$ 161,327,519	\$ 581,444,275	\$ 73,390,098
	<b>G-012</b>	5360E	5360	RIELEC	Narragansett Electric Company	6.60%	6.60%	\$ 574,052,546	\$ 926,658,890	\$ 353,600,201
	<b>G-012</b>	5360G	5360	RIGASD	Narragansett Gas Company	2.85%	2.85%	\$ 231,782,063	\$ 761,289,647	\$ 106,868,890
	<b>G-012</b>	5360T	5360	FRTRAN	Narragansett Electric Company - Transmission	1.77%	1.77%	\$ 133,930,510	\$ 862,645,421	\$ 13,013,773
	<b>G-012</b>	5410T	5410	FRTRAN	New England Power Company - Transmission	5.00%	5.00%	\$ 378,086,156	\$ 2,221,166,435	\$ 69,879,050
	<b>G-012</b>	5411F	5411	FRELEC	NE Hydro - Trans Electric Co.	0.17%	0.17%	\$ 16,753,717	\$ 31,800,443	\$ 7,178,838
	<b>G-012</b>	5412F	5412	FRELEC	New England Hydro - Trans Corp.	0.11%	0.11%	\$ 11,910,006	\$ 4,272,818	\$ 6,000,534
	<b>G-012</b>	5413F	5413	FRELEC	New England Electric Trans Corp	0.01%	0.01%	\$ 1,374,412	\$ 0	\$ 204,770
	<b>G-012</b>	5420G	5420	FRGASO	NG LNG LP Regulated Entity	0.17%	0.17%	\$ 8,230,443	\$ 82,150,480	\$ 3,828,666
	<b>G-012</b>	5430P	5430	FRPGEN	KeySpan Generation LLC (PSA)	4.04%	4.04%	\$ 464,650,405	\$ 594,113,557	\$ 156,428,992
	<b>G-012</b>	5431P	5431	FRPGEN	KeySpan Glenwood Energy Center	0.13%	0.13%	\$ 11,845,255	\$ 38,062,111	\$ 4,152,842
	<b>G-012</b>	5432P	5432	FRPGEN	KeySpan Port Jefferson Energy Center	0.15%	0.15%	\$ 13,342,875	\$ 45,737,978	\$ 4,298,071
	<b>G-012</b>	5820R	5820	PARENT	Keyspan Energy Trading Services	0.00%	0.00%	\$ -	\$ 308,494	\$ 158,770
	<b>G-012</b>	5825N	5825	NONREG	Transgas Inc	0.08%	0.08%	\$ 3,982,586	\$ 7,837,743	\$ 6,208,446
	<b>G-012</b>	5840N	5840	NONREG	KeySpan Energy Development Corporation	0.18%	0.18%	\$ -	\$ 74,017,254	\$ 10,567,625
	<b>G-012</b>	5850N	5850	NONREG	KeySpan Services Inc.	0.16%	0.16%	\$ 14,478,322	\$ 6,613,711	\$ 11,009,061
					<b>Total</b>	<b>100.00%</b>	<b>100.00%</b>	<b>7,974,726,692</b>	<b>26,276,265,968</b>	<b>3,892,592,198</b>

Division 26-4

Request:

Refer to RI DPUC Docket No. 4770, Attachment PUC 9-18-1 and answer the following:

- a. Please provide the allocation factors used to assign total benefits forecasted in this table by line item and operating affiliate company. Include with your response an additional page that shows the total benefits for Gas Business Enablement for all affiliates.
- b. How are these benefits allocation factors determined? By compliance requirements, state regulations, or by contractual commitments to third parties or inter-company affiliates?
- c. Please provide a cross reference listing for the information in each line item in of Attachment PUC 9-18-1, defined by the values in the first four columns "Initiative Description", "Benefit Description", "Detail and "Benefit Type", to the Line Items 1 through 25 shown in D.P.U. 17-170, Attachment DPU-NG 1-10-1.
- d. Confirm whether the response to a. above requires the assignment of more than one of line items 1-25 to each benefit line item and provide the sub-allocation factors for each of these Investment line items.

Response:

- a. Please refer to Attachment DIV 26-4, which provides the same information contained in the first three columns of Attachment DIV 9-18-1 with an additional column labeled "Benefits Calculation and Baseline" to show how each benefit was developed, including the allocation factors that were used for forecasted benefits.
- b. Of the benefits listed on Page 1 of Attachment DIV 26-4, 23 of the 26 benefits were developed using jurisdiction-specific data. Some examples are travel miles, call volumes, Customer Meter Services (CMS) planned jobs, and CMS collections jobs. Three benefits used the G-210 general allocator, which allocates based on All Gas Retails. A general allocator was utilized only when jurisdiction-specific data was unavailable.
- c. The total benefits forecasted, which are provided in Attachment DIV 9-18-1, were developed to support the Gas Business Enablement business case and were not intended to be referenced to the Portfolio Anchor releases and the capital investments identified for each of the Portfolio Anchors. The Gas Business Enablement Program is proposed as a holistic transformation to reduce the current risk of reliably delivering core operations with a growing list of core systems that are aging with a corresponding reduction in support. The enhanced capabilities the program will deliver customer and business

benefits to ensure safe and reliable systems operations, provide the ability to work to more efficiently, drive improve the customer experience to better meet customer expectations, and eliminate compliance penalties. The benefits are driven through the implementation of the full solution over the duration of the program roadmap and therefore, will be realized as standard processes are deployed with each release of the solutions capabilities delivered to the business.

- d. As described in the response to part c., the Gas Business Enablement Program benefits do not map one for one to each of the capital investment line items in DPU 17-170, Attachment DPU-NG 1-10-1. The capital investments have been allocated to each operating company based on the standard allocation codes shown below for each of the workstreams shown in Attachment DPU-NG 1-10-1.

All US Electric and Gas Distribution Companies-- Number of Customers	C-175	All Retail Companies	100.00%
All US Gas Distribution Companies--Number of Customers	C-210	All Gas Retail Companies	100.00%
All Companies--General 3-Point Allocator	G-012	All Companies	100.00%

The Narragansett Electric Company d/b/a National Grid  
Gas Business Enablement (GBE)  
Total GBE Benefits Forecasted as a Result of GBE Implementation  
For Fiscal Years Ending March 31, 2019 through 2027

Initiative Description	Benefit Description	Benefit Calculation and Baseline	Benefit Type
Work Management & Field Enablement	Clerical / Back Office Productivity Improvement	25% Improvement in productivity; 177 clerks @ rate of \$25.09/Hr	Type I
Work Management & Field Enablement	CMS Collections Jobs - Reduction in Mileage	14% reduction in travel distance (assumed equal to travel time reduction); Base of 744,623 jobs/year x 2.30 miles per job = 1,715,508 miles; 240,171 miles reduction @ \$0.69/miles	Type II
Work Management & Field Enablement	CMS Collections Jobs - Reduction in Travel Time	14% reduction in Travel Time (Analysis Conducted on CMS Data using OptimoRoute Software); Base of 744,623 jobs/year with an average travel time of 8 min; 9,783,781 minutes of total travel time; 1,369,742 minutes benefit @ rate of \$34.93/Hr	Type II
Work Management & Field Enablement	CMS Planned Jobs - Reduction in Available Time via Autodispatch	3.1% Improvement in productivity; Base of 14,950 work days (All Operating Companies - number of CMS Field Techs both Gas & Electric) with 43+ minutes available (i.e. the time required to complete another job on average) @ \$18.05/job. Using G210 (All Gas Retailers) general allocator of this Enterprise wide benefit calculation applied to all jurisdictions	Type II
Work Management & Field Enablement	CMS Planned Jobs - Reduction in Mileage	2.5% reduction in travel distance; Base of 1,824,292 jobs/year x 4.17 miles per job = 6,448,700 miles; 161,218 miles reduction @ \$0.69/mile	Type II
Work Management & Field Enablement	CMS Planned Jobs - Reduction in Travel Time	2.5% reduction in travel time; Base of 1,824,292 jobs/year with an average travel time of 13 min; 385,323 hours of total travel time; 9,633 hours benefit @ rate of \$34.93/Hr	Type II
Work Management & Field Enablement	CMS Planned Jobs - Reduction in UTCs	2.5% reduction in Unable To Complete (UTC) jobs; Base of 279,607 UTC jobs with an average job time of 11 min; 3,550,425 minutes of total travel time; 88,761 minutes benefit @ rate of \$34.93/Hr	Type II
Engineering, Design, Estimating & Mobility	Complex Jobs - Engineering Productivity Improvement	4.5% Improvement in productivity average across NE & NY ; Base of 100 FTE; 6,697 hours saved per year @rate of \$52.53/Hr.	Type II
Engineering, Design, Estimating & Mobility	Complex Jobs - Estimating Accuracy Fine Avoidance	Increase estimating accuracy from <60% to 60% - 70% which will reduce penalties in NiagaraMohawk Gas from \$1.1M to \$500k.	Type II
Work Management & Field Enablement	Damage Prevention - Reduced Travel Mileage	2.5% reduction in travel distance; Base of 690,122 jobs x 4.17 miles per job = 2,881,186 miles; 49,700 miles reduction @ \$0.69/mile	Type I
Work Management & Field Enablement	Damage Prevention - Reduced Travel Time	2.5% reduction in travel time; Base of 690,122 jobs; average 12 mins of travel time per job; 8,245,687 minutes of total travel time; 206,142 minutes benefit @ rate of \$34.93/Hr	Type II
Integrated Supply & Demand Planning	Improved Project Delivery - Construction	10% cost reduction of addressable supply chain costs in construction project delivery. Addressable costs: 2% in cost associated with construction work delayed by Supply Chain; Base is \$1.237B in project spend. Using G210 (All Gas Retailers) general allocator of this Enterprise wide benefit calculation applied to all jurisdictions	Type II
Work Management & Field Enablement	Inspections - Reduced Travel Mileage	14% reduction in Travel Time (Analysis Conducted on CMS Data using OptimoRoute Software); Base of 23,740 jobs, 14 Minutes Travel Time per Job; 332,360 Minutes of Total Travel Time; 46,231 Minutes Benefit @ Rate of \$34.93/Hr	Type II
Work Management & Field Enablement	Inspections - Reduced Travel Time	14% reduction in travel distance (assumed equal to travel time reduction); Base of 23,740 jobs x 2.3 miles per job = 54,694 miles; 7,608 miles reduction @ \$0.69/mile	Type II
Work Management & Field Enablement	M&C and CMS Jobs - Reduced Summonses	40% reduction in the # of summonses; Base of \$11,134,103 for all type of code violations.	Type II
Work Management & Field Enablement	M&C Productivity Improvements - Base	3.0% Improvement in Productivity; Base of 4,693,250 Straight Time Hours; 140,798 Hours Benefit (15 Minutes per Day) @ OT Rate of \$52.40/Hr. Note: benefits taken on OT.	Type I
Customer Interaction	Reduce Move Call Volume through Self-Service	15% reduction in move call volumes; Base of 1,802,844 yearly calls @ \$3.35/call	Type II
Customer Interaction	Reduce Non-Move Call Volume through Self-Service	10% reduction in non-move call volumes; Base of 2,061,817 field related calls of which 61% are addressable; 125,262 avoided calls @ an average of \$4.70/call	Type II
Regulatory/ Compliance	Reduced Compliance and Gas Safety Penalties	100% reduction in gas safety and compliance penalties; Base of \$13,520,800 average penalties over the past 3 years	Type II
Engineering, Design, Estimating & Mobility	Reduced in mapping cycle time via digital field data entry	30% reduction in FTEs associated with manual mapping; Base is 33 FTEs serving the gas business @ \$64,302/year.	Type II
Asset - Advanced Analytics	Reduction / Redirection in Opex via AIPM	0.8% redirection of annual addressable O&M spend to other spend (Opex or Capex); Base is FY2017 Controllable O&M budget of \$240.4M .	Type I
Engineering, Design, Estimating & Mobility	Reduction in Damages due to Data Quality Errors	44% reduction in mismark damages due to record errors; Average annual damage cost for mismarks due to record errors is \$1,305,183. 20% reduction in mismark damages due to locator errors (internal); Average annual damage cost for mismarks due to locator errors is \$11,143	Type I
Data Management	Reduction in Data Cleansing / Scrubbing Effort - Analysts	7.5% Improvement in productivity; Base of 163 FTE @ rate of \$32.44/Hr	Type II
Work Management & Field Enablement	Reduction in Field Tech Communications	25% reduction in # of call aheads placed by technicians; 1,824,292 jobs x 1 min/call x 1 call/job; 456,073 minutes benefits @rate of \$34.93/Hr	Type II
Work Management & Field Enablement	Reduction in Meter Verification Jobs	37.5% reduction in number of meter verification jobs; Base of 96,020 jobs; 739,233 minutes of total time to complete meter verifications annually (including travel time); 277,212 minutes benefits @ rate of \$34.93/Hr	Type II
Customer Interaction	Reduction in Service Quality Penalties	17.5% reduction in service quality penalties; Base of \$5,080,813 average service quality penalties over the past 3 years	Type II

The Narragansett Electric Company d/b/a National Grid  
Gas Business Enablement (GBE)  
Total Narragansett Electric Company Benefits Forecasted as a Result of GBE Implementation  
For Fiscal Years Ending March 31, 2019 through 2027

Initiative Description	Benefit Description	Benefit Calculation and Baseline	Benefit Type
Work Management & Field Enablement	Clerical / Back Office Productivity Improvement	25% Improvement in productivity; 15 clerks @ rate of \$25.09/Hr	Type I
Work Management & Field Enablement	CMS Collections Jobs - Reduction in Mileage	14% reduction in travel distance (assumed equal to travel time reduction); Base of 87,838 jobs/year x 2.30 miles per job = 202,366 miles; 28,331 miles reduction @ \$0.69/miles	Type II
Work Management & Field Enablement	CMS Collections Jobs - Reduction in Travel Time	14% reduction in Travel Time (Analysis Conducted on CMS Data using OptimoRoute Software); Base of 87,838 jobs/year with an average travel time of 13 min; 1,134,014 minutes of total travel time; 158,762 minutes benefit @ rate of \$34.93/Hr	Type II
Work Management & Field Enablement	CMS Planned Jobs - Reduction in Available Time v	3.1% Improvement in productivity; Base of 14,950 work days (All Operating Companies - number of CMS Field Techs both Gas & Electric) with 43+ minutes available (i.e. the time required to complete another job on average) @ \$18.05/job. Using general allocator, 7.41% of this Enterprise wide benefit calculation applied to Narragansett	Type II
Work Management & Field Enablement	CMS Planned Jobs - Reduction in Mileage	2.5% reduction in travel distance; Base of 153,731 jobs/year x 4.17 miles per job = 570,779 miles; 14,269 miles reduction @ \$0.69/mile	Type II
Work Management & Field Enablement	CMS Planned Jobs - Reduction in Travel Time	2.5% reduction in travel time; Base of 153,731 jobs/year with an average travel time of 13 min; 33,206 hours of total travel time; 830 hours benefit @ rate of \$34.93/Hr	Type II
Work Management & Field Enablement	CMS Planned Jobs - Reduction in UTCs	2.5% reduction in Unable To Complete (UTC) jobs; Base of 17,014 UTC jobs with an average job time of 7 min; 127,249 minutes of total travel time; 3,181 minutes benefit @ rate of \$34.93/Hr	Type II
Engineering, Design, Estimating & Mobility	Complex Jobs - Engineering Productivity Improvement	6.3% Improvement in productivity in NE ; Base of 40 FTE; 3763 hours saved per year @rate of \$52.53/Hr. 21% of this NE benefit calculation applied to Narragansett	Type II
Work Management & Field Enablement	Damage Prevention - Reduced Travel Mileage	2.5% reduction in travel distance; Base of 61,581 jobs x 4.17 miles per job = 257,094 miles; 72,030 miles reduction @ \$0.69/mile	Type I
Work Management & Field Enablement	Damage Prevention - Reduced Travel Time	2.5% reduction in travel time; Base of 61,581 jobs; 12 mins of travel time per job; 738,972 minutes of total travel time; 18,474 minutes benefit @ rate of \$34.93/Hr	Type II
Integrated Supply & Demand Planning	Improved Project Delivery - Construction	10% cost reduction of addressable supply chain costs in construction project delivery. Addressable costs: 2% in cost associated with construction work delayed by Supply Chain; Base is \$1.237B in project spend. Using general allocator, 7.41% of this Enterprise wide benefit calculation applied to Narragansett	Type II
Work Management & Field Enablement	M&C Productivity Improvements - Base	3.0% Improvement in Productivity; Base of 366,822 Straight Time Hours; 11,005 Hours Benefit (15 Minutes per Day) @ OT Rate of \$52.40/Hr. Note: benefits taken on OT.	Type I
Customer Interaction	Reduce Move Call Volume through Self-Service	15% reduction in move call volumes; Base of 83,304 yearly calls @ \$4.25/call	Type II
Customer Interaction	Reduce Non-Move Call Volume through Self-Servic	10% reduction in non-move call volumes; Base of 144,724 field related calls of which 61% are addressable; 8,792 avoided calls @ an average of \$4.54/call	Type II
Regulatory/ Compliance	Reduced Compliance and Gas Safety Penalties	100% reduction in gas safety and compliance penalties; Base of \$187,133 average penalties over the past 3 years	Type II
Engineering, Design, Estimating & Mobility	Reduced in mapping cycle time via digital field data entry	30% reduction in FTEs associated with manual mapping; Base is 2 FTEs serving the gas business @ \$64,302/year.	Type II
Asset - Advanced Analytics	Reduction / Redirection in Opex via AIPM	0.8% redirection of annual addressable O&M spend to other spend (Opex or Capex); Base is FY2017 Controllable O&M budget of \$13.5M .	Type I
Engineering, Design, Estimating & Mobility	Reduction in Damages due to Data Quality Errors	44% reduction in mismark damages due to record errors; Average annual damage cost for mismarks due to record errors is \$529,602. 20% reduction in mismark damages due to locator errors (internal); Average annual damage cost for mismarks due to locator errors is \$2,513	Type I
Data Management	Reduction in Data Cleansing / Scrubbing Effort - Ar	7.5% Improvement in productivity; Base of 7 FTE @ rate of \$32.44/Hr	Type II
Work Management & Field Enablement	Reduction in Field Tech Communications	25% reduction in # of call aheads placed by technicians; 153,731 jobs x 1 min/call x 1 call/job; 38,433 minutes benefits @rate of \$34.93/Hr	Type II
Work Management & Field Enablement	Reduction in Meter Verification Jobs	37.5% reduction in number of meter verification jobs; Base of 1,218 jobs; 37,126 minutes of total time to complete meter verifications annually (including travel time); 13,922 minutes benefits @ rate of \$34.93/Hr	Type II

The Narragansett Electric Company d/b/a National Grid  
Gas Business Enablement (GBE)  
Total Boston Gas Company Benefits Forecasted as a Result of GBE Implementation  
For Fiscal Years Ending March 31, 2019 through 2027

Initiative Description	Benefit Description	Benefit Calculation and Baseline	Benefit Type
Work Management & Field Enablement	Clerical / Back Office Productivity Improvement	25% Improvement in productivity; 69 clerks @ rate of \$25.09/Hr	Type I
Work Management & Field Enablement	CMS Collections Jobs - Reduction in Mileage	14% reduction in travel distance (assumed equal to travel time reduction); Base of 184,607 jobs/year x 2.30 miles per job = 425,312 miles; 59,544 miles reduction @ \$0.69/miles	Type II
Work Management & Field Enablement	CMS Collections Jobs - Reduction in Travel Time	14% reduction in Travel Time (Analysis Conducted on CMS Data using OptimoRoute Software); Base of 184,607 jobs/year with an average travel time of 14 min; 2,584,513 minutes of total travel time; 361,832 minutes benefit @ rate of \$34.93/Hr	Type II
Work Management & Field Enablement	CMS Planned Jobs - Reduction in Available Time via Autodispatch	3.1% Improvement in productivity; Base of 14,950 work days (All Operating Companies - number of CMS Field Techs both Gas & Electric) with 43+ minutes available (i.e. the time required to complete another job on average) @ \$18.05/job. Using general allocator, 23.29% of this Enterprise wide benefit calculation applied to Boston Gas	Type II
Work Management & Field Enablement	CMS Planned Jobs - Reduction in Mileage	2.5% reduction in travel distance; Base of 409,475 jobs/year x 4.17 miles per job = 1,466,384 miles; 36,660 miles reduction @ \$0.69/mile	Type II
Work Management & Field Enablement	CMS Planned Jobs - Reduction in Travel Time	2.5% reduction in travel time; Base of 409,475 jobs/year with an average travel time of 14 min; 95,544 hours of total travel time; 2,389 hours benefit @ rate of \$34.93/Hr	Type II
Work Management & Field Enablement	CMS Planned Jobs - Reduction in UTCs	2.5% reduction in Unable To Complete (UTC) jobs; Base of 58,237 UTC jobs with an average job time of 10 min; 643,948 minutes of total travel time; 16,099 minutes benefit @ rate of \$34.93/Hr	Type II
Engineering, Design, Estimating & Mobility	Complex Jobs - Engineering Productivity Improvement	6.3% Improvement in productivity in NE ; Base of 40 FTE; 3763 hours saved per year @rate of \$52.53/Hr. 65% of this NE benefit calculation applied to Boston Gas	Type II
Work Management & Field Enablement	Damage Prevention - Reduced Travel Mileage	2.5% reduction in travel distance; Base of 130,880 jobs x 4.17 miles per job = 546,410 miles; 13,660 miles reduction @ \$0.69/mile	Type I
Work Management & Field Enablement	Damage Prevention - Reduced Travel Time	2.5% reduction in travel time; Base of 130,880 jobs; 14 mins of travel time per job; 1,832,320 minutes of total travel time; 45,808 minutes benefit @ rate of \$34.93/Hr	Type II
Integrated Supply & Demand Planning	Improved Project Delivery - Construction	10% cost reduction of addressable supply chain costs in construction project delivery. Addressable costs: 2% in cost associated with construction work delayed by Supply Chain; Base is \$1.237B in project spend. Using general allocator, 23.29% of this Enterprise wide benefit calculation applied to Boston Gas	Type II
Work Management & Field Enablement	Inspections - Reduced Travel Mileage	14% reduction in Travel Time (Analysis Conducted on CMS Data using OptimoRoute Software); Base of 21,666 jobs, 14 Minutes Travel Time per Job; 303,324 Minutes of Total Travel Time; 42,192 Minutes Benefit @ Rate of \$34.93/Hr	Type II
Work Management & Field Enablement	Inspections - Reduced Travel Time	14% reduction in travel distance (assumed equal to travel time reduction); Base of 21,666 jobs x 2.3 miles per job = 49,916 miles; 6,943miles reduction @ \$0.69/mile	Type II
Work Management & Field Enablement	M&C Productivity Improvements - Base	3.0% Improvement in Productivity; Base of 1,116,603 Straight Time Hours; 33,498 Hours Benefit (15 Minutes per Day) @ OT Rate of \$52.40/Hr. Note: benefits taken on OT.	Type I
Customer Interaction	Reduce Move Call Volume through Self-Service	15% reduction in move call volumes; Base of 748,125 yearly calls @ \$2.84/call	Type II
Customer Interaction	Reduce Non-Move Call Volume through Self-Service	10% reduction in non-move call volumes; Base of 494,197 field related calls of which 61% are addressable; 30,024 avoided calls @ an average of \$4.12/call	Type II
Regulatory/ Compliance	Reduced Compliance and Gas Safety Penalties	100% reduction in gas safety and compliance penalties; Base of \$545,068 average penalties over the past 3 years	Type II
Engineering, Design, Estimating & Mobility	Reduced in mapping cycle time via digital field data entry	30% reduction in FTEs associated with manual mapping; Base is 13 FTEs serving the gas business @ \$64,302/year.	Type II
Asset - Advanced Analytics	Reduction / Redirection in Opex via AIPM	0.8% redirection of annual addressable O&M spend to other spend (Opex or Capex); Base is FY2017 Controllable O&M budget of \$76.3M .	Type I
Engineering, Design, Estimating & Mobility	Reduction in Damages due to Data Quality Errors	44% reduction in mismark damages due to record errors; Average annual damage cost for mismarks due to record errors is \$ \$313,015. 20% reduction in mismark damages due to locator errors (internal); Average annual damage cost for mismarks due to locator errors is \$1,089	Type I
Data Management	Reduction in Data Cleansing / Scrubbing Effort - Analysts	7.5% Improvement in productivity; Base of 52 FTE @ rate of \$32.44/Hr	Type II
Work Management & Field Enablement	Reduction in Field Tech Communications	25% reduction in # of call aheads placed by technicians; 409,475 jobs x 1 min/call x 1 call/job; 102,369 minutes benefits @rate of \$34.93/Hr	Type II
Work Management & Field Enablement	Reduction in Meter Verification Jobs	37.5% reduction in number of meter verification jobs; Base of 3,032 jobs; 94,082 minutes of total time to complete meter verifications annually (including travel time); 35,281 minutes benefits @ rate of \$34.93/Hr	Type II
Customer Interaction	Reduction in Service Quality Penalties	17.5% reduction in service quality penalties; Base of \$233,450 average service quality penalties over the past 3 years	Type II

The Narragansett Electric Company d/b/a National Grid  
Gas Business Enablement (GBE)  
Total Colonial Gas Company Benefits Forecasted as a Result of GBE Implementation  
For Fiscal Years Ending March 31, 2019 through 2027

Initiative Description	Benefit Description	Benefit Calculation and Baseline	Benefit Type
Work Management & Field Enablement	Clerical / Back Office Productivity Improvement	25% Improvement in productivity; 17 clerks @ rate of \$25.09/Hr	Type I
Work Management & Field Enablement	CMS Collections Jobs - Reduction in Mileage	14% reduction in travel distance (assumed equal to travel time reduction); Base of 40,524 jobs/year x 2.30 miles per job = 93,361 ; 13,071 miles reduction @ \$0.69/miles	Type II
Work Management & Field Enablement	CMS Collections Jobs - Reduction in Travel Time	14% reduction in Travel Time (Analysis Conducted on CMS Data using OptimoRoute Software); Base of 40,524 jobs/year with an average travel time of 14 min; 567,334 minutes of total travel time; 79,427 minutes benefit @ rate of \$34.93/Hr	Type II
Work Management & Field Enablement	CMS Planned Jobs - Reduction in Available Time via Autodispatch	3.1% Improvement in productivity; Base of 14,950 work days (All Operating Companies - number of CMS Field Techs both Gas & Electric) with 43+ minutes available (i.e. the time required to complete another job on average) @ \$18.05/job. Using general allocator, 5.21% of this Enterprise wide benefit calculation applied to Colonial Gas	Type II
Work Management & Field Enablement	CMS Planned Jobs - Reduction in Mileage	2.5% reduction in travel distance; Base of 89,885 jobs/year x 4.17 miles per job = 321,889 miles; 8,047 miles reduction @ \$0.69/mile	Type II
Work Management & Field Enablement	CMS Planned Jobs - Reduction in Travel Time	2.5% reduction in travel time; Base of 89,885 jobs/year with an average travel time of 14 min; 20,973 hours of total travel time; 524hours benefit @ rate of \$34.93/Hr	Type II
Work Management & Field Enablement	CMS Planned Jobs - Reduction in UTCs	2.5% reduction in Unable To Complete (UTC) jobs; Base of 12,784 UTC jobs with an average job time of 10 min; 141,354 minutes of total travel time; 3,534 minutes benefit @ rate of \$34.93/Hr	Type II
Engineering, Design, Estimating & Mobility	Complex Jobs - Engineering Productivity Improvement	6.3% Improvement in productivity in NE ; Base of 40 FTE; 3763 hours saved per year @rate of \$52.53/Hr. 14% of this NE benefit calculation applied to Colonial Gas	Type II
Work Management & Field Enablement	Damage Prevention - Reduced Travel Mileage	2.5% reduction in travel distance; Base of 47,609 jobs x 4.17 miles per job = 198,763 miles; 4,969 miles reduction @ \$0.69/mile	Type I
Work Management & Field Enablement	Damage Prevention - Reduced Travel Time	2.5% reduction in travel time; Base of 47,609 jobs; 12 mins of travel time per job; 666,526 minutes of total travel time; 16,663 minutes benefit @ rate of \$34.93/Hr	Type II
Integrated Supply & Demand Planning	Improved Project Delivery - Construction	10% cost reduction of addressable supply chain costs in construction project delivery. Addressable costs: 2% in cost associated with construction work delayed by Supply Chain; Base is \$1.237B in project spend. Using general allocator, 5.21% of this Enterprise wide benefit calculation applied to Colonial Gas	Type II
Work Management & Field Enablement	Inspections - Reduced Travel Mileage	14% reduction in Travel Time (Analysis Conducted on CMS Data using OptimoRoute Software); Base of 2,074 jobs, 14 Minutes Travel Time per Job; 29,036 Minutes of Total Travel Time; 4,039 Minutes Benefit @ Rate of \$34.93/Hr	Type II
Work Management & Field Enablement	Inspections - Reduced Travel Time	14% reduction in travel distance (assumed equal to travel time reduction); Base of 2,074 jobs x 2.3 miles per job = 4,778 miles; 665 miles reduction @ \$0.69/mile	Type II
Work Management & Field Enablement	M&C Productivity Improvements - Base	3.0% Improvement in Productivity; Base of 177,186 Straight Time Hours; 5,316Hours Benefit (15 Minutes per Day) @ OT Rate of \$52.40/Hr. Note: benefits taken on OT.	Type I
Customer Interaction	Reduce Move Call Volume through Self-Service	15% reduction in move call volumes; Base of 135,159 yearly calls @ \$2.84/call	Type II
Customer Interaction	Reduce Non-Move Call Volume through Self-Service	10% reduction in non-move call volumes; Base of 108,482 field related calls of which 61% are addressable; 6,591 avoided calls @ an average of \$4.12/call	Type II
Regulatory/ Compliance	Reduced Compliance and Gas Safety Penalties	100% reduction in gas safety and compliance penalties; Base of \$121,932 average penalties over the past 3 years	Type II
Engineering, Design, Estimating & Mobility	Reduced in mapping cycle time via digital field data entry	30% reduction in FTEs associated with manual mapping; Base is 3 FTEs serving the gas business @ \$64,302/year.	Type II
Asset - Advanced Analytics	Reduction / Redirection in Opex via AIPM	0.8% redirection of annual addressable O&M spend to other spend (Opex or Capex); Base is FY2017 Controllable O&M budget of \$10.4M .	Type I
Engineering, Design, Estimating & Mobility	Reduction in Damages due to Data Quality Errors	44% reduction in mismark damages due to record errors; Average annual damage cost for mismarks due to record errors is \$ \$68,728. 20% reduction in mismark damages due to locator errors (internal); Average annual damage cost for mismarks due to locator errors is \$239	Type I
Data Management	Reduction in Data Cleansing / Scrubbing Effort - Analysts	7.5% Improvement in productivity; Base of 12 FTE @ rate of \$32.44/Hr	Type II
Work Management & Field Enablement	Reduction in Field Tech Communications	25% reduction in # of call aheads placed by technicians; 89,885 jobs x 1 min/call x 1 call/job; 22,471 minutes benefits @rate of \$34.93/Hr	Type II
Work Management & Field Enablement	Reduction in Meter Verification Jobs	37.5% reduction in number of meter verification jobs; Base of 666 jobs; 20,652 minutes of total time to complete meter verifications annually (including travel time); 7,744 minutes benefits @ rate of \$34.93/Hr	Type II
Customer Interaction	Reduction in Service Quality Penalties	17.5% reduction in service quality penalties; Base of \$40,800 average service quality penalties over the past 3 years	Type II

The Narragansett Electric Company d/b/a National Grid  
Gas Business Enablement (GBE)  
Total Niagara Mohawk Power Corporation Benefits Forecasted as a Result of GBE Implementation  
For Fiscal Years Ending March 31, 2019 through 2027

Initiative Description	Benefit Description	Benefit Calculation and Baseline	Benefit Type
Work Management & Field Enablement	Clerical / Back Office Productivity Improvement	25% Improvement in productivity; 26 clerks @ rate of \$25.09/Hr	Type I
Work Management & Field Enablement	CMS Collections Jobs - Reduction in Mileage	14% reduction in travel distance (assumed equal to travel time reduction); Base of 184,722 jobs/year x 2.30 miles per job = 425,574 miles; 59,580 miles reduction @ \$0.69/miles	Type II
Work Management & Field Enablement	CMS Collections Jobs - Reduction in Travel Time	14% reduction in Travel Time (Analysis Conducted on CMS Data using OptimoRoute Software); Base of 184,722 jobs/year with an average travel time of 14 min; 2,682,516 minutes of total travel time; 375,552 minutes benefit @ rate of \$34.93/Hr	Type II
Work Management & Field Enablement	CMS Planned Jobs - Reduction in Available Time via Autodispa	3.1% Improvement in productivity; Base of 14,950 work days (All Operating Companies - number of CMS Field Techs both Gas & Electric) with 43+ minutes available (i.e. the time required to complete another job on average) @ \$18.05/job. Using general allocator, 12.44% of this Enterprise wide benefit calculation applied to NMPC	Type II
Work Management & Field Enablement	CMS Planned Jobs - Reduction in Mileage	2.5% reduction in travel distance; Base of 445,013 jobs/year x 4.17 miles per job = 1,583,376 miles; 39,584 miles reduction @ \$0.69/mile	Type II
Work Management & Field Enablement	CMS Planned Jobs - Reduction in Travel Time	2.5% reduction in travel time; Base of 445,013 jobs/year with an average travel time of 14 min; 105,566 hours of total travel time; 2,639 hours benefit @ rate of \$34.93/Hr	Type II
Work Management & Field Enablement	CMS Planned Jobs - Reduction in UTCs	2.5% reduction in Unable To Complete (UTC) jobs; Base of 65,751 UTC jobs with an average job time of 8 min; 526,009 minutes of total travel time; 13,150 minutes benefit @ rate of \$34.93/Hr	Type II
Engineering, Design, Estimating & Mobility	Complex Jobs - Engineering Productivity Improvement	3.3% Improvement in productivity in NY ; Base of 60 FTE; 2935 hours saved per year @rate of \$52.53/Hr. 19% of this NY benefit calculation applied to NMPC	Type II
Engineering, Design, Estimating & Mobility	Complex Jobs - Estimating Accuracy Fine Avoidance	Increase estimating accuracy from <60% to 60% - 70% which will reduce penalties in NiagaraMohawk Gas from \$1.1M to \$500k.	Type II
Work Management & Field Enablement	Damage Prevention - Reduced Travel Mileage	2.5% reduction in travel distance; Base of 105,761 jobs x 4.17 miles per job = 441,541 miles; 11,039 miles reduction @ \$0.69/mile	Type I
Work Management & Field Enablement	Damage Prevention - Reduced Travel Time	2.5% reduction in travel time; Base of 105,761 jobs; 13 mins of travel time per job; 1,374,893 minutes of total travel time; 34,372 minutes benefit @ rate of \$34.93/Hr	Type II
Integrated Supply & Demand Planning	Improved Project Delivery - Construction	10% cost reduction of addressable supply chain costs in construction project delivery. Addressable costs: 2% in cost associated with construction work delayed by Supply Chain; Base is \$1.237B in project spend. Using general allocator, 12.44% of this Enterprise wide benefit calculation applied to NMPC	Type II
Work Management & Field Enablement	M&C Productivity Improvements - Base	3.0% Improvement in Productivity; Base of 1,035,840 Straight Time Hours; 31,075 Hours Benefit (15 Minutes per Day) @ OT Rate of \$52.40/Hr. Note: benefits taken on OT.	Type I
Customer Interaction	Reduce Move Call Volume through Self-Service	15% reduction in move call volumes; Base of 669,012 yearly calls @ \$3.80/call	Type II
Customer Interaction	Reduce Non-Move Call Volume through Self-Service	10% reduction in non-move call volumes; Base of 479,869 field related calls of which 61% are addressable; 29,154 avoided calls @ an average of \$4.26/call	Type II
Regulatory/ Compliance	Reduced Compliance and Gas Safety Penalties	100% reduction in gas safety and compliance penalties; Base of \$7,900,000 average penalties over the past 3 years	Type II
Engineering, Design, Estimating & Mobility	Reduced in mapping cycle time via digital field data entry	30% reduction in FTEs associated with manual mapping; Base is 3 FTEs serving the gas business @ \$64,302/year.	Type II
Asset - Advanced Analytics	Reduction / Redirection in Opex via AIPM	0.8% redirection of annual addressable O&M spend to other spend (Opex or Capex); Base is FY2017 Controllable O&M budget of \$39.9M .	Type I
Engineering, Design, Estimating & Mobility	Reduction in Damages due to Data Quality Errors	44% reduction in mismark damages due to record errors; Average annual damage cost for mismarks due to record errors is \$115,317. 20% reduction in mismark damages due to locator errors (internal); Average annual damage cost for mismarks due to locator errors is \$0	Type I
Data Management	Reduction in Data Cleansing / Scrubbing Effort - Analysts	7.5% Improvement in productivity; Base of 24 FTE @ rate of \$32.44/Hr	Type II
Work Management & Field Enablement	Reduction in Field Tech Communications	25% reduction in # of call aheads placed by technicians; 445,013 jobs x 1 min/call x 1 call/job; 111,253 minutes benefits @rate of \$34.93/Hr	Type II
Work Management & Field Enablement	Reduction in Meter Verification Jobs	37.5% reduction in number of meter verification jobs; Base of 6,280 jobs; 179,746 minutes of total time to complete meter verifications annually (including travel time); 67,405 minutes benefits @ rate of \$34.93/Hr	Type II
Customer Interaction	Reduction in Service Quality Penalties	17.5% reduction in service quality penalties; Base of \$846,563 average service quality penalties over the past 3 years	Type II

The Narragansett Electric Company d/b/a National Grid  
Gas Business Enablement (GBE)  
Total Brooklyn Union Gas Company (KedNY) Company Benefits Forecasted as a Result of GBE Implementation  
For Fiscal Years Ending March 31, 2019 through 2027

Initiative Description	Benefit Description	Benefit Calculation and Baseline	Benefit Type
Work Management & Field Enablement	Clerical / Back Office Productivity Improvement	25% Improvement in productivity; 28 clerks @ rate of \$25.09/Hr	Type I
Work Management & Field Enablement	CMS Collections Jobs - Reduction in Mileage	14% reduction in travel distance (assumed equal to travel time reduction); Base of 197,307 jobs/year x 2.30 miles per job = 454,567 miles; 63,639 miles reduction @ \$0.69/miles	Type II
Work Management & Field Enablement	CMS Collections Jobs - Reduction in Travel Time	14% reduction in Travel Time (Analysis Conducted on CMS Data using OptimoRoute Software); Base of 197,307 jobs/year with an average travel time of 11 min; 2,170,373 minutes of total travel time; 303,852 minutes benefit @ rate of \$34.93/Hr	Type II
Work Management & Field Enablement	CMS Planned Jobs - Reduction in Available Time via Autodispatch	3.1% Improvement in productivity; Base of 14,950 work days (All Operating Companies - number of CMS Field Techs both Gas & Electric) with 43+ minutes available (i.e. the time required to complete another job on average) @ \$18.05/job. Using general allocator, 30.10% of this Enterprise wide benefit calculation applied to KedNY	Type II
Work Management & Field Enablement	CMS Planned Jobs - Reduction in Mileage	2.5% reduction in travel distance; Base of 540,151 jobs/year x 4.17 miles per job = 1,842,879 miles; 46,072miles reduction @ \$0.69/mile	Type II
Work Management & Field Enablement	CMS Planned Jobs - Reduction in Travel Time	2.5% reduction in travel time; Base of 540,151 jobs/year with an average travel time of 11 min; 99,028 hours of total travel time; 2,476 hours benefit @ rate of \$34.93/Hr	Type II
Work Management & Field Enablement	CMS Planned Jobs - Reduction in UTCs	2.5% reduction in Unable To Complete (UTC) jobs; Base of 98,732 UTC jobs with an average job time of 17 min; 1,678,440 minutes of total travel time; 41,961 minutes benefit @ rate of \$34.93/Hr	Type II
Engineering, Design, Estimating & Mobility	Complex Jobs - Engineering Productivity Improvement	3.3% Improvement in productivity in NY ; Base of 60 FTE; 2935 hours saved per year @rate of \$52.53/Hr. 47% of this NY benefit calculation applied to KedNY	Type II
Work Management & Field Enablement	Damage Prevention - Reduced Travel Mileage	2.5% reduction in travel distance; Base of 190,066 jobs x 4.17 miles per job = 793,505 miles; 19,838 miles reduction @ \$0.69/mile	Type I
Work Management & Field Enablement	Damage Prevention - Reduced Travel Time	2.5% reduction in travel time; Base of 190,066 jobs; 11 mins of travel time per job; 2,090,726 minutes of total travel time; 52,269 minutes benefit @ rate of \$34.93/Hr	Type II
Integrated Supply & Demand Planning	Improved Project Delivery - Construction	10% cost reduction of addressable supply chain costs in construction project delivery. Addressable costs: 2% in cost associated with construction work delayed by Supply Chain; Base is \$1.237B in project spend. Using general allocator, 30.10% of this Enterprise wide benefit calculation applied to KedNY	Type II
Work Management & Field Enablement	M&C and CMS Jobs - Reduced Summonses	40% reduction in the # of summonses; Base of \$11,134,103 for all type of code violations.	Type I
Work Management & Field Enablement	M&C Productivity Improvements - Base	3.0% Improvement in Productivity; Base of 1,231,359 Straight Time Hours; 36,941 Hours Benefit (15 Minutes per Day) @ OT Rate of \$52.40/Hr. Note: benefits taken on OT.	Type I
Customer Interaction	Reduce Non-Move Call Volume through Self-Service	10% reduction in non-move call volumes; Base of 611,135 field related calls of which 61% are addressable; 37,128 avoided calls @ an average of \$5.08/call	Type II
Regulatory/ Compliance	Reduced Compliance and Gas Safety Penalties	100% reduction in gas safety and compliance penalties; Base of \$4,766,667average penalties over the past 3 years	Type II
Engineering, Design, Estimating & Mobility	Reduced in mapping cycle time via digital field data entry	30% reduction in FTEs associated with manual mapping; Base is 9 FTEs serving the gas business @ \$64,302/year.	Type II
Asset - Advanced Analytics	Reduction / Redirection in Opex via AIPM	0.8% redirection of annual addressable O&M spend to other spend (Opex or Capex); Base is FY2017 Controllable O&M budget of \$74.7M .	Type I
Engineering, Design, Estimating & Mobility	Reduction in Damages due to Data Quality Errors	44% reduction in mismatch damages due to record errors; Average annual damage cost for mismarks due to record errors is \$22,124. 20% reduction in mismatch damages due to locator errors (internal); Average annual damage cost for mismarks due to locator errors is \$233	Type I
Data Management	Reduction in Data Cleansing / Scrubbing Effort - Analysts	7.5% Improvement in productivity; Base of 39 FTE @ rate of \$32.44/Hr	Type II
Work Management & Field Enablement	Reduction in Field Tech Communications	25% reduction in # of call aheads placed by technicians; 540 151 jobs x 1 min/call x 1 call/job; 135,038 minutes benefits @rate of \$34.93/Hr	Type II
Work Management & Field Enablement	Reduction in Meter Verification Jobs	37.5% reduction in number of meter verification jobs; Base of 9,255 jobs; 268,385 minutes of total time to complete meter verifications annually (including travel time); 100,644 minutes benefits @ rate of \$34.93/Hr	Type II

The Narragansett Electric Company d/b/a National Grid  
Gas Business Enablement (GBE)  
Total KeySpan Gas East Corporation (KedLI) Company Benefits Forecasted as a Result of GBE Implementation  
For Fiscal Years Ending March 31, 2019 through 2027

Initiative Description	Benefit Description	Benefit Calculation and Baseline	Benefit Type
Work Management & Field Enablement	Clerical / Back Office Productivity Improvement	25% Improvement in productivity; 22 clerks @ rate of \$25.09/Hr	Type I
Work Management & Field Enablement	CMS Collections Jobs - Reduction in Mileage	14% reduction in travel distance (assumed equal to travel time reduction); Base of 49,625 jobs/year x 2.30 miles per job = 114,328 miles; 16,006 miles reduction @ \$0.69/miles	Type II
Work Management & Field Enablement	CMS Collections Jobs - Reduction in Travel Time	14% reduction in Travel Time (Analysis Conducted on CMS Data using OptimoRoute Software); Base of 49,625 jobs/year with an average travel time of 13 min; 645,121 minutes of total travel time; 90,317 minutes benefit @ rate of \$34.93/Hr	Type II
Work Management & Field Enablement	CMS Planned Jobs - Reduction in Available Time via Autodispatch	3.1% Improvement in productivity; Base of 14,950 work days (All Operating Companies - number of CMS Field Techs both Gas & Electric) with 43+ minutes available (i.e. the time required to complete another job on average) @ \$18.05/job. Using general allocator, 21.55% of this Enterprise wide benefit calculation applied to KedLI	Type II
Work Management & Field Enablement	CMS Planned Jobs - Reduction in Mileage	2.5% reduction in travel distance; Base of 186,037 jobs/year x 4.17 miles per job = 663,393 miles; 16,585miles reduction @ \$0.69/mile	Type II
Work Management & Field Enablement	CMS Planned Jobs - Reduction in Travel Time	2.5% reduction in travel time; Base of 186,037 jobs/year with an average travel time of 10 min; 31,006 hours of total travel time; 775 hours benefit @ rate of \$34.93/Hr	Type II
Work Management & Field Enablement	CMS Planned Jobs - Reduction in UTCs	2.5% reduction in Unable To Complete (UTC) jobs; Base of 27,089 UTC jobs with an average job time of 16 min; 433,425 minutes of total travel time; 10,836 minutes benefit @ rate of \$34.93/Hr	Type II
Engineering, Design, Estimating & Mobility	Complex Jobs - Engineering Productivity Improvement	3.3% Improvement in productivity in NY ; Base of 60 FTE; 2935 hours saved per year @rate of \$52.53/Hr. 34% of this NY benefit calculation applied to KedLI	Type II
Work Management & Field Enablement	Damage Prevention - Reduced Travel Mileage	2.5% reduction in travel distance; Base of 154,225 jobs x 4.17 miles per job = 643,873 miles; 16,097 miles reduction @ \$0.69/mile	Type I
Work Management & Field Enablement	Damage Prevention - Reduced Travel Time	2.5% reduction in travel time; Base of 154,225 jobs; 10 mins of travel time per job; 1,542,250 minutes of total travel time; 38,556 minutes benefit @ rate of \$34.93/Hr	Type II
Integrated Supply & Demand Planning	Improved Project Delivery - Construction	10% cost reduction of addressable supply chain costs in construction project delivery. Addressable costs: 2% in cost associated with construction work delayed by Supply Chain; Base is \$1.237B in project spend. Using general allocator, 21.55% of this Enterprise wide benefit calculation applied to KedLI	Type II
Work Management & Field Enablement	M&C Productivity Improvements - Base	3.0% Improvement in Productivity; Base of 765,440 Straight Time Hours; 22,963 Hours Benefit (15 Minutes per Day) @ OT Rate of \$52.40/Hr. Note: benefits taken on OT.	Type I
Customer Interaction	Reduce Move Call Volume through Self-Service	15% reduction in move call volumes; Base of 167,244 yearly calls @ \$3.80/call	Type II
Customer Interaction	Reduce Non-Move Call Volume through Self-Service	10% reduction in non-move call volumes; Base of 223,410 field related calls of which 61% are addressable; 13,573 avoided calls @ an average of \$6.30/call	Type II
Engineering, Design, Estimating & Mobility	Reduced in mapping cycle time via digital field data entry	30% reduction in FTEs associated with manual mapping; Base is 3 FTEs serving the gas business @ \$64,302/year.	Type II
Asset - Advanced Analytics	Reduction / Redirection in Opex via AIPM	0.8% redirection of annual addressable O&M spend to other spend (Opex or Capex); Base is FY2017 Controllable O&M budget of \$25.6M .	Type I
Engineering, Design, Estimating & Mobility	Reduction in Damages due to Data Quality Errors	44% reduction in mismatch damages due to record errors; Average annual damage cost for mismarks due to record errors is \$256,318. 20% reduction in mismatch damages due to locator errors (internal); Average annual damage cost for mismarks due to locator errors is \$7,069	Type I
Data Management	Reduction in Data Cleansing / Scrubbing Effort - Analysts	7.5% Improvement in productivity; Base of 29 FTE @ rate of \$32.44/Hr	Type II
Work Management & Field Enablement	Reduction in Field Tech Communications	25% reduction in # of call aheads placed by technicians; 186,037 jobs x 1 min/call x 1 call/job; 46,509 minutes benefits @rate of \$34.93/Hr	Type II
Work Management & Field Enablement	Reduction in Meter Verification Jobs	37.5% reduction in number of meter verification jobs; Base of 5,569 jobs; 139,242 minutes of total time to complete meter verifications annually (including travel time); 52,216 minutes benefits @ rate of \$34.93/Hr	Type II
Customer Interaction	Reduction in Service Quality Penalties	17.5% reduction in service quality penalties; Base of \$3,960,000 average service quality penalties over the past 3 years	Type II

Division 26-5

Request:

Refer to Massachusetts D.P.U. 17-170, Attachment DPU-NG 1-10-1, page 5 of 6, which presents a table entitled "Key Project Implementation Dates", and answer the following:

- a. Have any of these Key Project Implementation Dates changed? If so, please explain the reasons for the changes.
- b. Please provide an amended version of this table that retains the separate columns for each state jurisdiction and operating affiliate but also shows these dates grouped by 12-month ending period as shown in RI PUC Docket No. 4770, Attachment PUC 9-18-1.

Response:

- a. The date for the first implementation in Rhode Island has been updated to April 2018, this was moved to avoid an overlap between implementation and year end close activities. Additionally, upon reviewing the materials filed in Massachusetts, National Grid has identified an error in the data that was communicated with the Massachusetts Department of Public Utilities. Referring to Line 15: PA1-3 WM-SDM, the implementation date should be Apr-18 not Oct-18 for The Narragansett Electric Company (Electric) and The Narragansett Electric Company (Gas). All other dates are unchanged.

The Narragansett Electric Company  
d/b/a National Grid  
RIPUC Docket No. 4770  
Responses to Division's Twenty-Sixth Set of Data Requests  
Issued February 21, 2018

Gas Business Enablement								
Key Project Implementation Dates								
Line	Portfolio Anchor	Workstream	The Narragansett Electric Company (Electric)	The Narragansett Electric Company (Gas)	Boston Gas Company / Colonial Gas Company	Niagara Mohawk Power Corporation	The Brooklyn Union Gas Company	KeySpan Energy East Corporation
<b>Cap Ex Investment</b>								
1	PA1-3	Asset Management	Oct-18	Oct-18	Jan-19	Apr-19	Jul-19	Oct-19
2	PA1-3	Asset Management / GIS	Oct-18	Oct-18	Jan-19	Apr-19	Jul-19	Oct-19
3	PA1-3	Work Management (Maximo)	Apr-18	Apr-18	Jan-19	Apr-19	Jul-19	Oct-19
4	PA4	Asset Management	Apr-20	Apr-20	Jun-20	Apr-19	Jul-19	Oct-19
5	PA4	Asset Management / GIS	Apr-20	Apr-20	Jun-20	Jul-20	Aug-20	Sep-20
6	PA4	Work Management (Maximo)	Apr-20	Apr-20	Jun-20	Jul-20	Aug-20	Sep-20
7	PA5	Asset Management	Apr-21	Apr-21	Apr-21	Apr-21	Apr-21	Apr-21
8	PA5	Asset Management / GIS	Apr-21	Apr-21	Apr-21	Apr-21	Apr-21	Apr-21
9	PA5	Work Management (Maximo)	Apr-21	Apr-21	Apr-21	Apr-21	Apr-21	Apr-21
10	PA6	Asset Management	Jul-21	Jul-21	Jul-21	Jul-21	Jul-21	Jul-21
11	PA6	Asset Management / GIS	Jul-21	Jul-21	Jul-21	Jul-21	Jul-21	Jul-21
12	PA6	Work Management (Maximo)	Jul-21	Jul-21	Jul-21	Jul-21	Jul-21	Jul-21
13	PA1-3	Customer Engagement	Oct-18	Oct-18	Jan-19	Apr-19	Jul-19	Oct-19
14	PA4	Customer Engagement	Apr-20	Apr-20	Jun-20	Jul-20	Aug-20	Sep-20
15	PA1-3	WM-SDM	Apr-18	Apr-18	Jan-19	Apr-19	Jul-19	Oct-19
16	PA4	WM-SDM	Apr-20	Apr-20	Jun-20	Jul-20	Aug-20	Sep-20
17	PA5	WM-SDM	Apr-21	Apr-21	Apr-21	Apr-21	Apr-21	Apr-21
18	PA6	WM-SDM	Jul-21	Jul-21	Jul-21	Jul-21	Jul-21	Jul-21
19	PA1-3	Supply Chain	Oct-18	Oct-18	Jan-19	Apr-19	Jul-19	Oct-19
20	PA4	Supply Chain	Apr-20	Apr-20	Jun-20	Jul-20	Aug-20	Sep-20
21	PA1-3	Hardware (CapEx)	Oct-18	Oct-18	Jan-19	Apr-19	Jul-19	Oct-19
22	PA4	Hardware (CapEx)	Apr-20	Apr-20	Jun-20	Jul-20	Aug-20	Sep-20
23	PA5	Hardware (CapEx)	Apr-21	Apr-21	Apr-21	Apr-21	Apr-21	Apr-21
24	PA6	Hardware (CapEx)	Jul-21	Jul-21	Jul-21	Jul-21	Jul-21	Jul-21
25	PA1-3	PP Enhancements (CapEx)	Aug-17	Aug-17	Aug-17	Aug-17	Aug-17	Aug-17

b. Please see Attachment DIV 26-5 for the requested information.

Gas Business Enablement  
Key Project Implementation Dates

Line	Portfolio Anchor	Workstream	The Narragansett Electric Company (Electric)	The Narragansett Electric Company (Gas)	Boston Gas Company / Colonial Gas Company	Niagara Mohawk Power Corporation	The Brooklyn Union Gas Company	KeySpan Energy East Corporation
<b>Cap Ex Investment</b>								
1	PA1-3	Asset Management	Oct-18	Oct-18	Jan-19	Apr-19	Jul-19	Oct-19
2	PA1-3	Asset Management / GIS	Oct-18	Oct-18	Jan-19	Apr-19	Jul-19	Oct-19
3	PA1-3	Work Management (Maximo)	Apr-18	Apr-18	Jan-19	Apr-19	Jul-19	Oct-19
4	PA4	Asset Management	Apr-20	Apr-20	Jun-20	Apr-19	Jul-19	Oct-19
5	PA4	Asset Management / GIS	Apr-20	Apr-20	Jun-20	Jul-20	Aug-20	Sep-20
6	PA4	Work Management (Maximo)	Apr-20	Apr-20	Jun-20	Jul-20	Aug-20	Sep-20
7	PA5	Asset Management	Apr-21	Apr-21	Apr-21	Apr-21	Apr-21	Apr-21
8	PA5	Asset Management / GIS	Apr-21	Apr-21	Apr-21	Apr-21	Apr-21	Apr-21
9	PA5	Work Management (Maximo)	Apr-21	Apr-21	Apr-21	Apr-21	Apr-21	Apr-21
10	PA6	Asset Management	Jul-21	Jul-21	Jul-21	Jul-21	Jul-21	Jul-21
11	PA6	Asset Management / GIS	Jul-21	Jul-21	Jul-21	Jul-21	Jul-21	Jul-21
12	PA6	Work Management (Maximo)	Jul-21	Jul-21	Jul-21	Jul-21	Jul-21	Jul-21
13	PA1-3	Customer Engagement	Oct-18	Oct-18	Jan-19	Apr-19	Jul-19	Oct-19
14	PA4	Customer Engagement	Apr-20	Apr-20	Jun-20	Jul-20	Aug-20	Sep-20
15	PA1-3	WM-SDM	Apr-18	Apr-18	Jan-19	Apr-19	Jul-19	Oct-19
16	PA4	WM-SDM	Apr-20	Apr-20	Jun-20	Jul-20	Aug-20	Sep-20
17	PA5	WM-SDM	Apr-21	Apr-21	Apr-21	Apr-21	Apr-21	Apr-21
18	PA6	WM-SDM	Jul-21	Jul-21	Jul-21	Jul-21	Jul-21	Jul-21
19	PA1-3	Supply Chain	Oct-18	Oct-18	Jan-19	Apr-19	Jul-19	Oct-19
20	PA4	Supply Chain	Apr-20	Apr-20	Jun-20	Jul-20	Aug-20	Sep-20
21	PA1-3	Hardware (CapEx)	Oct-18	Oct-18	Jan-19	Apr-19	Jul-19	Oct-19
22	PA4	Hardware (CapEx)	Apr-20	Apr-20	Jun-20	Jul-20	Aug-20	Sep-20
23	PA5	Hardware (CapEx)	Apr-21	Apr-21	Apr-21	Apr-21	Apr-21	Apr-21
24	PA6	Hardware (CapEx)	Jul-21	Jul-21	Jul-21	Jul-21	Jul-21	Jul-21
25	PA1-3	PP Enhancements (CapEx)	Aug-17	Aug-17	Aug-17	Aug-17	Aug-17	Aug-17

Gas Business Enablement  
Key Project Implementation Dates

Line	Portfolio Anchor	Workstream	The Narragansett Electric Company (Electric) (2)								
			12-Month Ending March 31, 2019	12-Month Ending March 31, 2020	12-Month Ending March 31, 2021	12-Month Ending March 31, 2022	12-Month Ending March 31, 2023	12-Month Ending March 31, 2024	12-Month Ending March 31, 2025	12-Month Ending March 31, 2026	12-Month Ending March 31, 2027
	<b>Cap Ex Investment</b>										
1	PA1-3	Asset Management	Oct-18								
2	PA1-3	Asset Management / GIS	Oct-18								
3	PA1-3	Work Management (Maximo)	Apr-18								
4	PA4	Asset Management									
5	PA4	Asset Management / GIS									
6	PA4	Work Management (Maximo)									
7	PA5	Asset Management									
8	PA5	Asset Management / GIS									
9	PA5	Work Management (Maximo)									
10	PA6	Asset Management									
11	PA6	Asset Management / GIS									
12	PA6	Work Management (Maximo)									
13	PA1-3	Customer Engagement	Oct-18								
14	PA4	Customer Engagement			Apr-20						
15	PA1-3	WM-SDM	Apr-18								
16	PA4	WM-SDM									
17	PA5	WM-SDM									
18	PA6	WM-SDM									
19	PA1-3	Supply Chain	Oct-18								
20	PA4	Supply Chain									
21	PA1-3	Hardware (CapEx)	Oct-18								
22	PA4	Hardware (CapEx)									
23	PA5	Hardware (CapEx)									
24	PA6	Hardware (CapEx)									
25	PA1-3	PP Enhancements (CapEx)	8/1/2017 (1)								

Notes:

- (1) - PP Enhancements completed August, 2017
- (2) - Dates shown for RI-Electric capability delivery only

Gas Business Enablement  
Key Project Implementation Dates

Line	Portfolio Anchor	Workstream	The Narragansett Electric Company (Gas)								
			12-Month Ending March 31, 2019	12-Month Ending March 31, 2020	12-Month Ending March 31, 2021	12-Month Ending March 31, 2022	12-Month Ending March 31, 2023	12-Month Ending March 31, 2024	12-Month Ending March 31, 2025	12-Month Ending March 31, 2026	12-Month Ending March 31, 2027
		<b>Cap Ex Investment</b>									
1	PA1-3	Asset Management	Oct-18								
2	PA1-3	Asset Management / GIS	Oct-18								
3	PA1-3	Work Management (Maximo)	Apr-18								
4	PA4	Asset Management			Apr-20						
5	PA4	Asset Management / GIS			Apr-20						
6	PA4	Work Management (Maximo)			Apr-20						
7	PA5	Asset Management				Apr-21					
8	PA5	Asset Management / GIS				Apr-21					
9	PA5	Work Management (Maximo)				Apr-21					
10	PA6	Asset Management				Jul-21					
11	PA6	Asset Management / GIS				Jul-21					
12	PA6	Work Management (Maximo)				Jul-21					
13	PA1-3	Customer Engagement	Oct-18								
14	PA4	Customer Engagement			Apr-20						
15	PA1-3	WM-SDM	Apr-18								
16	PA4	WM-SDM			Apr-20						
17	PA5	WM-SDM				Apr-21					
18	PA6	WM-SDM				Jul-21					
19	PA1-3	Supply Chain	Oct-18								
20	PA4	Supply Chain			Apr-20						
21	PA1-3	Hardware (CapEx)	Oct-18								
22	PA4	Hardware (CapEx)			Apr-20						
23	PA5	Hardware (CapEx)				Apr-21					
24	PA6	Hardware (CapEx)				Jul-21					
25	PA1-3	PP Enhancements (CapEx)	8/1/2017 (1)								

Notes:

- (1) - PP Enhancements completed August, 2017
- (2) - Dates shown for RI-Electric capability delivery onl

Gas Business Enablement  
Key Project Implementation Dates

Line	Portfolio Anchor	Workstream	Boston Gas Company / Colonial Gas Company								
			12-Month Ending March 31, 2019	12-Month Ending March 31, 2020	12-Month Ending March 31, 2021	12-Month Ending March 31, 2022	12-Month Ending March 31, 2023	12-Month Ending March 31, 2024	12-Month Ending March 31, 2025	12-Month Ending March 31, 2026	12-Month Ending March 31, 2027
		<b>Cap Ex Investment</b>									
1	PA1-3	Asset Management	Jan-19								
2	PA1-3	Asset Management / GIS	Jan-19								
3	PA1-3	Work Management (Maximo)	Jan-19								
4	PA4	Asset Management			Jun-20						
5	PA4	Asset Management / GIS			Jun-20						
6	PA4	Work Management (Maximo)			Jun-20						
7	PA5	Asset Management				Apr-21					
8	PA5	Asset Management / GIS				Apr-21					
9	PA5	Work Management (Maximo)				Apr-21					
10	PA6	Asset Management				Jul-21					
11	PA6	Asset Management / GIS				Jul-21					
12	PA6	Work Management (Maximo)				Jul-21					
13	PA1-3	Customer Engagement		Jan-19							
14	PA4	Customer Engagement			Jun-20						
15	PA1-3	WM-SDM		Jan-19							
16	PA4	WM-SDM			Jun-20						
17	PA5	WM-SDM				Apr-21					
18	PA6	WM-SDM				Jul-21					
19	PA1-3	Supply Chain		Jan-19							
20	PA4	Supply Chain			Jun-20						
21	PA1-3	Hardware (CapEx)		Jan-19							
22	PA4	Hardware (CapEx)			Jun-20						
23	PA5	Hardware (CapEx)				Apr-21					
24	PA6	Hardware (CapEx)				Jul-21					
25	PA1-3	PP Enhancements (CapEx)	8/1/2017 (1)								

Notes:

- (1) - PP Enhancements completed August, 2017
- (2) - Dates shown for RI-Electric capability delivery onl

Gas Business Enablement  
Key Project Implementation Dates

Line	Portfolio Anchor	Workstream	Niagara Mohawk Power Corporation								
			12-Month Ending March 31, 2019	12-Month Ending March 31, 2020	12-Month Ending March 31, 2021	12-Month Ending March 31, 2022	12-Month Ending March 31, 2023	12-Month Ending March 31, 2024	12-Month Ending March 31, 2025	12-Month Ending March 31, 2026	12-Month Ending March 31, 2027
	<b>Cap Ex Investment</b>										
1	PA1-3	Asset Management		Apr-19							
2	PA1-3	Asset Management / GIS		Apr-19							
3	PA1-3	Work Management (Maximo)		Apr-19							
4	PA4	Asset Management		Apr-19							
5	PA4	Asset Management / GIS			Jul-20						
6	PA4	Work Management (Maximo)			Jul-20						
7	PA5	Asset Management				Apr-21					
8	PA5	Asset Management / GIS				Apr-21					
9	PA5	Work Management (Maximo)				Apr-21					
10	PA6	Asset Management				Jul-21					
11	PA6	Asset Management / GIS				Jul-21					
12	PA6	Work Management (Maximo)				Jul-21					
13	PA1-3	Customer Engagement		Apr-19							
14	PA4	Customer Engagement			Jul-20						
15	PA1-3	WM-SDM		Apr-19							
16	PA4	WM-SDM			Jul-20						
17	PA5	WM-SDM				Apr-21					
18	PA6	WM-SDM				Jul-21					
19	PA1-3	Supply Chain		Apr-19							
20	PA4	Supply Chain			Jul-20						
21	PA1-3	Hardware (CapEx)		Apr-19							
22	PA4	Hardware (CapEx)			Jul-20						
23	PA5	Hardware (CapEx)				Apr-21					
24	PA6	Hardware (CapEx)				Jul-21					
25	PA1-3	PP Enhancements (CapEx)	8/1/2017 (1)								

Notes:

- (1) - PP Enhancements completed August, 2017
- (2) - Dates shown for RI-Electric capability delivery onl

Gas Business Enablement  
Key Project Implementation Dates

Line	Portfolio Anchor	Workstream	The Brooklyn Union Gas Company								
			12-Month Ending March 31, 2019	12-Month Ending March 31, 2020	12-Month Ending March 31, 2021	12-Month Ending March 31, 2022	12-Month Ending March 31, 2023	12-Month Ending March 31, 2024	12-Month Ending March 31, 2025	12-Month Ending March 31, 2026	12-Month Ending March 31, 2027
		<b>Cap Ex Investment</b>									
1	PA1-3	Asset Management		Jul-19							
2	PA1-3	Asset Management / GIS		Jul-19							
3	PA1-3	Work Management (Maximo)		Jul-19							
4	PA4	Asset Management		Jul-19							
5	PA4	Asset Management / GIS			Aug-20						
6	PA4	Work Management (Maximo)			Aug-20						
7	PA5	Asset Management				Apr-21					
8	PA5	Asset Management / GIS				Apr-21					
9	PA5	Work Management (Maximo)				Apr-21					
10	PA6	Asset Management				Jul-21					
11	PA6	Asset Management / GIS				Jul-21					
12	PA6	Work Management (Maximo)				Jul-21					
13	PA1-3	Customer Engagement		Jul-19							
14	PA4	Customer Engagement			Aug-20						
15	PA1-3	WM-SDM		Jul-19							
16	PA4	WM-SDM			Aug-20						
17	PA5	WM-SDM				Apr-21					
18	PA6	WM-SDM				Jul-21					
19	PA1-3	Supply Chain		Jul-19							
20	PA4	Supply Chain			Aug-20						
21	PA1-3	Hardware (CapEx)		Jul-19							
22	PA4	Hardware (CapEx)			Aug-20						
23	PA5	Hardware (CapEx)				Apr-21					
24	PA6	Hardware (CapEx)				Jul-21					
25	PA1-3	PP Enhancements (CapEx)	8/1/2017 (1)								

Notes:

- (1) - PP Enhancements completed August, 2017
- (2) - Dates shown for RI-Electric capability delivery onl

Gas Business Enablement  
Key Project Implementation Dates

Line	Portfolio Anchor	Workstream	KeySpan Energy East Corporation								
			12-Month Ending March 31, 2019	12-Month Ending March 31, 2020	12-Month Ending March 31, 2021	12-Month Ending March 31, 2022	12-Month Ending March 31, 2023	12-Month Ending March 31, 2024	12-Month Ending March 31, 2025	12-Month Ending March 31, 2026	12-Month Ending March 31, 2027
	<b>Cap Ex Investment</b>										
1	PA1-3	Asset Management		Oct-19							
2	PA1-3	Asset Management / GIS		Oct-19							
3	PA1-3	Work Management (Maximo)		Oct-19							
4	PA4	Asset Management		Oct-19							
5	PA4	Asset Management / GIS			Sep-20						
6	PA4	Work Management (Maximo)			Sep-20						
7	PA5	Asset Management				Apr-21					
8	PA5	Asset Management / GIS				Apr-21					
9	PA5	Work Management (Maximo)				Apr-21					
10	PA6	Asset Management				Jul-21					
11	PA6	Asset Management / GIS				Jul-21					
12	PA6	Work Management (Maximo)				Jul-21					
13	PA1-3	Customer Engagement		Oct-19							
14	PA4	Customer Engagement			Sep-20						
15	PA1-3	WM-SDM		Oct-19							
16	PA4	WM-SDM			Sep-20						
17	PA5	WM-SDM				Apr-21					
18	PA6	WM-SDM				Jul-21					
19	PA1-3	Supply Chain		Oct-19							
20	PA4	Supply Chain			Sep-20						
21	PA1-3	Hardware (CapEx)		Oct-19							
22	PA4	Hardware (CapEx)			Sep-20						
23	PA5	Hardware (CapEx)				Apr-21					
24	PA6	Hardware (CapEx)				Jul-21					
25	PA1-3	PP Enhancements (CapEx)	8/1/2017 (1)								

Notes:

- (1) - PP Enhancements completed August, 2017
- (2) - Dates shown for RI-Electric capability delivery onl

Division 26-6

Request:

Based on the proposed implementation of GBE, please provide for the Company's average Rhode Island residential electric and gas customers:

- a. The first-year bill impact due exclusively to the implementation of GBE as proposed.
- b. The bill impact for the remaining unrecovered cost amortization.
- c. The first-year bill impact if the Company's proposed cost recovery for GBE is denied.

Response:

Please see Attachment DIV 26-6-1 for the bill impact analysis for gas customers and Attachment DIV 26-6-2 for the bill impact analysis for electric customers. Also please see Attachment DIV 26-6-3 for the calculation of the revenue requirement associated with implementation of Gas Business Enablement. In this attachment, the Company has updated Schedule MAL-36 to reflect The Tax Cuts and Jobs Act of 2017 and a correction to the operating expense allocation between Narragansett Gas and Narragansett Electric.

- a. The first-year bill impact due exclusively to the implementation of Gas Business Enablement would be one percent, or \$12.10, per year for a residential gas heating customer using 845 therms per year and zero percent, or \$0.06, per month for a residential electric customer using 500 kWh per month.
- b. The bill impact for the remaining unrecovered cost amortization would be one percent, or \$12.02, per year for a residential gas heating customer using 845 therms per year and zero percent, or \$0.05, per month for a residential electric customer using 500 kWh per month.
- c. If the PUC denies the Company's cost recovery proposal for Gas Business Enablement, the first-year bill impact would be 4.5 percent, or \$45.72, per year for a residential gas heating customer using 845 therms per year and 6.3 percent, or \$6.60, per month for a residential electric customer using 500 kWh per month.

	Proposed Distribution Revenue (a)	Revenue Allocator (b)	Rate Year GBE (c)	Allocated GBE (d)	Therms (e)	Illustrative GBE Factor (f)
		(a)/Ln 10(a)		Ln 10 (c) x (b)		(d) / (e)
(1) Gas Lights	\$25,807	0.00%		\$0		
(2) Residential Non Heating	\$5,540,117	2.00%		\$80,965	3,775,348	\$0.0214
(3) Residential Heating	\$159,480,385	66.00%		\$2,671,845	191,758,293	\$0.0139
(4) Small C&I	\$19,853,279	8.00%		\$323,860	24,631,759	\$0.0131
(5) Medium C&I	\$28,170,598	12.00%		\$485,790	55,246,850	\$0.0087
(6) Large Low Load Factor C&I	\$12,115,890	5.00%		\$202,412	26,367,153	\$0.0076
(7) Large High Load Factor C&I	\$4,270,693	2.00%		\$80,965	13,102,776	\$0.0061
(8) XLarge Low Load Factor C&I	\$2,255,561	1.00%		\$40,482	12,231,334	\$0.0033
(9) XLarge High Load Factor C&I	\$9,656,505	4.00%		\$161,930	69,611,089	\$0.0023
(10) Total	\$241,368,836	100.00%	\$4,048,250	\$4,048,250	396,724,601	\$0.0102
(11) Annual Residential Heating Gas Usage	845					
(12) Illustrative GBE Factor	\$0.0139					
(13) GBE Increase	\$11.74					
(14) GBE Increase with GET	\$12.10					
(15) Current Residential Gas Heating Bill	\$1,226.67					
(16) <b>% Bill Increase due to GBE</b>	<b>1.0%</b>		DIV 26-6 (a)			
(17) Current Residential Gas Heating Bill	\$1,226.67					
(18) Proposed Residential Gas Heating Bill	\$1,293.49					
(19) Proposed Increase	\$66.82					
(20) Proposed % Increase	5.4%					
(21) Current Residential Gas Heating Bill	\$1,226.67					
(22) Proposed Residential Gas Heating Bill without GBE	\$1,281.39					
(23) Proposed Increase without GBE	\$54.72					
(24) <b>Proposed % Bill Increase without GBE</b>	<b>4.5%</b>		DIV 26-6 (c)			

Footnote:

Col (a) Schedule PMN-7 Pg 4 Col (AA)	(17) Ln (15)
Col (c) Attachment DIV 26-6-3 Page 6 Ln 17	(18) Schedule PMN-8 Pg 1 Ln (12) Col (b)
Col (e) Schedule PMN-7 Pg 1 Col (G)	(19) Ln (18) - Ln (17)
(11) Schedule PMN-8 Pg 1 Ln (12) Col (a)	(20) Ln (19) / Ln (17)
(12) Ln (3) Col (e)	(21) Ln (15)
(13) Ln (11) x Ln (12)	(22) Ln (18) - Ln (14)
(14) Ln (13) / .97	(23) Ln (22) - Ln (21)
(15) Schedule PMN-8 Pg 1 Ln (12) Col (c)	(24) Ln (23) / Ln (22)
(16) Ln (14) / Ln (15)	

	Proposed Distribution Revenue (a)	Revenue Allocator (b)	Rate Year GBE (c)	Allocated GBE (d)	Therms (e)	Illustrative GBE Factor (f)
		(a)/Ln 10(a)		Ln 10 (c) x (b)		(d) / (e)
(1) Gas Lights	\$25,807	0.00%		\$0		
(2) Residential Non Heating	\$5,540,117	2.00%		\$80,256	3,775,348	\$0.0212
(3) Residential Heating	\$159,480,385	66.00%		\$2,648,458	191,758,293	\$0.0138
(4) Small C&I	\$19,853,279	8.00%		\$321,025	24,631,759	\$0.0130
(5) Medium C&I	\$28,170,598	12.00%		\$481,538	55,246,850	\$0.0087
(6) Large Low Load Factor C&I	\$12,115,890	5.00%		\$200,641	26,367,153	\$0.0076
(7) Large High Load Factor C&I	\$4,270,693	2.00%		\$80,256	13,102,776	\$0.0061
(8) XLarge Low Load Factor C&I	\$2,255,561	1.00%		\$40,128	12,231,334	\$0.0032
(9) XLarge High Load Factor C&I	\$9,656,505	4.00%		\$160,513	69,611,089	\$0.0023
(10) Total	\$241,368,836	100.00%	\$4,012,815	\$4,012,815	396,724,601	\$0.0101
(11) Annual Residential Heating Gas Usage	845					
(12) GBE Factor for Residential Gas Heating Customer	\$0.0138					
(13) GBE Increase	\$11.66					
(14) GBE Increase with GET	\$12.02					
(15) Current Residential Gas Heating Bill	\$1,226.67					
(16) % <b>Bill Increase due to GBE</b>	<b>1.0%</b>	DIV 26-6 (b)				

Footnote:

Col (a) Schedule PMN-7 Pg 4 Col (AA)  
Col (c) Attachment DIV 26-6-3 Page 7-10 Sum Ln (23) through Ln (165) Col (d) divided by nine years  
Col (e) Schedule PMN-7 Pg 1 Col (G)  
(11) Schedule PMN-8 Pg 1 Ln (12) Col (a)  
(12) Ln (3) Col (e)  
(13) Ln (11) x Ln (12)  
(14) Ln (13) / .97  
(15) Schedule PMN-8 Pg 1 Ln (12) Col (e)  
(16) Ln (14) / Ln (15)

The Narragansett Electric Company  
Gas Business Enablement (GBE) effect on Electric Rates  
Year 1 Bill Impacts

	Proposed Distribution Revenue (a)	Revenue Allocator (b)	Rate Year GBE (c)	Allocated GBE (d)	kWh (e)	Illustrative GBE Factor (f)
(1) Residential A-16; A-60	\$175,713,761	56.33%		\$347,145	2,946,725,332	\$0.00011
(2) Small C&I C-06	\$33,730,938	10.81%		\$66,619	598,981,304	\$0.00011
(3) General C&I G-02	\$46,371,963	14.87%		\$91,639	1,290,927,306	\$0.00007
(4) Large Demand G-32; G-62	\$47,136,311	15.11%		\$93,119	2,373,080,009	\$0.00003
(5) Streetlighting S-XX	\$8,290,730	2.66%		\$16,393	62,049,950	\$0.00026
(6) Propulsion X-01	\$692,345	0.22%		\$1,356	23,962,704	\$0.00005
(7) Total	\$311,936,048	100.00%	\$616,271	\$616,271	7,295,726,605	\$0.00008

Monthly

(8) Monthly Usage	500
(9) Illustrative GBE Factor	\$0.00011
(10) GBE Increase	\$0.06
(11) GBE Increase with GET	\$0.06
(12) Current Residential Bill	\$105.27
(13) <b>% Bill Increase</b>	<b>0.0%</b> DIV 26-6 (a)
(14) Current Residential Bill	\$105.27
(15) Proposed Residential Bill	\$111.93
(16) Proposed Increase	\$6.66
(17) Proposed % Increase	<b>6.3%</b>
(18) Current Residential Bill	\$105.27
(19) Proposed Residential Bill without GBE	\$111.87
(20) Proposed Increase without GBE	\$6.60
(21) <b>Proposed % Bill Increase without GBE</b>	<b>6.3%</b> DIV 26-6 (c)

(a) RIPUC Docket 4770, Schedule HSG-3, Page (2), Line (47)	(12) RIPUC Docket 4770, Schedule HSG-5-A
(b) Lines (1) - (6) ÷ Line (7)	(13) Line (11) ÷ Line (12)
(c) Attachment DIV 26-6-3, Page (11), Line (20)	(14) Line (12)
(d) Lines (1) - (6) X Column (c) Total	(15) RIPUC Docket 4770, Schedule HSG-5-A
(e) RIPUC Docket 4770, Schedule HSG-4-K, Column (h)	(16) Line (15) - Line (14)
(f) Column (d) ÷ Column (e), truncated to 5 decimal places	(17) Line (16) ÷ Line (14)
(8) Typical usage for Residential customer	(18) Line (12)
(9) Column (f), Line (1)	(19) Line (15) - Line (11)
(10) Line (8) X Line (9), rounded to 2 decimal places	(20) Line (19) - Line (18)
(11) Line (10) X 4.166667%	(21) Line (20) ÷ Line (18)

The Narragansett Electric Company  
Gas Business Enablement (GBE) effect on Electric Rates  
Year 1 Bill Impacts

	Proposed Distribution Revenue (a)	Revenue Allocator (b)	Unamortized GBE (c)	Allocated GBE (d)	kWh (e)	Illustrative GBE Factor (f)
(1) Residential A-16; A-60	\$175,713,761	56.33%		\$300,210	2,946,725,332	\$0.00010
(2) Small C&I C-06	\$33,730,938	10.81%		\$57,612	598,981,304	\$0.00009
(3) General C&I G-02	\$46,371,963	14.87%		\$79,250	1,290,927,306	\$0.00006
(4) Large Demand G-32; G-62	\$47,136,311	15.11%		\$80,529	2,373,080,009	\$0.00003
(5) Streetlighting S-XX	\$8,290,730	2.66%		\$14,176	62,049,950	\$0.00022
(6) Propulsion X-01	\$692,345	0.22%		\$1,172	23,962,704	\$0.00004
(7) Total	\$311,936,048	100.00%	\$532,949	\$532,949	7,295,726,605	\$0.00007

Monthly

(8) Monthly Usage	500
(9) Illustrative GBE Factor	\$0.00010
(10) GBE Increase	\$0.05
(11) GBE Increase with GET	\$0.05
(12) Current Residential Bill	\$105.27
(13) % Bill Increase	<b>0.0%</b>

- |     |  |      |  |
|-----|--|------|--|
| (a) | RIPUC Docket 4770, Schedule HSG-3, Page (2), Line (47)   | (8)  | Typical usage for Residential customer           |
| (b) | Lines (1) - (6) ÷ Line (7)   | (9)  | Column (f), Line (1)                             |
| (c) | Attachment DIV 26-6-3, pages (12) - (16), sum of columns (a) through (c) from 9/1/2019 - 3/31/2029 ÷ 9 (for annual impact) | (10) | Line (8) X Line (9), rounded to 2 decimal places |
| (d) | Lines (1) - (6) X Column (c) Total   | (11) | Line (10) X 4.166667%                            |
| (e) | RIPUC Docket 4770, Schedule HSG-4-K, Column (h)  | (12) | RIPUC Docket 4770, Schedule HSG-5-A              |
| (f) | Column (d) ÷ Column (e), truncated to 5 decimal places   | (13) | Line (11) ÷ Line (12)                            |

The Narragansett Electric Company d/b/a National Grid  
New Initiative  
Gas Business Enablement

	Test Year Ended June 30, 2017 (Per Books)			Normalizing Adjustments			Test Year Ended June 30, 2017 (as Adjusted)			
	Total	Electric	Gas	Total	Electric	Gas	Total	Electric	Gas	
	(a) = (b) + (c)	(b)	(c)	(d) = (e) + (f)	(e)	(f)	(g) = (h) + (i)	(h) = (b) + (e)	(i) = (c) + (f)	
Provider Company:										
1	Narragansett Electric Company	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2	National Grid USA Service Company	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
3	All Other Companies	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4	Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5										
6										
Operation:										
8	Production Expenses	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
9	Power Production Expenses	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
10	Natural Gas Storage, Terminaling	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
11	and Processing Exp.									
12	Transmission Expenses	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
13	Regional Market Expenses	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
14	Distribution Expenses	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
15	Customer Accounts Expenses	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
16	Customer Service and	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
17	Informational Expenses									
18	Sales Expenses	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
19	Administrative & General Expenses	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
20	Sub Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
21										
Maintenance:										
23	Transmission Expenses	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
24	Distribution Expenses	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
25	Administrative & General Expenses	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
26	Sub Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
27										
28	TOTAL	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

The Narragansett Electric Company d/b/a National Grid  
New Initiative  
Gas Business Enablement

	Test Year Ended June 30, 2017 (as Adjusted)			Proforma Adjustments			Rate Year Ending August 31, 2019			
	Total	Electric	Gas	Total	Electric	Gas	Total	Electric	Gas	
	(a) = (b) + (c)	(b)	(c)	(d) = (e) + (f)	(e)	(f)	(g) = (h) + (i)	(h) = (b) + (e)	(i) = (c) + (f)	
1	Provider Company:									
1	Narragansett Electric Company	\$0	\$0	\$0	\$4,664,320	\$ 616,071	\$ 4,048,250	\$4,664,320	\$616,071	\$4,048,250
2	National Grid USA Service Company	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
3	All Other Companies	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4	Total	\$0	\$0	\$0	\$4,664,320	\$616,071	\$4,048,250	\$4,664,320	\$616,071	\$4,048,250
5										
6										
7	Operation:									
8	Production Expenses	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
9	Power Production Expenses	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
10	Natural Gas Storage, Terminaling and Processing Exp.	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
12	Transmission Expenses	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
13	Regional Market Expenses	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
14	Distribution Expenses	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
15	Customer Accounts Expenses	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
16	Customer Service and Informational Expenses	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
18	Sales Expenses	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
19	Administrative & General Expenses	\$0	\$0	\$0	\$4,664,320	\$616,071	\$4,048,250	\$4,664,320	\$616,071	\$4,048,250
20	Sub Total	\$0	\$0	\$0	\$4,664,320	\$616,071	\$4,048,250	\$4,664,320	\$616,071	\$4,048,250
21										
22	Maintenance:									
23	Transmission Expenses	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
24	Distribution Expenses	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
25	Administrative & General Expenses	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
26	Sub Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
27										
28	TOTAL	\$0	\$0	\$0	\$4,664,320	\$616,071	\$4,048,250	\$4,664,320	\$616,071	\$4,048,250
		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

Line Notes

- 4 Page 5, Line 15
- 19 Line 4

The Narragansett Electric Company d/b/a National Grid  
New Initiative  
Gas Business Enablement

	Rate Year Ending August 31, 2019 <u>Electric</u> (a)	Adjustments to Reflect Conditions in Data Year <u>Electric</u> (b)	Data Year 1 Ending August 31, 2020 <u>Electric</u> (c) = (a) + (b)	Adjustments to Reflect Conditions in Data Year <u>Electric</u> (d)	Data Year 2 Ending August 31, 2021 <u>Electric</u> (e) = (c) + (d)	
Provider Company:						
1	Narragansett Electric Company	\$616,071	\$22,216	\$638,287	\$ (26,762)	\$611,524
2	National Grid USA Service Company	\$0	\$0	\$0	\$0	\$0
3	All Other Companies	\$0	\$0	\$0	\$0	\$0
4	Total	<u>\$616,071</u>	<u>\$22,216</u>	<u>\$638,287</u>	<u>(\$26,762)</u>	<u>\$611,524</u>
5						
6						
7	Operation:					
8	Production Expenses	\$0	\$0	\$0	\$0	\$0
9	Power Production Expenses	\$0	\$0	\$0	\$0	\$0
10	Natural Gas Storag, Terminaling and Processing Exp.	\$0	\$0	\$0	\$0	\$0
11						
12	Transmission Expenses	\$0	\$0	\$0	\$0	\$0
13	Regional Market Expenses	\$0	\$0	\$0	\$0	\$0
14	Distribution Expenses	\$0	\$0	\$0	\$0	\$0
15	Customer Accounts Expenses	\$0	\$0	\$0	\$0	\$0
16	Customer Service and Informational Expenses	\$0	\$0	\$0	\$0	\$0
17						
18	Sales Expenses	\$0	\$0	\$0	\$0	\$0
19	Administrative & General Expenses	\$616,071	\$22,216	\$638,287	(\$26,762)	\$611,524
20	Sub Total	<u>\$616,071</u>	<u>\$22,216</u>	<u>\$638,287</u>	<u>(\$26,762)</u>	<u>\$611,524</u>
21						
22	Maintenance:					
23	Transmission Expenses	\$0	\$0	\$0	\$0	\$0
24	Distribution Expenses	\$0	\$0	\$0	\$0	\$0
25	Administrative & General Expenses	\$0	\$0	\$0	\$0	\$0
26	Sub Total	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>
27						
28	TOTAL	<u>\$616,071</u>	<u>\$22,216</u>	<u>\$638,287</u>	<u>(\$26,762)</u>	<u>\$611,524</u>
		\$0	\$0	\$0	\$0	\$0

Column Notes

- (a) Page 2, Column (h)
- (b) Page 5, Line 28(b)
- (d) Page 5, Line 38(b)

Line Notes

- 19 Line 4

The Narragansett Electric Company d/b/a National Grid  
New Initiative  
Gas Business Enablement

	Rate Year Ending August 31, 2019	Adjustments to Reflect Conditions in Data Year	Data Year 1 Ending August 31, 2020	Adjustments to Reflect Conditions in Data Year	Data Year 2 Ending August 31, 2021	
	Gas	Gas	Gas	Gas	Gas	
	(a)	(b)	(c) = (a) + (b)	(d)	(e) = (c) + (d)	
<b>Provider Company:</b>						
1	Narragansett Electric Company	\$4,048,250	\$532,044	\$4,580,294	\$202,301	\$4,782,595
2	National Grid USA Service Company	\$0	\$0	\$0	\$0	\$0
3	All Other Companies	\$0	\$0	\$0	\$0	\$0
4	Total	<u>\$4,048,250</u>	<u>\$532,044</u>	<u>\$4,580,294</u>	<u>\$202,301</u>	<u>\$4,782,595</u>
5						
6						
7	<b>Operation:</b>					
8	Production Expenses	\$0	\$0	\$0	\$0	\$0
9	Power Production Expenses	\$0	\$0	\$0	\$0	\$0
10	Natural Gas Storag, Terminaling	\$0	\$0	\$0	\$0	\$0
11	and Processing Exp.					
12	Transmission Expenses	\$0	\$0	\$0	\$0	\$0
13	Regional Market Expenses	\$0	\$0	\$0	\$0	\$0
14	Distribution Expenses	\$0	\$0	\$0	\$0	\$0
15	Customer Accounts Expenses	\$0	\$0	\$0	\$0	\$0
16	Customer Service and	\$0	\$0	\$0	\$0	\$0
17	Informational Expenses					
18	Sales Expenses	\$0	\$0	\$0	\$0	\$0
19	Administrative & General Expenses	\$4,048,250	\$532,044	\$4,580,294	\$202,301	\$4,782,595
20	Sub Total	<u>\$4,048,250</u>	<u>\$532,044</u>	<u>\$4,580,294</u>	<u>\$202,301</u>	<u>\$4,782,595</u>
21						
22	<b>Maintenance:</b>					
23	Transmission Expenses	\$0	\$0	\$0	\$0	\$0
24	Distribution Expenses	\$0	\$0	\$0	\$0	\$0
25	Administrative & General Expenses	\$0	\$0	\$0	\$0	\$0
26	Sub Total	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>
27						
28	TOTAL	<u>\$4,048,250</u>	<u>\$532,044</u>	<u>\$4,580,294</u>	<u>\$202,301</u>	<u>\$4,782,595</u>
		\$0	\$0	\$0	\$0	\$0

Column Notes

- (a) Page 2, Column (i)
- (b) Page 5, Line 28(c)
- (d) Page 5, Line 38(c)

Line Notes

- 19 Line 4

The Narragansett Electric Company d/b/a National Grid  
New Initiative  
Gas Business Enablement

Explanation of Adjustments:				Provider Company	Source Workpaper	Total (a) = (b) + (c)	Electric (b)	Gas (c)
1	BU	HTY Adjustment Page 1	Known and Measurable					
2			Gas Business Enablement	National Grid USA Service Company	Workpaper 1	\$0	\$0	\$0
3	99				Workpaper 1	\$0	\$0	\$0
4					Workpaper 1	\$0	\$0	\$0
5						\$0	\$0	\$0
6						\$0	\$0	\$0
7						\$0	\$0	\$0
8						\$0	\$0	\$0
9						\$0	\$0	\$0
10						<u>\$0</u>	<u>\$0</u>	<u>\$0</u>
11								
12								
13								
14		Page 2	Adjustments: (to reflect conditions in the Rate Year 2019)					
15		Forecast specific initiatives - amount different from general inflation				\$4,664,320	616,071	4,048,250
16								
17								
18				Narragansett Electric Company		\$0	-	\$0
19				National Grid USA Service Co.		\$0	\$0	\$0
20						\$0	\$0	\$0
21						<u>\$0</u>	<u>\$0</u>	<u>\$0</u>
22			TOTAL			<u>\$0</u>	<u>\$ -</u>	<u>\$ -</u>
23								
24		Page 2	Adjustments: (to reflect conditions in the Rate Year 2020)					
25		Forecast specific initiatives - amount different from general inflation				\$5,218,581	638,287	4,580,294
26								
27								
28				Narragansett Electric Company		\$554,260	22,216	532,044
29				National Grid USA Service Co.		\$0	\$0	\$0
30						\$0	\$0	\$0
31						<u>\$0</u>	<u>\$0</u>	<u>\$0</u>
32			TOTAL			<u>\$554,260</u>	<u>\$ 22,216</u>	<u>\$ 532,044</u>
33								
34		Page 2	Adjustments: (to reflect conditions in the Rate Year 2021)					
35		Forecast specific initiatives - amount different from general inflation				\$5,394,120	611,524	4,782,595
36								
37								
38				Narragansett Electric Company		\$175,539	(26,762)	202,301
39				National Grid USA Service Co.		\$0	\$0	\$0
40						\$0	\$0	\$0
41						<u>\$0</u>	<u>\$0</u>	<u>\$0</u>
42			TOTAL			<u>\$175,539</u>	<u>\$ (26,762)</u>	<u>\$ 202,301</u>

Line Notes

- 15(b)
- 15(c) Page 6, Line 17(g)
- 26(b) Page 11, Line 16(i)
- 26(c) Page 6, Line 17(h)
- 28(b) 26(b) - 15(b)
- 28(c) 26(c)-15(c)
- 36(b) Page 11, Line 16(j)
- 36(c) Page 6, Line 17(i)
- 38(b) 36(b) - 26(b)
- 38(c) 36(c) - 26(c)

The Narragansett Electric Company d/b/a National Grid  
New Initiative  
Gas Business Enablement  
Gas

	(a) HTY	(b) FY18	(c) FY19	(d) FY20	(e) FY21	(f) FY22	(g) FY23	(h) FY24	(i) FY25	(j) FY26	(k) FY27	(l) FY28	(m) FY29	(n) FY30	(o) FY31	(p) FY32	(q) FY33	(r) NECO Total	(s)
1 Return on investment	\$0	\$25,098	\$615,726	\$797,287	\$1,032,113	\$991,152	\$855,032	\$718,330	\$586,263	\$455,576	\$324,894	\$194,301	\$90,583	\$41,792	(\$7,416)	\$11	\$0	\$6,720,743	
2 Depreciation	\$0	\$34,466	\$1,018,268	\$1,438,956	\$1,970,023	\$2,127,274	\$2,128,435	\$2,128,435	\$2,128,435	\$2,128,435	\$2,128,435	\$2,093,969	\$1,110,167	\$689,478	\$158,411	\$1,160	\$0	\$21,284,346	
3 Operating expense	\$1,492,545	\$1,684,324	\$4,145,909	\$2,507,605	\$1,375,242	\$359,422	\$80,849	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$11,645,896	54.72%
4 Run The Business (RTB)	\$0	\$105,478	\$523,625	\$1,137,916	\$1,350,664	\$1,302,702	\$1,302,702	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,723,087	
5 Savings offset	\$0	\$0	(\$10,562)	(\$122,691)	(\$718,332)	(\$836,877)	(\$892,613)	(\$892,613)	(\$892,613)	(\$892,613)	(\$892,613)	\$0	\$0	\$0	\$0	\$0	\$0	(\$6,151,527)	
6 Total Revenue Requirement	\$1,492,545	\$1,849,366	\$6,292,966	\$5,759,073	\$5,009,711	\$3,943,673	\$3,474,405	\$1,954,152	\$1,822,085	\$1,691,397	\$1,560,716	\$2,288,270	\$1,200,749	\$731,270	\$150,995	\$1,171	\$0	\$39,222,544	

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	Opex Straight Lined 10 yrs		
	RYE Aug 19	RYE Aug 20	RYE Aug 21
Return	\$800,464	\$902,121	\$1,016,128
Amortization	\$1,360,899	\$1,657,897	\$2,038,924
Incremental Opex (shaped vs SL)	\$1,164,590	\$1,164,590	\$1,164,590
Run the Business	\$779,580	\$1,226,561	\$1,330,680
Savings offset	(\$57,283)	(\$370,875)	(\$767,726)
Total RR	\$4,048,250	\$4,580,294	\$4,782,595
Capital - related	\$2,161,363	\$2,560,018	\$3,055,052
Operating exp net of savings	\$1,886,887	\$2,020,276	\$1,727,543
Total Revenue Requirement	\$4,048,250	\$4,580,294	\$4,782,595

Line Notes  
1 Pages 7 through 10, Column (a)  
2 Pages 7 through 10, Column (b)  
3 Total project spend  
14 Line 3r divided by 10 years  
15 Line 4(c)/12 x 7 + Line 4(d)/12 x 5

17 Line 12(g) + Line13(g) +Line 14(g) + Line 15(g) + Line 16(g)

Column Note  
(s) Line 3(r) divided by Line 2(r)

The Narragansett Electric Company d/b/a National Grid  
New Initiative  
Gas Business Enablement  
Service Company Rent Expense and Operating Expense  
Allocated to Narragansett Electric Company

	Date	TOTAL GBE			Totals
		NECO Return	NECO Depr	NECO Opex	
1	11/01/17	\$0	\$0	\$0	\$0
2	12/01/17	\$0	\$0	\$0	\$0
3	01/01/18	\$0	\$0	\$0	\$0
4	02/01/18	\$0	\$0	\$0	\$0
5	03/01/18	\$25,098	\$34,466	\$18,858	\$78,422
6	04/01/18	\$20,968	\$34,466	\$18,858	\$74,292
7	05/01/18	\$35,899	\$55,129	\$30,164	\$121,191
8	06/01/18	\$33,303	\$55,129	\$30,164	\$118,596
9	07/01/18	\$33,111	\$55,129	\$30,164	\$118,403
10	08/01/18	\$33,097	\$55,364	\$30,293	\$118,753
11	09/01/18	\$32,877	\$55,364	\$30,293	\$118,534
12	10/01/18	\$78,132	\$117,801	\$64,456	\$260,388
13	11/01/18	\$70,432	\$117,801	\$64,456	\$252,688
14	12/01/18	\$69,998	\$117,801	\$64,456	\$252,254
15	01/01/19	\$69,552	\$117,801	\$64,456	\$251,808
16	02/01/19	\$69,093	\$117,801	\$64,456	\$251,349
17	03/01/19	\$69,266	\$118,685	\$64,940	\$252,891
18	04/01/19	\$68,676	\$118,685	\$64,940	\$252,301
19	05/01/19	\$68,176	\$118,685	\$64,940	\$251,801
20	06/01/19	\$68,736	\$120,159	\$65,746	\$254,641
21	07/01/19	\$68,035	\$120,159	\$65,746	\$253,939
22	08/01/19	\$67,492	\$120,159	\$65,746	\$253,396
23	09/01/19	\$66,937	\$120,159	\$65,746	\$252,841
24	10/01/19	\$66,368	\$120,159	\$65,746	\$252,273
25	11/01/19	\$65,787	\$120,159	\$65,746	\$251,691
26	12/01/19	\$65,193	\$120,159	\$65,746	\$251,097
27	01/01/20	\$64,586	\$120,159	\$65,746	\$250,490
28	02/01/20	\$63,966	\$120,159	\$65,746	\$249,871
29	03/01/20	\$63,334	\$120,159	\$65,746	\$249,238
30	04/01/20	\$90,877	\$157,795	\$86,339	\$335,011
31	05/01/20	\$90,610	\$164,748	\$90,143	\$345,501
32	06/01/20	\$88,985	\$164,748	\$90,143	\$343,876
33	07/01/20	\$88,160	\$164,748	\$90,143	\$343,051
34	08/01/20	\$87,317	\$164,748	\$90,143	\$342,208
35	09/01/20	\$86,457	\$164,748	\$90,143	\$341,348
36	10/01/20	\$85,578	\$164,748	\$90,143	\$340,470
37	11/01/20	\$84,682	\$164,748	\$90,143	\$339,574
38	12/01/20	\$83,769	\$164,748	\$90,143	\$338,660
39	01/01/21	\$82,837	\$164,748	\$90,143	\$337,728
40	02/01/21	\$81,888	\$164,748	\$90,143	\$336,779
41	03/01/21	\$80,954	\$164,748	\$90,143	\$335,845
42	04/01/21	\$88,998	\$177,053	\$96,876	\$362,928
43	05/01/21	\$86,604	\$177,053	\$96,876	\$360,533
44	06/01/21	\$85,649	\$177,053	\$96,876	\$359,579
45	07/01/21	\$84,770	\$177,158	\$96,933	\$358,861
46	8/1/2021	\$83,943	\$177,370	\$97,049	\$358,362
47	09/01/21	\$82,923	\$177,370	\$97,049	\$357,342
48	10/01/21	\$81,976	\$177,370	\$97,049	\$356,394
49	11/01/21	\$81,078	\$177,370	\$97,049	\$355,497
50	12/01/21	\$80,174	\$177,370	\$97,049	\$354,593
51	01/01/22	\$79,264	\$177,370	\$97,049	\$353,683
52	02/01/22	\$78,347	\$177,370	\$97,049	\$352,766
53	03/01/22	\$77,425	\$177,370	\$97,049	\$351,843

The Narragansett Electric Company d/b/a National Grid  
New Initiative  
Gas Business Enablement  
Service Company Rent Expense and Operating Expense  
Allocated to Narragansett Electric Company

	Date	(a)	(b)	(c)	(d)
		TOTAL GBE			Totals
		NECO Return	NECO Depr	NECO Opex	
54	04/01/22	\$76,497	\$177,370	\$97,049	\$350,915
55	05/01/22	\$75,562	\$177,370	\$97,049	\$349,981
56	06/01/22	\$74,623	\$177,370	\$97,049	\$349,041
57	07/01/22	\$73,678	\$177,370	\$97,049	\$348,097
58	08/01/22	\$72,727	\$177,370	\$97,049	\$347,146
59	09/01/22	\$71,770	\$177,370	\$97,049	\$346,189
60	10/01/22	\$70,807	\$177,370	\$97,049	\$345,226
61	11/01/22	\$69,838	\$177,370	\$97,049	\$344,256
62	12/01/22	\$68,862	\$177,370	\$97,049	\$343,281
63	01/01/23	\$67,880	\$177,370	\$97,049	\$342,299
64	02/01/23	\$66,892	\$177,370	\$97,049	\$341,310
65	03/01/23	\$65,897	\$177,370	\$97,049	\$340,316
66	04/01/23	\$64,934	\$177,370	\$97,049	\$339,352
67	05/01/23	\$64,010	\$177,370	\$97,049	\$338,429
68	06/01/23	\$63,092	\$177,370	\$97,049	\$337,511
69	07/01/23	\$62,173	\$177,370	\$97,049	\$336,592
70	08/01/23	\$61,252	\$177,370	\$97,049	\$335,671
71	09/01/23	\$60,330	\$177,370	\$97,049	\$334,749
72	10/01/23	\$59,406	\$177,370	\$97,049	\$333,825
73	11/01/23	\$58,482	\$177,370	\$97,049	\$332,900
74	12/01/23	\$57,555	\$177,370	\$97,049	\$331,974
75	01/01/24	\$56,628	\$177,370	\$97,049	\$331,047
76	02/01/24	\$55,699	\$177,370	\$97,049	\$330,118
77	3/1/2024	\$54,769	\$177,370	\$97,049	\$329,187
78	04/01/24	\$53,849	\$177,370	\$97,049	\$328,268
79	05/01/24	\$52,941	\$177,370	\$97,049	\$327,359
80	06/01/24	\$52,032	\$177,370	\$97,049	\$326,451
81	07/01/24	\$51,124	\$177,370	\$97,049	\$325,542
82	08/01/24	\$50,216	\$177,370	\$97,049	\$324,635
83	09/01/24	\$49,309	\$177,370	\$97,049	\$323,727
84	10/01/24	\$48,401	\$177,370	\$97,049	\$322,820
85	11/01/24	\$47,494	\$177,370	\$97,049	\$321,912
86	12/01/24	\$46,586	\$177,370	\$97,049	\$321,005
87	01/01/25	\$45,679	\$177,370	\$97,049	\$320,097
88	02/01/25	\$44,771	\$177,370	\$97,049	\$319,190
89	03/01/25	\$43,863	\$177,370	\$97,049	\$318,282
90	04/01/25	\$42,956	\$177,370	\$97,049	\$317,375
91	05/01/25	\$42,048	\$177,370	\$97,049	\$316,467
92	06/01/25	\$41,141	\$177,370	\$97,049	\$315,560
93	07/01/25	\$40,233	\$177,370	\$97,049	\$314,652
94	08/01/25	\$39,326	\$177,370	\$97,049	\$313,745
95	09/01/25	\$38,418	\$177,370	\$97,049	\$312,837
96	10/01/25	\$37,511	\$177,370	\$97,049	\$311,930
97	11/01/25	\$36,603	\$177,370	\$97,049	\$311,022
98	12/01/25	\$35,696	\$177,370	\$97,049	\$310,115
99	01/01/26	\$34,788	\$177,370	\$97,049	\$309,207
100	02/01/26	\$33,881	\$177,370	\$97,049	\$308,300
101	03/01/26	\$32,973	\$177,370	\$97,049	\$307,392
102	04/01/26	\$32,066	\$177,370	\$97,049	\$306,485
103	05/01/26	\$31,158	\$177,370	\$97,049	\$305,577
104	06/01/26	\$30,251	\$177,370	\$97,049	\$304,669
105	07/01/26	\$29,343	\$177,370	\$97,049	\$303,762
106	08/01/26	\$28,436	\$177,370	\$97,049	\$302,854
107	09/01/26	\$27,528	\$177,370	\$97,049	\$301,947

The Narragansett Electric Company d/b/a National Grid  
New Initiative  
Gas Business Enablement  
Service Company Rent Expense and Operating Expense  
Allocated to Narragansett Electric Company

	Date	(a)	(b)	(c)	(d)
		TOTAL GBE			Totals
		NECO Return	NECO Depr	NECO Opex	
108	10/1/2026	\$26,621	\$177,370	\$97,049	\$301,039
109	11/01/26	\$25,713	\$177,370	\$97,049	\$300,132
110	12/01/26	\$24,806	\$177,370	\$97,049	\$299,224
111	01/01/27	\$23,898	\$177,370	\$97,049	\$298,317
112	02/01/27	\$22,991	\$177,370	\$97,049	\$297,409
113	03/01/27	\$22,083	\$177,370	\$97,049	\$296,502
114	04/01/27	\$21,176	\$177,370	\$97,049	\$295,594
115	05/01/27	\$20,268	\$177,370	\$97,049	\$294,687
116	06/01/27	\$19,361	\$177,370	\$97,049	\$293,779
117	07/01/27	\$18,453	\$177,370	\$97,049	\$292,872
118	08/01/27	\$17,546	\$177,370	\$97,049	\$291,964
119	09/01/27	\$16,638	\$177,370	\$97,049	\$291,057
120	10/01/27	\$15,731	\$177,370	\$97,049	\$290,149
121	11/01/27	\$14,823	\$177,370	\$97,049	\$289,242
122	12/01/27	\$13,916	\$177,370	\$97,049	\$288,334
123	01/01/28	\$13,008	\$177,370	\$97,049	\$287,427
124	02/01/28	\$12,101	\$177,370	\$97,049	\$286,519
125	03/01/28	\$11,281	\$142,904	\$78,191	\$232,376
126	04/01/28	\$10,551	\$142,904	\$78,191	\$231,645
127	05/01/28	\$9,873	\$122,241	\$66,885	\$198,999
128	06/01/28	\$9,248	\$122,241	\$66,885	\$198,374
129	07/01/28	\$8,623	\$122,241	\$66,885	\$197,749
130	08/01/28	\$7,999	\$122,006	\$66,756	\$196,761
131	09/01/28	\$7,375	\$122,006	\$66,756	\$196,137
132	10/01/28	\$6,911	\$59,569	\$32,594	\$99,074
133	11/01/28	\$6,608	\$59,569	\$32,594	\$98,770
134	12/01/28	\$6,304	\$59,569	\$32,594	\$98,466
135	01/01/29	\$6,000	\$59,569	\$32,594	\$98,163
136	02/01/29	\$5,697	\$59,569	\$32,594	\$97,859
137	03/01/29	\$5,395	\$58,684	\$32,109	\$96,189
138	04/01/29	\$5,096	\$58,684	\$32,109	\$95,890
139	05/01/29	\$4,797	\$58,684	\$32,109	\$95,591
140	06/01/29	\$4,502	\$57,211	\$31,303	\$93,016
141	07/01/29	\$4,210	\$57,211	\$31,303	\$92,725
142	08/01/29	\$3,919	\$57,211	\$31,303	\$92,433
143	09/01/29	\$3,627	\$57,211	\$31,303	\$92,142
144	10/01/29	\$3,336	\$57,211	\$31,303	\$91,850
145	11/01/29	\$3,044	\$57,211	\$31,303	\$91,559
146	12/01/29	\$2,753	\$57,211	\$31,303	\$91,267
147	01/01/30	\$2,461	\$57,211	\$31,303	\$90,975
148	02/01/30	\$2,169	\$57,211	\$31,303	\$90,684
149	03/01/30	\$1,878	\$57,211	\$31,303	\$90,392
150	04/01/30	(\$196)	\$19,574	\$10,710	\$30,088
151	05/01/30	(\$288)	\$12,622	\$6,906	\$19,240
152	06/01/30	(\$361)	\$12,622	\$6,906	\$19,166
153	07/01/30	(\$435)	\$12,622	\$6,906	\$19,092
154	08/01/30	(\$509)	\$12,622	\$6,906	\$19,019
155	09/01/30	(\$582)	\$12,622	\$6,906	\$18,945
156	10/01/30	(\$656)	\$12,622	\$6,906	\$18,872
157	11/01/30	(\$730)	\$12,622	\$6,906	\$18,798
158	12/01/30	(\$803)	\$12,622	\$6,906	\$18,724
159	01/01/31	(\$877)	\$12,622	\$6,906	\$18,651

The Narragansett Electric Company d/b/a National Grid  
New Initiative  
Gas Business Enablement  
Service Company Rent Expense and Operating Expense  
Allocated to Narragansett Electric Company

	(a)	(b)	(c)	(d)
	TOTAL GBE			
Date	NECO Return	NECO Depr	NECO Opex	Totals
160 02/01/31	(\$950)	\$12,622	\$6,906	\$18,577
161 03/01/31	(\$1,029)	\$12,622	\$6,906	\$18,499
162 04/01/31	\$5	\$316	\$173	\$494
163 05/01/31	\$4	\$316	\$173	\$493
164 06/01/31	\$2	\$316	\$173	\$491
165 07/01/31	\$1	\$212	\$116	\$328
	<b>\$6,720,743</b>	<b>\$21,284,346</b>	<b>\$11,645,896</b>	<b>\$39,650,984</b>

The Narragansett Electric Company d/b/a National Grid  
New Initiative  
Gas Business Enablement  
Electric

GBE Revenue Requirement	(a) FY17	(b) FY18	(c) FY19	(d) FY20	(e) FY21	(f) FY22	(g) FY23	(h) FY24	(i) FY25	(j) FY26	(k) FY27	(l) FY28	(m) FY29	(n) FY30	(o) FY31	(p) FY32	(q) FY33	Check	Total
1 Return	\$0	\$9,857	\$159,002	\$209,713	\$185,054	\$157,953	\$134,071	\$110,824	\$87,576	\$64,329	\$41,082	\$17,869	\$1,976	\$0	\$0	\$0	\$0	\$0	\$1,179,307
2 Amortization	\$0	\$13,536	\$263,408	\$377,911	\$377,911	\$377,911	\$377,911	\$377,911	\$377,911	\$377,911	\$377,911	\$364,375	\$114,503	\$0	\$0	\$0	\$0	\$0	\$ 3,779,111
3 Incremental Opex (spend)	\$0	\$265,529	\$209,726	\$110,030	\$15,132	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$600,417
4 Run the Business (RTB)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$ -
5 Savings offset	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$ -
6 Total Revenue Requirement	\$0	\$288,922	\$632,136	\$697,654	\$578,098	\$535,864	\$511,982	\$488,735	\$465,487	\$442,240	\$418,993	\$382,245	\$116,480	\$0	\$0	\$0	\$0	\$0	\$5,558,834
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			

  

	Opex Straight Lined 10 yrs		
	RYE Aug 19	RYE Aug 20	RYE Aug 21
Return	\$207,765	\$200,133	\$173,571
Amortization	\$352,501	\$377,911	\$377,911
Incremental Opex (shaped vs SL)	\$56,005	\$60,042	\$60,042
Run the Business (RTB)	\$0	\$0	\$0
Savings offset	\$0	\$0	\$0
Total RR	\$616,271	\$638,086	\$611,524
Capital - related	\$560,266	\$578,044	\$551,483
Operating exp net of savings	\$56,005	\$60,042	\$60,042
Total Revenue Requirement	\$616,271	\$638,086	\$611,524

Line Notes

- 1 Pages 12 through 16, Column (a)
- 2 Pages 12 through 16, Column (b)
- 16 Line 11(h) + 12(h)

The Narragansett Electric Company d/b/a National Grid  
New Initiative  
Gas Business Enablement  
Service Company Rent Expense and Operating Expense  
Allocated to Narragansett Electric Company

	(a)	(b)	(c)	(d)	
	<b>TOTAL</b>				
	<b>RI Elec Return</b>	<b>RI Elec Depr</b>	<b>RI Elec Opex</b>	<b>RI Elec RTB</b>	<b>Totals</b>
11/1/2017	-	-	\$0	\$0	\$0
12/1/2017	-	-	\$0	\$0	\$0
1/1/2018	-	-	\$0	\$0	\$0
2/1/2018	-	-	\$0	\$0	\$0
3/1/2018	\$9,857	\$13,536	\$0	\$0	\$23,392
4/1/2018	\$8,235	\$13,536	\$0	\$0	\$21,770
5/1/2018	\$8,189	\$13,536	\$0	\$0	\$21,725
6/1/2018	\$8,142	\$13,536	\$0	\$0	\$21,678
7/1/2018	\$8,094	\$13,536	\$0	\$0	\$21,630
8/1/2018	\$8,472	\$14,081	\$0	\$0	\$22,552
9/1/2018	\$8,385	\$14,081	\$0	\$0	\$22,465
10/1/2018	\$19,715	\$29,718	\$0	\$0	\$49,432
11/1/2018	\$17,783	\$29,718	\$0	\$0	\$47,500
12/1/2018	\$17,670	\$29,718	\$0	\$0	\$47,388
1/1/2019	\$17,555	\$29,718	\$0	\$0	\$47,272
2/1/2019	\$17,436	\$29,718	\$0	\$0	\$47,154
3/1/2019	\$18,501	\$31,346	\$0	\$0	\$49,847
4/1/2019	\$18,181	\$31,346	\$0	\$0	\$49,527
5/1/2019	\$18,047	\$31,346	\$0	\$0	\$49,393
6/1/2019	\$17,910	\$31,346	\$0	\$0	\$49,257
7/1/2019	\$17,770	\$31,346	\$0	\$0	\$49,116
8/1/2019	\$17,627	\$31,346	\$0	\$0	\$48,973
9/1/2019	\$17,480	\$31,346	\$0	\$0	\$48,826
10/1/2019	\$17,330	\$31,346	\$0	\$0	\$48,676
11/1/2019	\$17,176	\$31,346	\$0	\$0	\$48,523
12/1/2019	\$17,019	\$31,346	\$0	\$0	\$48,366
1/1/2020	\$16,859	\$31,346	\$0	\$0	\$48,206
2/1/2020	\$16,696	\$31,346	\$0	\$0	\$48,042
3/1/2020	\$16,529	\$31,346	\$0	\$0	\$47,875
4/1/2020	\$16,359	\$31,346	\$0	\$0	\$47,705
5/1/2020	\$16,185	\$31,346	\$0	\$0	\$47,532
6/1/2020	\$16,009	\$31,346	\$0	\$0	\$47,355
7/1/2020	\$15,829	\$31,346	\$0	\$0	\$47,175

The Narragansett Electric Company d/b/a National Grid  
New Initiative  
Gas Business Enablement  
Service Company Rent Expense and Operating Expense  
Allocated to Narragansett Electric Company

	(a)	(b)	(c)	(d)	
	<b>TOTAL</b>				
	<b>RI Elec Return</b>	<b>RI Elec Depr</b>	<b>RI Elec Opex</b>	<b>RI Elec RTB</b>	<b>Totals</b>
8/1/2020	\$15,645	\$31,346	\$0	\$0	\$46,992
9/1/2020	\$15,459	\$31,346	\$0	\$0	\$46,805
10/1/2020	\$15,268	\$31,346	\$0	\$0	\$46,615
11/1/2020	\$15,075	\$31,346	\$0	\$0	\$46,422
12/1/2020	\$14,878	\$31,346	\$0	\$0	\$46,225
1/1/2021	\$14,678	\$31,346	\$0	\$0	\$46,025
2/1/2021	\$14,475	\$31,346	\$0	\$0	\$45,821
3/1/2021	\$14,281	\$31,346	\$0	\$0	\$45,628
4/1/2021	\$14,098	\$31,346	\$0	\$0	\$45,444
5/1/2021	\$13,913	\$31,346	\$0	\$0	\$45,259
6/1/2021	\$13,726	\$31,346	\$0	\$0	\$45,072
7/1/2021	\$13,537	\$31,346	\$0	\$0	\$44,884
8/1/2021	\$13,348	\$31,346	\$0	\$0	\$44,694
9/1/2021	\$13,157	\$31,346	\$0	\$0	\$44,504
10/1/2021	\$12,980	\$31,346	\$0	\$0	\$44,326
11/1/2021	\$12,817	\$31,346	\$0	\$0	\$44,163
12/1/2021	\$12,654	\$31,346	\$0	\$0	\$44,000
1/1/2022	\$12,490	\$31,346	\$0	\$0	\$43,837
2/1/2022	\$12,327	\$31,346	\$0	\$0	\$43,673
3/1/2022	\$12,165	\$31,346	\$0	\$0	\$43,511
4/1/2022	\$12,004	\$31,346	\$0	\$0	\$43,350
5/1/2022	\$11,843	\$31,346	\$0	\$0	\$43,190
6/1/2022	\$11,683	\$31,346	\$0	\$0	\$43,029
7/1/2022	\$11,522	\$31,346	\$0	\$0	\$42,868
8/1/2022	\$11,361	\$31,346	\$0	\$0	\$42,708
9/1/2022	\$11,200	\$31,346	\$0	\$0	\$42,547
10/1/2022	\$11,040	\$31,346	\$0	\$0	\$42,386
11/1/2022	\$10,879	\$31,346	\$0	\$0	\$42,226
12/1/2022	\$10,718	\$31,346	\$0	\$0	\$42,065
1/1/2023	\$10,558	\$31,346	\$0	\$0	\$41,904
2/1/2023	\$10,397	\$31,346	\$0	\$0	\$41,743
3/1/2023	\$10,236	\$31,346	\$0	\$0	\$41,583
4/1/2023	\$10,076	\$31,346	\$0	\$0	\$41,422

The Narragansett Electric Company d/b/a National Grid  
New Initiative  
Gas Business Enablement  
Service Company Rent Expense and Operating Expense  
Allocated to Narragansett Electric Company

	(a)	(b)	(c)	(d)	
	<b>TOTAL</b>				
	<b>RI Elec Return</b>	<b>RI Elec Depr</b>	<b>RI Elec Opex</b>	<b>RI Elec RTB</b>	<b>Totals</b>
5/1/2023	\$9,915	\$31,346	\$0	\$0	\$41,261
6/1/2023	\$9,754	\$31,346	\$0	\$0	\$41,101
7/1/2023	\$9,594	\$31,346	\$0	\$0	\$40,940
8/1/2023	\$9,433	\$31,346	\$0	\$0	\$40,779
9/1/2023	\$9,272	\$31,346	\$0	\$0	\$40,619
10/1/2023	\$9,111	\$31,346	\$0	\$0	\$40,458
11/1/2023	\$8,951	\$31,346	\$0	\$0	\$40,297
12/1/2023	\$8,790	\$31,346	\$0	\$0	\$40,137
1/1/2024	\$8,629	\$31,346	\$0	\$0	\$39,976
2/1/2024	\$8,469	\$31,346	\$0	\$0	\$39,815
3/1/2024	\$8,308	\$31,346	\$0	\$0	\$39,654
4/1/2024	\$8,147	\$31,346	\$0	\$0	\$39,494
5/1/2024	\$7,987	\$31,346	\$0	\$0	\$39,333
6/1/2024	\$7,826	\$31,346	\$0	\$0	\$39,172
7/1/2024	\$7,665	\$31,346	\$0	\$0	\$39,012
8/1/2024	\$7,505	\$31,346	\$0	\$0	\$38,851
9/1/2024	\$7,344	\$31,346	\$0	\$0	\$38,690
10/1/2024	\$7,183	\$31,346	\$0	\$0	\$38,530
11/1/2024	\$7,023	\$31,346	\$0	\$0	\$38,369
12/1/2024	\$6,862	\$31,346	\$0	\$0	\$38,208
1/1/2025	\$6,701	\$31,346	\$0	\$0	\$38,048
2/1/2025	\$6,540	\$31,346	\$0	\$0	\$37,887
3/1/2025	\$6,380	\$31,346	\$0	\$0	\$37,726
4/1/2025	\$6,219	\$31,346	\$0	\$0	\$37,566
5/1/2025	\$6,058	\$31,346	\$0	\$0	\$37,405
6/1/2025	\$5,898	\$31,346	\$0	\$0	\$37,244
7/1/2025	\$5,737	\$31,346	\$0	\$0	\$37,083
8/1/2025	\$5,576	\$31,346	\$0	\$0	\$36,923
9/1/2025	\$5,416	\$31,346	\$0	\$0	\$36,762
10/1/2025	\$5,255	\$31,346	\$0	\$0	\$36,601
11/1/2025	\$5,094	\$31,346	\$0	\$0	\$36,441
12/1/2025	\$4,934	\$31,346	\$0	\$0	\$36,280
1/1/2026	\$4,773	\$31,346	\$0	\$0	\$36,119

The Narragansett Electric Company d/b/a National Grid  
New Initiative  
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Service Company Rent Expense and Operating Expense  
Allocated to Narragansett Electric Company

	(a)	(b)	(c)	(d)	
	<b>TOTAL</b>				
	<b>RI Elec Return</b>	<b>RI Elec Depr</b>	<b>RI Elec Opex</b>	<b>RI Elec RTB</b>	<b>Totals</b>
2/1/2026	\$4,612	\$31,346	\$0	\$0	\$35,959
3/1/2026	\$4,451	\$31,346	\$0	\$0	\$35,798
4/1/2026	\$4,291	\$31,346	\$0	\$0	\$35,637
5/1/2026	\$4,130	\$31,346	\$0	\$0	\$35,477
6/1/2026	\$3,969	\$31,346	\$0	\$0	\$35,316
7/1/2026	\$3,809	\$31,346	\$0	\$0	\$35,155
8/1/2026	\$3,648	\$31,346	\$0	\$0	\$34,994
9/1/2026	\$3,487	\$31,346	\$0	\$0	\$34,834
10/1/2026	\$3,327	\$31,346	\$0	\$0	\$34,673
11/1/2026	\$3,166	\$31,346	\$0	\$0	\$34,512
12/1/2026	\$3,005	\$31,346	\$0	\$0	\$34,352
1/1/2027	\$2,845	\$31,346	\$0	\$0	\$34,191
2/1/2027	\$2,684	\$31,346	\$0	\$0	\$34,030
3/1/2027	\$2,523	\$31,346	\$0	\$0	\$33,870
4/1/2027	\$2,363	\$31,346	\$0	\$0	\$33,709
5/1/2027	\$2,202	\$31,346	\$0	\$0	\$33,548
6/1/2027	\$2,041	\$31,346	\$0	\$0	\$33,388
7/1/2027	\$1,880	\$31,346	\$0	\$0	\$33,227
8/1/2027	\$1,720	\$31,346	\$0	\$0	\$33,066
9/1/2027	\$1,559	\$31,346	\$0	\$0	\$32,906
10/1/2027	\$1,398	\$31,346	\$0	\$0	\$32,745
11/1/2027	\$1,238	\$31,346	\$0	\$0	\$32,584
12/1/2027	\$1,077	\$31,346	\$0	\$0	\$32,423
1/1/2028	\$916	\$31,346	\$0	\$0	\$32,263
2/1/2028	\$756	\$31,346	\$0	\$0	\$32,102
3/1/2028	\$630	\$17,811	\$0	\$0	\$18,440
4/1/2028	\$538	\$17,811	\$0	\$0	\$18,349
5/1/2028	\$447	\$17,811	\$0	\$0	\$18,258
6/1/2028	\$356	\$17,811	\$0	\$0	\$18,166
7/1/2028	\$264	\$17,811	\$0	\$0	\$18,075
8/1/2028	\$175	\$17,266	\$0	\$0	\$17,440
9/1/2028	\$86	\$17,266	\$0	\$0	\$17,352
10/1/2028	\$38	\$1,629	\$0	\$0	\$1,666

The Narragansett Electric Company d/b/a National Grid  
New Initiative  
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Service Company Rent Expense and Operating Expense  
Allocated to Narragansett Electric Company

	(a)	(b)	(c)	(d)	
	<b>TOTAL</b>				
	<b>RI Elec Return</b>	<b>RI Elec Depr</b>	<b>RI Elec Opex</b>	<b>RI Elec RTB</b>	<b>Totals</b>
11/1/2028	\$29	\$1,629	\$0	\$0	\$1,658
12/1/2028	\$21	\$1,629	\$0	\$0	\$1,650
1/1/2029	\$13	\$1,629	\$0	\$0	\$1,641
2/1/2029	\$4	\$1,629	\$0	\$0	\$1,633
3/1/2029	\$0	\$0	\$0	\$0	\$0
	<b>1,173,572</b>	<b>3,761,573</b>	-	-	<b>4,935,145</b>