

August 4, 2020

VIA ELECTRONIC MAIL

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

**RE: Docket 4979 - National Grid Electric and Gas Energy Efficiency Programs
2020 Quarterly Reports – First Quarter**

Dear Ms. Massaro:

Enclosed please find one (1) copy of National Grid's¹ quarterly report for the first quarter of 2020 in the above-referenced docket.² These reports include the quarterly results for the Company's natural gas and electric energy efficiency programs and a summary of each program's progress. The Company has provided copies of this report to the parties in this docket.

Thank you for your attention to this matter. If you have any questions, please contact me at 401-784-7263.

Sincerely,



Andrew S. Marcaccio

Enclosures


cc: Docket 4979 Service List
Jon Hagopian, Esq.
John Bell, Division

¹ The Narragansett Electric Company d/b/a National Grid (National Grid or the Company).

² Per practice during the COVID-19 emergency period, the Company is providing a PDF version of the response to the PUC's data request referenced above. The Company will provide the Commission Clerk with a hard copy and, if needed, additional hard copies of this response at a later date

Certificate of Service

I hereby certify that a copy of the cover letter and any materials accompanying this certificate was electronically transmitted to the individuals listed below.



Joanne M. Scanlon

August 4, 2020
Date

**Docket No. 4979 - National Grid – 2020 Energy Efficiency Plan (EEP)
Service list updated 1/2/2020**

Name/Address	E-mail Distribution List	Phone
National Grid Raquel Webster, Esq. National Grid 280 Melrose St. Providence, RI 02907 Leticia C. Pimentel, Esq. Robinson & Cole LLP One Financial Plaza, 14th Floor Providence, RI 02903	Raquel.webster@nationalgrid.com;	781-907-2121
	Joanne.scanlon@nationalgrid.com;	
	Celia.obrien@nationalgrid.com;	
	Matthew.Chase@nationalgrid.com;	
	Timothy.Roughan@nationalgrid.com;	
	John.richards@nationalgrid.com;	
	Christopher.porter@nationalgrid.com;	
	Matthew.ray2@nationalgrid.com;	
	Kate.grant2@nationalgrid.com;	
	LPimentel@rc.com;	
Division of Public Utilities and Carriers Jon Hagopian, Esq.	Jon.hagopian@dpuc.ri.gov;	401-784-4775
	Jonathan.Schrag@dpuc.ri.gov;	
	john.bell@dpuc.ri.gov;	
	Ronald.Gerwatowski@dpuc.ri.gov;	
	Joel.munoz@dpuc.ri.gov;	
Tim Woolf Jennifer Kallay Synapse Energy Economics 22 Pearl Street Cambridge, MA 02139	twoolf@synapse-energy.com;	
	jkallay@synapse-energy.com;	
RI EERMC Marisa Desautel, Esq. Office of Marisa Desautel, LLC 55 Pine St. Providence, RI 02903 Mike Guerard, Optimal Energy	marisa@desautelesq.com;	401-477-0023
	guerard@optenergy.com;	
	ross@optenergy.com;	
	kravatz@optenergy.com;	

Acadia Center Erika Niedowski 31 Milk Street Suite 501 Boston, MA 02108	ENiedowski@acadiacenter.org ;	617-742-0054 Ext. 104
Office of Energy Resources (OER) Andrew Marcaccio, Esq. Daniel Majcher, Esq. Dept. of Administration Division of Legal Services One Capitol Hill, 4 th Floor Providence, RI 02908 Carol Grant, Commissioner	Andrew.Marcaccio@doa.ri.gov ; daniel.majcher@doa.ri.gov ; Nancy.Russolino@doa.ri.gov ; Carol.grant@energy.ri.gov ; Christopher.Kearns@energy.ri.gov ; Nicholas.Ucci@energy.ri.gov ; Becca.Trietch@energy.ri.gov ; Carrie.Gill@energy.ri.gov ; Nathan.Cleveland@energy.ri.gov ;	401-222-8880
Green Energy Consumers Alliance Larry Chretien, Executive Director Kai Salem	Larry@massenergy.org ; kai@greenenergyconsumers.org ;	
TEC-RI Doug Gablinske, Executive Director The Energy Council of RI	doug@tecri.org ;	
Original & 9 copies file w/: Luly E. Massaro, Commission Clerk John Harrington, Commission Counsel Public Utilities Commission 89 Jefferson Blvd. Warwick, RI 02888	Luly.massaro@puc.ri.gov ; Cynthia.WilsonFrias@puc.ri.gov ; John.Harrington@puc.ri.gov ; Alan.nault@puc.ri.gov ; Todd.bianco@puc.ri.gov ; Sharon.ColbyCamara@puc.ri.gov ; Margaret.hogan@puc.ri.gov ;	401-780-2107
Frederick Sneesby Dept. of Human Services	Frederick.sneesby@dhs.ri.gov ;	
Chris Vitale, Esq., RI Infrastructure Bank	cvitale@hvlawltd.com ;	

Rhode Island Energy Efficiency

First Quarter 2020 | National Grid

July 16, 2020

Overview

In the first quarter of 2020, National Grid's energy efficiency programs continued to deliver energy savings for Rhode Island customers by achieving 29,593 annual MWh of electric savings (16.6% of the annual goal) and 45,776 annual MMBtu of natural gas savings (10.2% of the annual goal) while also facing the challenges posed by the global COVID-19 pandemic. On March 17, 2020, out of an abundance of safety and caution and concern for the health and well-being of the Company's vendors and customers, the Company made the decision to temporarily suspend the contracted vendor delivery of on-site energy efficiency services to residential and commercial customers. During this suspension, the Company has continued to work with stakeholders and health and safety experts to address strategies to mitigate the negative impact that COVID-19 will have on the contractor community. Some examples of these strategies are discussed include:

- **Energywise Single Family:** Virtual home energy assessments were developed and offered to customers beginning in early April to allow for continued participation and to help build a pipeline to support contractors as work returns to pre-COVID-19 status.
- **Residential New Construction:** Technical support, education and training through remote means for all new and ongoing projects is taking place to keep projects engaged in the program and to support contracts with maintaining and building skills to engage upon the lifting of the suspension.
- **EnergyStar HVAC:** COVID-19 restrictions resulted in cancelling seven upcoming classroom sessions. In response to these on-site limitations, the program successfully transitioned to offering online webinars as an alternative. The first of many virtual trainings was held on March 27th. And the second quarter will show progression with this method of training.
- **EnergyStar Lighting and Products:** The marketplace continued to be available to customers. For the EnergyStar Product program, the refrigerator recycling program also continued if the customer was able to move the unit to an area outside of their home where contactless pick-up could be arranged.
- **Small Business Program:** As of 5/15 two virtual audits had been performed by the program's vendor for customers whose audits were delayed by COVID-19.

Additionally, there were several highlights that occurred in the first quarter prior to the onset of the pandemic. These include:

- **Zero Energy Homes and Buildings** – The Sheridan Small Homes Project was completed in Providence. This was 5-unit condo project of affordable, zero-energy homes being developed by ONE Neighborhood Builders. In addition, on Westminster Street in Providence, a 7-unit multifamily over a restaurant is aiming for Passive House certification. The project team

purchased blower door equipment and training was provided through the Zero Energy pilot so the team can perform air leakage testing throughout the construction process.

- **Income Eligible Single Family Services** –A new Audit process to reduce paperwork was implemented which eliminates redundant data entry. The program also saw a new Auditor Evaluation process rolled out in the first quarter and standardized KPI's were developed to ensure apartment comparisons between agencies.

2020 Program & Initiative Updates

Residential New Construction (RNC)

The Residential New Construction (RNC) program achieved 146 Annual MWh of electric savings (16.8% of the annual goal) and 179 Annual MMBtu of gas savings (4.1% of the annual goal) for the first quarter of 2020. The program enrolled 55 customer residences in the first quarter and completed 136 customer residences.

Of the customer residences completed in the first quarter 71 were market rate and 65 were for affordable housing. In addition, 106 customer residences (78%) used electric heat and just 14 customer residences (10%) had gas heat, demonstrating the continued increase in the percentage of new construction homes with electric heat (heat pump) vs gas for both market rate and affordable housing.

In addition, the Sheridan Small Homes Project was completed in Providence. This was 5-unit condo project of affordable, zero-energy homes being developed by ONE Neighborhood Builders. Midpoint blower door tests show the first building is on track to meet PHIUS + 2018 air leakage requirements.



Pictured above: Sheridan Small Homes, Under Construction

Westminster Street, Providence a 7-unit multifamily over a restaurant is aiming for Passive House certification. The project team purchased blower door equipment, and training was also provided through the Zero Energy pilot so the team can perform air leakage testing throughout the construction process.



Pictured above: Westminster Street Multifamily Passive House, Under Construction

Challenges and Responses

Construction is ongoing as it was deemed an essential business by the state of Rhode Island, however, field verification services provided by RNC Program HERS Raters were suspended. Without field verification, projects are ineligible for RNC rebates - the Company would however expect that these rebates and associated energy savings will be realized by customers this year as the restoration of on-premise energy efficiency services allows for these inspections to be reinstated.

Technical support, education and training through remote means for all new and ongoing projects is being continued to keep projects engaged in the RNC Program.

Income Eligible Services (IES)

“The energy specialist was outstanding! I am low income senior who lives alone. I am so grateful for this program. Thank you!” - Paula from Kingstown

The National Grid Income Eligible Services program achieved 657 annual MWh of electric savings (17.5% of the annual goal) and 987 annual MMBtu of gas savings (9.8% of the annual goal) for the first quarter of 2020.

During the first quarter, a new Audit process to reduce paperwork was implemented. This process eliminates redundant data entry. In addition, a new Auditor Evaluation process was rolled out in the first quarter. Standardized KPI's were developed to ensure apartment comparisons between agencies.

Challenges

The DOE Corrective Action Plan has created a significant distraction during what is usually a very productive time for the National Grid IES program, negatively impacting production. Ensuring equitable distribution of resources in the future is critical to ensuring that the IES program meets its goals. In addition, COVID-19 has adversely impacted production at the end of the quarter. Loss of Community Action Program (CAP) staff will be a concern for the remainder of the year.

EnergyWise Single Family

EnergyWise had a strong start to 2020, achieving 2,104 annual MWh of electric savings (34.6% of the annual goal) and 7,513 annual MMBtu of gas savings (29.3% of the annual goal) and completing 3,100 audits and 1,139 weatherization jobs.

Challenges and Responses

COVID 19 resulted in a temporary suspension of all on site work as of mid-March. Virtual home energy assessments were developed and offered to customers beginning in early April.

Through a phone call or video meeting with an energy specialist, a customer can still receive an Energy Action Plan that indicates opportunities for an improved building envelope with air sealing and weatherization upgrades. The energy savings measures usually installed during the first customer home visit are identified during the call and mailed to the customer for self-installation or installation by the contractor when on premise work is available.

Insulation incentives have been increased to 100% of the project cost up to \$15,000 to ensure a strong pipeline of insulation work is in place for insulation contractors when the state allows this type of work and customers are receptive to contractors at their home.

Summary of relevant KPI's

The Company has also developed online training opportunities for organizations that support EnergyWise, Multifamily, and Income Eligible Services. These no-cost, online classes allow contractors to either obtain or maintain the credentials needed to ensure safe and energy efficient upgrades are available to RI customers. Additional trainings will be added based on contractor feedback.

The online trainings were procured by a regional consortium of energy efficiency program administrators serving the states of RI, CT, MA, and NH.

This same consortium has also procured and coordinated, through a third-party environmental health and safety engineering firm, the development of onsite work and safety protocols, training content development, and delivery and compliance processes that will allow for the safe restoration of contracted vendor on premise energy efficiency services. As of the date of submission of this quarterly report, the staged restoration of contracted vendor on premise energy efficiency services has begun, subject to the above protocols and compliance processes. The same states have also hired CLEAResult to develop work protocols, safety protocols, training, and QA that will allow for on premise work when the states indicate that this work can proceed. CLEAResult in turn has engaged Environmental Health and Engineering to ensure that all workplace health and safety procedures are identified and meet CDC and other environmental health recommendations are will conduct trainings for contractors and QA inspectors.

Customer Highlights

<https://www.wpri.com/health/coronavirus/attleboro-contracting-company-donates-thousands-of-face-masks-to-area-hospitals/>

This is one of the independent insulation contractors working in the program. Donated face masks to a RI Hospital. Training for proper use of PPE will also be offered in mid-May.

EnergyWise Multifamily, Income Eligible Multifamily, C&I Multifamily

The EnergyWise Multifamily program achieved 302 annual MWh of electric savings (10.8% of the annual goal) and 1,856 annual MMBTU of gas savings (12.7% of the annual goal) in 2020. The Income Eligible Multifamily program achieved 17 annual MWh of electric savings (0.7% of the annual goal) and 578 MMBTU of annual gas savings (2.4% of the annual goal) in 2020. The C&I Multifamily program achieved 96 MMBTU of annual gas savings (0.9% of the annual goal) in 2020. Similar to other on-site energy efficiency programs, COVID put a stop to all on site work as of mid-March.

Multifamily projects began in the first quarter. Major highlights of these projects include air sealing, floor insulation over crawlspaces, showerheads, aerators, programmable thermostats, pipe wrap, and smart strips.

ENERGYSTAR® HVAC (Heating and Cooling)

Highlights

The ENERGYSTAR® HVAC (Heating and Cooling) program achieved 336 annual MWh of electric savings (15.1% of the annual goal) and 5,876 annual MMBtu of gas savings (19.6% of the annual goal) for the first quarter of 2020.

The Rhode Island Heating & Cooling program transitioned to one consolidated rebate fulfillment center, which now includes the enhanced ASHP offerings, to improve customer experience and reduce confusion.

The Annual RI Trade Ally Heating and Cooling Meeting was held in late February at the Providence Marriot downtown. This year's attendance saw a slight uptick in attendance compared to last year. A total of 113 contractors, distributors, OEM and factory reps and other HVAC stakeholders were attended.

HVAC Check Training: RI training season began March 5th, one week before COVID-19 restrictions impacted the region. Two (2) HVAC Check trainings were successfully held at local RI distributor locations.




Annual RI Trade Ally Heating and Cooling Meeting, February 2020, Providence Marriot downtown

Challenges and Responses

HVAC Check Training: COVID restrictions resulted in cancelling seven upcoming classroom sessions. In response to these on-site limitations, the program successfully transitioned to offering online webinars as an alternative. The first of many virtual trainings was held on March 27th. And the second quarter will show progression with this method of training.

In December 2019, the ASHP program for electrification of oil/propane heating system was discontinued. This discontinuation affected the trade ally network as they anticipated this being a continued offering in 2020. National Grid and its lead vendor worked closely with trade allies to collect information regarding 2019 installations that were completed within the allowed Program time period to ensure rebates were filed in a timely manner for processing.

Easy work also pays off.



Earn incentives and attract more customers as an HVAC Check contractor.

HVAC Check training focuses on two testing procedures:

- Air Flow and Charge Check (AC Check) for central A/C and central heat pumps
- Mini Split Check (MS Check) for single and multi-head mini split heat pumps.

As a trained and approved HVAC Check contractor, you'll earn incentives for verifying proper refrigerant charge, ensuring maximum efficiency, comfort and savings for your customers, and reducing call backs due to system issues. By partnering with us, you can attract more customers with exclusive offers like our generous heat pump rebates for customers displacing electric resistance heat.


With a training process that takes as little as four hours, becoming an HVAC Check contractor is as simple as it is rewarding.


Upcoming HVAC Check training classes:

Click the desired training location link to register.

Date	Location	Registration Link

For more information call 844-615-8315 or email hvac@cleareault.com





HVAC Check Training Flyer

ENERGYSTAR® Lighting and Residential Consumer Products

Highlights

ENERGYSTAR® Lighting achieved 8,176 Annual MWh of electric savings (21.5% of goal) and 1,341 Annual kW of electric demand (21.6% of the annual goal) for the first quarter of 2020.

Residential Consumer Products achieved 437 Annual MWh of electric savings (9.2% of goal) and 91 Annual kW of electric demand (12.8% of the annual goal) for the first quarter of 2020.

Challenges and Responses

COVID Response: The marketplace continued to be available to customers.

The refrigerator recycling program also continued if the customer was able to move the unit to an unoccupied space or outside their home where contactless pick-up could be arranged.

Summary of relevant KPI's

Refrigerator incentives will be increased to \$125 to encourage program adoption when in-home pick-ups are allowed.

Home Energy Reports (HER)

The Home Energy Reports electric program achieved 7,497 annual MWh of electric savings (32.3% of the annual goal) and the gas program achieved 24,890 annual MMBtu of gas savings (21.6% of the annual goal) for the first quarter of 2020.

Highlights

In the first quarter, Home Energy Reports promoted heat pumps for the replacement of electric resistance heating.

Relevant KPIs

COVID 19 response: Removed the neighbor comparison on Home Energy Reports and focused on tips for saving energy while at home.

Challenges and Responses

Gas savings are slightly behind after the winter. The Home Energy Reports program will offer additional reports after the heating season to keep energy use top-of-mind for customers.

Code Compliance Enhancement Initiative (CCEI)

Workforce Development

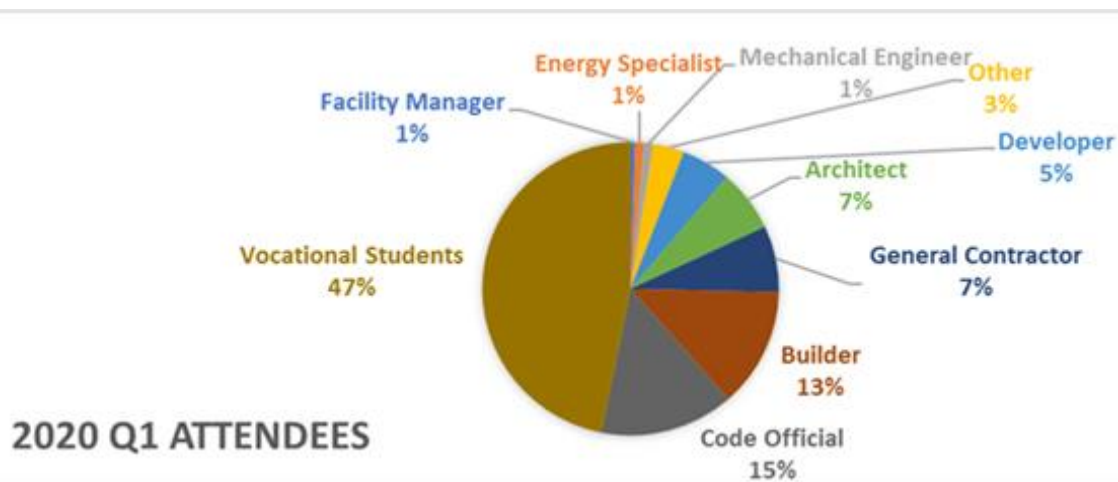
CCEI trainings on the energy code, building best practices, and verification testing have been integrated into student curricula as part of RIBA's Pre-Apprenticeship Certification Program and the Rhode Island Master Plumber & Mechanical Association's (RIMPMA) Apprentice School Program. One training was delivered as part of each of these efforts this quarter with 68 total attendees.



RIMPMA Apprentice School Training (St. Paul School, Cranston)

Industry Outreach

CCEI expanded its partnership with the Rhode Island Builders Association (RIBA) to deliver a monthly training as part of its newly developed Contractor Development Program.



Challenges and Responses

Seven training events that had been scheduled for March and early April were either postponed, converted to virtual delivery or canceled. To continue program activities during this uncertain time, CCEI developed a suite of shortened trainings designed to be delivered via webinar that will be rolled out in the second quarter. CCEI is currently pursuing eligibility of these trainings for contractor continuing education credits.

Relevant KPIs

Six training events that engaged 205 industry stakeholders were held during this quarter. All six of these events were focused on residential construction.

Large Commercial New Construction

The Large Commercial New Construction program achieved 710 Annual MWh of electric savings (7.2% of the annual goal) and 2,130 Annual MMBtu of gas savings (4.7% of the annual goal) for the first quarter of 2020.

A RI based supermarket chain completed construction on a brand-new location in Warwick. The project was comprehensive with the following energy saving measures being installed: doors on cases, night covers, HVAC and DHW Heat reclaim, floating head and suction on medium temperature and low temperature rack systems, exhaust fan VFDs on the main kitchen hoods and a Munters roof top unit. The project saved 174,893 kWh and 21,522 therms.

Challenges and Responses

Decision making has slowed dramatically for all but the largest customers in this segment due to COVID-19.



CaptiveAire hood – Main kitchen

Large Commercial Retrofit

In the first quarter of 2020, the Large Commercial Retrofit program achieved 7,449 annual MWh of electric savings (10.2% of the annual goal) and 1,228 Annual MMBtu of gas savings (0.8% of the annual goal).

Project Highlights:

EnergySmart Grocer

An east coast supermarket chain conducted an upgrade of the floating head and suction pressure controls for their 6 locations in Rhode Island: Cranston, Woonsocket, Warwick, Johnston, Pawtucket, and Providence. The projects saved a total of 240,536 kwh.

Challenges and Responses

Decision making has slowed dramatically for all but the largest customers in this segment due to COVID-19.

Small Business Direct Install

The Small Business Direct Install program for the first quarter of 2020, achieved 1,762 MWh of electric savings (15.3% of the annual goal) and 442 Annual MMBtu of gas savings (17.5% of the annual goal).

Highlights

In Cranston, RISE served the customer's retail plaza common areas and tenanted spaces with a mix of various LED lighting upgrades and 10, WiFi thermostats. This project captured 20,000 annual kWh and 660 annual therms. The engagement with this customer is part of RISE's efforts to work closely with property managers to support the delivery of goal for RI in 2020. Creating close relationships with property managers allows RISE to tap into a larger portfolio of properties and become the go-to resource for their common area and tenanted space energy efficiency needs.

Challenges and Responses

As of 5/15 two virtual audits had been performed by the program's vendor for customers whose audits were delayed by COVID-19.



Cranston, RI – Retail Plaza

Evaluation

2020 Residential Retrofit and Behavioral Evaluation

A vendor has been procured and a meeting was held on March 18th to formally kick off these studies. This evaluation effort includes impact and process evaluation of three retrofit programs (i.e. EnergyWise Single Family, EnergyWise Multifamily and Income Eligible Multifamily programs) and an impact evaluation of the Home Energy Reports program.

A few C&I/cross-cutting evaluation studies were completed. Key findings are provided below:

Rhode Island Piggybacking Diagnostic Study

This study examined the Rhode Island evaluation practice of leveraging evaluation results from Massachusetts, or “piggybacking.” Historically, this has been a common method of achieving cost savings in RI and has been accepted due to the similarity of program designs and regulations in the two states. This study conducted a formal review of the practice and suggested evidence-based recommendations for when and how to piggyback across the various energy efficiency programs offered in RI.

Impact Evaluation of PY2016 Custom Electric Installations

Through site visits, metering, and analysis, this study determined that custom electric RI projects completed in 2016 had a realization rate of 99.9% for lighting projects and 69.3% for non-lighting projects. This study included sites from both Rhode Island and Massachusetts across all electric end uses, excluding CHP and Comprehensive Design. When combined with results for MA sites installed in 2016, the realization rates were 99.8% for lighting projects and 65.5% for

non-lighting projects. These realization rates were to be applied to custom electric projects completed beginning in 2020.

Rhode Island C&I Market Characterization Data Collection Study

This study was conducted to help the RI Office of Energy Resources and National Grid better understand the state's existing C&I building and equipment stock, support an efficiency potential study and lighting baseline determination, and otherwise identify ways to expand RI statewide energy efficiency initiatives. Study produced measure saturations that were used in the recently completed RI Technical Potential Study. A key finding is lower linear LED penetration in RI than MA.

Impact Evaluation of PY2017 Custom Gas Installations

Through site visits, metering, and analysis, this study determined that custom gas projects completed in RI in 2017 had a realization rate of 92%. When combined with results from RI sites projects from 2016 they produced a combined realization rate of 85%. The results of this study will be applied to custom gas projects completed beginning in 2021.

Upcoming Events

Highlights

COVID 19 Protective Practices for Weatherization Work

A series of trainings were delivered via webinar in order to educate impacted vendors about processes and protocols for the safe delivery of on-premise energy efficiency services in the COVID-19 environment. These trainings were recorded and remain both available and the condition of contracted vendor returns to delivering field-based services.

Rhode Island Pilots, Demonstrations and Assessments

<u>Pathway to Zero Buildings - Pilot - C&I</u>	Date	3/2/2020
	Stage	Demonstration stage- project recruitment led by New Construction team.
	Recent Activity	Planning for the next ZNE Forum in progress. Website design in progress.
	Next steps	Next ZNE Forum scheduled for April 8th.
<u>Performance Based Procurement - Demonstration - C&I</u>	Date	2/21/2020
	Stage	Demonstration stage- project recruitment led by New Construction team.
	Recent Activity	New Construction team meeting with prospective project design team mid-Q2 2020
	Next steps	If project does not go forward consider changing or stopping demonstration
<u>Underutilized EE on MPT systems - Demonstration - C&I</u>	Date	2/24/2020
	Stage	Concept stage
	Recent Activity	Initial research questions formed, focusing on determining savings and the best program pathway for a product offering.
	Next steps or	Next steps will be to determine appropriate vendor to complete demonstration research, including installations at 3 customer sites
<u>SEM - Demonstration - C&I</u>	Date	2/24/2020
	Stage	Demonstration stage
	Recent Activity	On February 19th, the Rhode Island SEM/CEI cohort held a workshop at Save the Bay. The SEM/CEI participants presented on their energy projects and spoke to how they are working with Cascade Energy to discover O&M based energy savings.
	Next steps	The SEM/CEI participants will claim gas savings in March.
<u>HVAC Lighting Controls Plus -</u>	Date	2/25/2020
	Stage	Concept stage

<u>Demonstration - C&I</u>	Recent Activity	Some inhouse research performed to investigate how likely existing performance lighting customers are to also do HVAC projects. Some initial discussions with New Construction staff to discuss how a Networked Lighting plus HVAC offering would fit within the whole NC portfolio.
	Next steps	Slipstream updating proposed scope of work for market research and customer installations.
<u>Kitchen Exhaust - Demonstration - C&I</u>	Date	2/25/2020
	Stage	Plan stage
	Recent Activity	Preliminary review of kitchen exhaust measures already in the custom programs to review what types of energy strategies are already used and how much savings they produce. The Company has also collected a few kitchen exhaust projects that have been evaluated through the MA and RI evaluation frameworks, which can be reviewed and findings incorporated as appropriate.
	Next steps	Slipstream updating proposed scope of work. Will include energy modeling of all proposed measures and customer installations.
<u>Air Absorption Cleaning - Demonstration - C&I</u>	Date	2/24/2020
	Stage	Plan stage
	Recent Activity	Discussions with Slipstream to understand main research question is around air quality and customer satisfaction with the product.
	Next steps	Slipstream updating proposed scope of work. A couple of projects have been done in MA and will be provided for review and customer interviews as part of revisited scope.
<u>Small Business Electric Heat Pumps - Demonstration - C&I</u>	Date	2/21/2020
	Stage	Concept stage
	Recent Activity	Reviewing previous demonstration activity and trying to synthesize with work underway in MA
	Next steps	Likely synching up with MA simple HP system rebate work
<u>Gas DR - Pilot - C&I</u>	Date	3/3/2020
	Stage	Demonstration stage. Recruitment for additional customers in progress
	Recent Activity	Customer incentive payments for 2019-2020 winter in progress
	Next steps	Continue recruitment
	Date	2/24/2020

<u>Gas HPs - Demonstration - C&I</u>	Stage	Concept Stage
	Recent Activity	Initial review of industry white paper and search of ongoing National Grid projects to identify that there is a single NY gas HP project that's in progress
	Next steps	Next steps will be to articulate research questions around product benefits and barriers, particularly when compared to electric options.
<u>Pathway to Zero Buildings - Resi</u>	Date	3/3/2020
	Stage	100 units of ZER/Passive House construction in planning, design, development or construction
	Recent Activity	Planning for the next ZNE Forum in progress (Mtg date April 8). Website design in progress.
	Next steps	Identify elements of Pathway to Zero that can be incorporated into RNC.
<u>Home Energy Score Evaluation - Residential</u>	Date	3/2/2020
	Stage	This evaluation will be included in the scope of the EnergyWise Impact and Process Evaluation. The study is currently being procured through a competitive bidding process.
	Recent Activity	Six proposals have been received and reviewed. EM&V is working with procurement team to finalize the selection process.
	Next steps	National Grid to negotiate and finalize the contract with selected supplier.

NATIONAL GRID ENERGY EFFICIENCY PROGRAMS IN RHODE ISLAND

Table 1: Summary of Electric 2020 Target and Preliminary 1st Quarter Results

ELECTRIC PROGRAMS Sector and Program	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	
	Demand Reduction (Annual)			Energy Savings (Annual MWh)			Customer Participation			Expenses (\$ 000)			Energy Savings (Lifetime MWh)			Planned	Year to		
	Target	Year To Date	Pct Achieved	Target	Year To Date	Pct Achieved	Target	Year To Date	Pct Achieved	Budget	Year To Date	Pct Achieved	Planned	Year to Date	Pct Achieved	\$/kWh	Year to Date		
Commercial and Industrial																			
Large Commercial New Construction	1,183	104	8.8%	9,828	710	7.2%	108	15	13.6%	\$ 5,335.7	402.4	7.5%	147,913	10,428	7.1%	\$ 0.036	\$ 0.039		
Large Commercial Retrofit	14,933	1,074	7.2%	72,871	7,449	10.2%	2,669	84	3.1%	\$ 23,801.3	2,551.8	10.7%	823,828	94,824	11.5%	\$ 0.029	\$ 0.027		
Small Business Direct Install	1,347	295	21.9%	11,500	1,762	15.3%	693	150	21.6%	\$ 7,568.6	1,188.2	15.7%	126,066	21,291	16.9%	\$ 0.060	\$ 0.056		
Commercial Connected Solutions										\$ 2,078.5	26.0	1.3%							
Commercial Pilots										\$ 106.3	22.0	20.7%							
Community Based Initiatives - C&I										\$ 66.1	0.6	0.9%							
Financing										\$ 5,216.7	0.0	0.0%							
SUBTOTAL	17,463	1,473	8.4%	94,198	9,921	10.5%	3,470	248	7.2%	\$ 44,173.1	4,191.0	9.5%	1,097,807	126,543	11.5%	\$ 0.040	\$ 0.033		
Income Eligible Residential																			
Single Family - Income Eligible Services	566	118	20.8%	3,755	657	17.5%	3,300	1,082	32.8%	\$ 12,846.1	1,940.3	15.1%	45,723	8,168	17.9%	\$ 0.281	\$ 0.238		
Income Eligible Multifamily	155	1	0.7%	2,392	17	0.7%	4,800	441	9.2%	\$ 3,549.0	55.8	1.6%	31,899	171	0.5%	\$ 0.111	\$ 0.327		
SUBTOTAL	721	119	16.5%	6,147	674	11.0%	8,100	1,523	18.8%	\$ 16,395.1	1,996.0	12.2%	77,623	8,338	10.7%	\$ 0.211	\$ 0.239		
Non-income Eligible Residential																			
Residential New Construction	74	22	29.9%	870	146	16.8%	352	126	35.8%	\$ 973.5	196.0	20.1%	15,846	2,994	18.9%	\$ 0.061	\$ 0.065		
ENERGY STAR® HVAC	94	18	19.0%	2,233	336	15.1%	1,992	722	36.2%	\$ 2,525.1	439.5	17.4%	33,961	5,692	16.8%	\$ 0.074	\$ 0.077		
EnergyWise	967	353	36.5%	6,082	2,104	34.6%	11,000	4,075	37.0%	\$ 15,692.2	3,877.6	24.7%	22,310	10,947	49.1%	\$ 0.703	\$ 0.354		
EnergyWise Multifamily	364	20	5.4%	2,793	302	10.8%	4,000	1,629	40.7%	\$ 2,804.3	176.0	6.3%	29,344	2,023	6.9%	\$ 0.096	\$ 0.087		
ENERGY STAR® Lighting	6,201	1,341	21.6%	38,093	8,176	21.5%	256,082	42,968	16.8%	\$ 15,375.8	2,059.8	13.4%	195,647	41,984	21.5%	\$ 0.079	\$ 0.049		
Residential Consumer Products	714	91	12.8%	4,768	437	9.2%	26,905	2,467	9.2%	\$ 2,199.2	190.4	8.7%	32,041	3,193	10.0%	\$ 0.069	\$ 0.060		
Home Energy Reports	3,195	1,031	32.3%	23,239	7,497	32.3%	323,248	276,136	85.4%	\$ 2,728.1	516.1	18.9%	23,239	7,497	32.3%	\$ 0.117	\$ 0.069		
Residential Connected Solutions										\$ 461.6	157.1	34.0%							
Energy Efficiency Education Programs										\$ 40.0	0.1	0.3%							
Residential Pilots										\$ 287.8	0.0	0.0%							
Community Based Initiatives - Residential										\$ 203.9	6.5	3.2%							
Comprehensive Marketing - Residential										\$ 382.3	23.9	6.2%							
SUBTOTAL	11,609	2,875	24.8%	78,077	18,998	24.3%	623,580	328,122	52.6%	\$ 43,673.8	7,643.0	17.5%	352,388	74,329	21.1%	\$ 0.124	\$ 0.103		
Regulatory																			
EERMC										\$ 893.7	192.3	21.5%							
OER										\$ 893.7	223.4	25.0%							
SUBTOTAL										\$ 1,787.4	\$ 415.7	23.3%							
TOTAL	29,793	4,467	15.0%	178,423	29,593	16.6%	635,150	329,894	51.9%	\$ 106,029.4	\$ 14,245.7	13.4%	1,527,817	209,210	13.7%	\$ 0.069	\$ 0.068		
Municipal LED Street Lights										\$ 600.0	0.0	0.0%							
System Reliability Procurement										\$ 81.2	8.2	10.1%							

NOTES

- (1)(4)(7) Targets from Docket 4979 - Attachment 5, Table E-7 (electric), Refiled December 23, 2019
 - (3) Pct Achieved is Column (2)/ Column (1).
 - (6) Pct Achieved is Column (5)/ Column (4).
 - (7) Participation was planned and is reported in 'net' terms which takes into account free-ridership and spillover.
 - (9) Pct Achieved is Column (8)/ Column (7).
 - (10) Approved Implementation Budget from Docket 4979, Attachment 5 Table E-3 (electric), Refiled December 23, 2019
 - (11) Year To Date Expenses include Implementation expenses.
 - (12) Pct Achieved is Column (11)/ Column (10).
 - (18) \$/lifetime kWh = Column (11)/Column (14)
 - (17) Planned \$/lifetime kWh from Docket 4979 - Attachment 5, Table E-5 (electric), Refiled December 23,2019 - adjusted to reflect format of quarterly report. Program Implementation Expenses/lifetime kWh.
- System Reliability Procurement targets from Docket 4979 - Attachment 5, Table E-2 (electric), not included in Expenses Total
 \$600,000 of RGGI funding was transferred from the Office of Energy Resources to National Grid for Municipal LED Street Lights in the first quarter.
 Values in quarterly reports are preliminary and subject to change. Data is finalized in the Year-End Report.

NATIONAL GRID ENERGY EFFICIENCY PROGRAMS IN RHODE ISLAND
Table 2: Summary of Gas 2020 Target and Preliminary 1st Quarter Results

GAS PROGRAMS	(1) (2) (3)			(4) (5) (6)			(7) (8) (9)			(10) (11) (12)			(13) (14)		(15)
	Energy Savings (MMBtu)			Customer Participation			Expenses (\$ 000)			Energy Savings (Lifetime MMBtu)			\$/Lifetime MMBtu		Peak Hour Gas Demand Savings (MMBtu)
Sector and Program	Target	Year To Date	Pct Achieved	Target	Year To Date	Pct Achieved	Budget	Year To Date	Pct Achieved	Planned	Year To Date	Pct Achieved	Planned	Year to Date	Year to Date
Commercial and Industrial															
Large Commercial New Construction	45,474	2,130	4.7%	83	13	15.4%	\$ 2,652.6	\$ 269.7	10.2%	776,748	34,913	4.5%	\$ 3.41	\$ 7.73	1.06
Large Commercial Retrofit	163,011	1,228	0.8%	88	5	6.1%	\$ 4,889.1	\$ (223.8)	-4.6%	1,689,045	9,838	0.6%	\$ 2.89	\$ (22.75)	0.61
Small Business Direct Install	2,523	442	17.5%	59	25	42.7%	\$ 125.0	\$ 17.8	14.3%	17,662	5,819	32.9%	\$ 7.08	\$ 3.07	0.22
Commercial & Industrial Multifamily	11,155	96	0.9%	729	1	0.1%	\$ 967.9	\$ 68.9	7.1%	155,596	1,650	1.1%	\$ 6.22	\$ 41.79	0.05
Commercial Pilots							\$ 366.0	\$ -	0.0%						
Finance							\$ 500.0	\$ -	0.0%						
Community Based Initiatives - C&I							\$ 22.0	\$ -	0.0%						
SUBTOTAL	222,164	3,896	1.8%	958	44	4.6%	\$ 9,522.7	\$ 132.7	1.4%	2,639,051	52,220	2.0%	\$ 3.61	\$ 2.54	1.95
Income Eligible Residential															
Single Family - Income Eligible Services	10,096	987	9.8%	861	91	10.6%	\$ 5,952.3	\$ 675.3	11.3%	201,916	19,736	9.8%	\$ 29.48	\$ 34.22	0.49
Income Eligible Multifamily	24,413	578	2.4%	3,500	580	16.6%	\$ 3,009.5	\$ 113.1	3.8%	447,962	8,689	1.9%	\$ 6.72	\$ 13.02	0.29
SUBTOTAL	34,508	1,565	4.5%	4,361	671	15.4%	\$ 8,961.8	\$ 788.4	8.8%	649,878	28,425	4.4%	\$ 13.79	\$ 27.74	0.78
Non-Income Eligible Residential															
EnergyWise	25,621	7,513	29.3%	2,050	1,386	67.6%	\$ 8,117.6	\$ 2,198.8	27.1%	608,029	174,561	28.7%	\$ 13.35	\$ 12.60	3.76
Energy Star® HVAC	29,994	5,876	19.6%	3,677	668	18.2%	\$ 2,693.1	\$ 655.9	24.4%	495,828	100,026	20.2%	\$ 5.43	\$ 6.56	2.94
EnergyWise Multifamily	14,561	1,856	12.7%	4,360	78	1.8%	\$ 1,512.1	\$ 159.3	10.5%	225,079	32,158	14.3%	\$ 6.72	\$ 4.95	0.93
Home Energy Reports	115,426	24,890	21.6%	152,324	157,167	103.2%	\$ 471.5	\$ 86.3	18.3%	115,426	24,890	21.6%	\$ 4.08	\$ 3.47	12.44
Residential New Construction	4,346	179	4.1%	300	8	2.7%	\$ 620.5	\$ 72.2	11.6%	82,971	4,478	5.4%	\$ 7.48	\$ 16.12	0.09
Comprehensive Marketing - Residential							\$ 79.9	\$ 6.2	7.7%						
Community Based Initiatives - Residential							\$ 68.9	\$ 0.9	1.3%						
SUBTOTAL	189,948	40,314	21.2%	162,711	159,307	97.9%	\$ 13,563.6	\$ 3,179.6	23.4%	1,527,333	336,114	22.0%	\$ 8.88	\$ 9.46	20.16
Regulatory															
EERMC							\$ 361.2	\$ 77.7	21.5%						
OER							\$ 361.2	\$ 90.3	25.0%						
SUBTOTAL							\$ 722.4	\$ 168.0	23.3%						
TOTAL	446,621	45,776	10.2%	168,030	160,022	95.2%	\$ 32,770.4	\$ 4,268.6	13.0%	4,816,261	416,758	8.7%	\$ 6.80	\$ 10.24	22.89

NOTES
(1)(4) Targets from Docket 4979 - Attachment 6, Table G-7 (gas).
(3) Pct Achieved is Column (2)/ Column (1).
(4) Participation was planned and is reported in 'net' terms which takes into account free-ridership and spillover.
(6) Pct Achieved is Column (5)/ Column (4).
(7) Approved Implementation Budget from Docket 4979, Attachment 6 Table G-3 (gas), Refiled December 4, 2019.
(8) Year To Date Expenses include Implementation expenses.
(9) Pct Achieved is Column (8)/ Column (7).
(13) Planned \$/lifetime MMBtu from Docket 4979 - Attachment 6, Table G-5 (gas), Refiled December 4, 2019 - adjusted to reflect format of quarterly report. Program Implementation Expenses/lifetime MMBtu.
(14) \$/lifetime MMBtu = Column (8)*1000/Column (11)
(15) Peak Hour Gas Demand Savings is a test metric in 2020 and represents a rough approximation of peak-hour gas demand impacts. Column(2) *0.01 *0.05
Values in quarterly reports are preliminary and subject to change. Data is finalized in the Year-End Report.

**Table 3
National Grid
Revolving Loan Funds**

Large C&I Electric Revolving Loan Fund

Small Business Electric Revolving Loan Fund

<u>Income Statement</u>		
(1)	2020 Funds Available	\$7,023,410
(2)	2020 Loan budget	\$10,000,000
(3)	Committed	\$5,693,994
(4)	Paid	\$319,612
(5)	Repayments	\$1,306,730
(6)	Available 03/31/20	\$5,293,124

<u>Income Statement</u>		
(1)	2020 Funds Available	\$2,556,663
(2)	2020 Loan Budget	\$3,000,000
(3)	Committed	\$0
(4)	Paid	\$1,549,836
(5)	Repayments	\$1,848,392
(6)	Available 03/31/20	\$3,298,556

<u>Program Impact</u>		
(7)	Number of loans	10
(7b)	Participants	7
(8)	Annual Savings (Net MWh)	332
(9)	Lifetime Savings (Net MWh)	3,615
(10)	Annual Savings (Net kW)	66

<u>Program Impact</u>		
(7)	Number of loans	154
(8)	Annual Savings (Net MWh)	1,762
(9)	Lifetime Savings (Net MWh)	21,291
(10)	Annual Savings (Net kW)	295

Rhode Island Public Energy Partnership (RI PEP)

C&I Gas Revolving Loan Fund

<u>Income Statement</u>		
(1)	2020 Funds Available	\$321,649
(2)	2020 Loan Budget	\$0
(3)	Committed	\$0
(5)	Repayments	\$56,371
(6)	Available 03/31/20	\$378,020

<u>Income Statement</u>		
(1)	2020 Funds Available	\$804,205
(2)	2020 Loan Budget	\$1,100,000
(3)	Committed	\$509,239
(4)	Paid	\$186,329
(5)	Repayments	\$241,260
(6)	Available 03/31/20	\$645,692

<u>Program Impact</u>		
(7)	Number of loans	0
(7b)	Participants	0
(8)	Annual Savings (Net MWh)	0
(9)	Lifetime Savings (Net MWh)	0
(10)	Annual Savings (Net kW)	0

<u>Program Impact</u>		
(7)	Number of loans	2
(7b)	Participants	1
(8)	Annual Savings (Net MMBtu)	4,419
(9)	Lifetime Savings (Net MMBtu)	44,193

Notes

1 Amount available as of January 1, 2020. C&I Gas Revolving Loan Fund Includes injection as detailed in Attachment 6, Table G-10 of 2020 Annual Plan.

2 Budget adopted by Sales Team for 2020 operations. Budget includes projections of repayments made during 2020.

3 As of March 30, 2020

4 As of March 30, 2020

5 As of March 30, 2020

6 Fund balance as of March 30, 2020

7 As of March 30, 2020. Number is associated with paid loans.

7b Unique customer names for large business (one customer name can have multiple sub accounts as is in the case of a franchise). Customer accounts used for small business (not adjusted for net-to-gross). Number is associated with paid loans.

8 As of March 30, 2020. Number is associated with paid loans.

9 As of March 30, 2020. Number is associated with paid loans.

10 As of March 30, 2020. Number is associated with paid loans.

**Table 4
National Grid
2020 Test Metrics**

Customer Satisfaction¹
92.8%

NOTES

¹The Customer Satisfaction metric is based on an average across the EnergyWise, Single Family Income Eligible Services, and Residential Consumer Products Programs. The metric is based off customer responses to the following questions: Would you recommend this service to friend or family? How satisfied are you with the energy efficiency services you received?