

August 24, 2017

**BY HAND DELIVERY AND ELECTRONIC MAIL**

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

**RE: Docket 4654 - National Grid Electric and Gas Energy Efficiency Programs  
2017 Quarterly Reports – First and Second Quarters**

Dear Ms. Massaro:

I have enclosed ten (10) copies of National Grid's<sup>1</sup> quarterly reports for the first and second quarters of 2017. This report includes the preliminary quarterly results for the Company's natural gas and electric energy efficiency programs, a summary of the programs' progress, and a status of the Commercial & Industrial revolving loan fund. 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 781-907-2121.

Very truly yours,



Raquel J. Webster

Enclosures

cc: Docket 4654 Service List  
Steve Scialabba, Division  
Jon Hagopian, Esq.

---

<sup>1</sup> The Narragansett Electric Company d/b/a National Grid.

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.

The paper copies of this filing are being hand delivered to the Rhode Island Public Utilities Commission and to the Rhode Island Division of Public Utilities and Carriers.

\_\_\_\_\_  
Joanne M. Scanlon

August 24, 2017  
Date

**Docket No. 4654 - National Grid - 2017 Energy Efficiency Program Plan  
Service list updated 11/11/16**

<b>Name/Address</b>	<b>E-mail Distribution List</b>	<b>Phone</b>
Raquel Webster, Esq. <b>National Grid</b> 280 Melrose St. Providence, RI 02907	<a href="mailto:Raquel.webster@nationalgrid.com">Raquel.webster@nationalgrid.com;</a>	781-907-2121
	<a href="mailto:Joanne.scanlon@nationalgrid.com">Joanne.scanlon@nationalgrid.com;</a>	
	<a href="mailto:Celia.obrien@nationalgrid.com">Celia.obrien@nationalgrid.com;</a>	
	<a href="mailto:Jeremy.newberger@nationalgrid.com">Jeremy.newberger@nationalgrid.com;</a>	
Jon Hagopian, Esq. <b>Division of Public Utilities and Carriers</b>	<a href="mailto:Jon.hagopian@dpuc.ri.gov">Jon.hagopian@dpuc.ri.gov;</a>	401-784-4775
	<a href="mailto:Al.mancini@dpuc.ri.gov">Al.mancini@dpuc.ri.gov;</a>	
	<a href="mailto:Al.contente@dpuc.ri.gov">Al.contente@dpuc.ri.gov;</a>	
	<a href="mailto:Macky.McCleary@dpuc.ri.gov">Macky.McCleary@dpuc.ri.gov;</a>	
	<a href="mailto:Jonathan.Schrag@dpuc.ri.gov">Jonathan.Schrag@dpuc.ri.gov;</a>	
	<a href="mailto:Steve.scialabba@dpuc.ri.gov">Steve.scialabba@dpuc.ri.gov;</a>	
Tim Woof Jennifer Kallay Synapse Energy Economics 22 Pearl Street Cambridge, MA 02139	<a href="mailto:twoolf@synapse-energy.com">twoolf@synapse-energy.com;</a>	
	<a href="mailto:jkallay@synapse-energy.com">jkallay@synapse-energy.com;</a>	
Marisa Desautel, Esq. ( <b>EERMC</b> ) Law Office of Marisa Desautel, LLC 55 Pine St. Providence, RI 02903	<a href="mailto:marisa@desautelesq.com">marisa@desautelesq.com;</a>	401-477-0023
Mike Guerard, Optimal Energy	<a href="mailto:guerard@optenergy.com">guerard@optenergy.com;</a>	
Mark E. LeBel, Esq. <b>Acadia Center</b> 31 Milk Street Suite 501 Boston, MA 02108	<a href="mailto:mlebel@acadiacenter.org">mlebel@acadiacenter.org;</a>	617-742-0054 Ext. 104
	<a href="mailto:aaanthony@acadiacenter.org">aaanthony@acadiacenter.org;</a>	
	<a href="mailto:lmalone@acadiacenter.org">lmalone@acadiacenter.org;</a>	
Scudder Parker VEIC	<a href="mailto:sparker@veic.org">sparker@veic.org;</a>	
Carol Grant, Commissioner <b>Office of Energy Resources (OER)</b>	<a href="mailto:Carol.grant@energy.ri.gov">Carol.grant@energy.ri.gov;</a>	
	<a href="mailto:Christopher.Kearns@energy.ri.gov">Christopher.Kearns@energy.ri.gov;</a>	

	<a href="mailto:Danny.Musher@energy.ri.gov">Danny.Musher@energy.ri.gov</a> ;	
	<a href="mailto:Nicholas.Ucci@energy.ri.gov">Nicholas.Ucci@energy.ri.gov</a> ;	
	<a href="mailto:Becca.Trietch@energy.ri.gov">Becca.Trietch@energy.ri.gov</a> ;	
Daniel W. Majcher, Esq. ( <b>OER</b> ) Andrew Marcaccio, Esq. Dept. of Administration Division of Legal Services One Capitol Hill, 4 <sup>th</sup> Floor Providence, RI 02908	<a href="mailto:Daniel.majcher@doa.ri.gov">Daniel.majcher@doa.ri.gov</a> ;	401-222-8880
	<a href="mailto:Andrew.Marcaccio@doa.ri.gov">Andrew.Marcaccio@doa.ri.gov</a> ;	
Larry Chretien, Executive Director <b>People's Power and Light</b>	<a href="mailto:Larry@massenergy.org">Larry@massenergy.org</a> ;	
Douglas W. Gablinske, Executive Director <b>The Energy Council of RI (TEC-RI)</b>	<a href="mailto:doug@tecri.org">doug@tecri.org</a> ;	
Brigid Ryan, Director <b>Emerald Cities – Rhode Island</b>	<a href="mailto:bryan@emeraldcities.org">bryan@emeraldcities.org</a> ;	
<b>Original &amp; 9 copies file w/:</b> Luly E. Massaro, Commission Clerk Public Utilities Commission 89 Jefferson Blvd. Warwick, RI 02888	<a href="mailto:Luly.massaro@puc.ri.gov">Luly.massaro@puc.ri.gov</a> ;	401-780-2107
	<a href="mailto:Linda.george@puc.ri.gov">Linda.george@puc.ri.gov</a> ;	
	<a href="mailto:Alan.nault@puc.ri.gov">Alan.nault@puc.ri.gov</a> ;	
	<a href="mailto:Todd.bianco@puc.ri.gov">Todd.bianco@puc.ri.gov</a> ;	
Lewis Babbitt Dept. of Human Services	<a href="mailto:Lewis.babbitt@dhs.ri.gov">Lewis.babbitt@dhs.ri.gov</a> ;	401-462-6424

# Rhode Island Energy Efficiency

First Quarter 2017 | National Grid

May 11th, 2017

## Overview

National Grid is off to a great start for the first quarter of 2017. The Company focused on reaching new participants in residential programs and creating new leads in the Commercial and Industrial (C&I) sector to develop a strong pipeline for 2017. Efforts are also focused on setting strong foundations for innovation in the next three years. At the end of the first quarter, the Company achieved 24.2% of the electric savings goal and 26.7% of the gas savings goal.

On the residential side, to promote participation in the Residential New Construction program, the Company worked with developers very closely and provided technical support to large multi-unit projects. On the commercial side, there was active participation in the Large Commercial Retrofit program with customers such as schools, warehouses, and manufactures.

To prepare for the next three years, the Company selected the new lead vendor for the multifamily programs based on key areas of consideration such as innovation/technological capabilities, customer management, retrofit experience, and cost competitiveness. On the C&I side, potential CHP projects and new Strategic Energy Management Planning (SEMP) initiatives are being scoped aggressively.

For the fourth year in a row, National Grid partnered with the RI Office of Energy Resources (OER) and the RI Energy Efficiency and Resource Management Council (EERMC) to host the Rhode Island Energy Expo at the 2017 RI Home Show from March 30<sup>th</sup> through April 2<sup>nd</sup>. With over 25,000 attendees, the Company aggressively promoted the EnergyWise Home Energy Assessment and received a remarkable 488 on-site requests for assessments.

EnergyWise was awarded the 2017 ENERGY STAR Partner of Year for Program Implementation for the leadership in energy efficiency and commitment to successful Home Performance with Energy Star (HPwES) program.

The 2016 Jobs Study was also finalized in the first quarter. The study found that National Grid's 2016 energy efficiency programs supported 702 full-time equivalent (FTE) workers. Most of the jobs created as a result of the energy efficiency investments were local because they were tied to installation of equipment and other materials. In fact, of the 923 companies and agencies involved in National Grid's 2016 EE programs, 82% were located in Rhode Island.

Based on the strong first quarter results, National Grid believes 2017 will be another successful year to come.

## 2017 Program & Initiative Updates

### Residential New Construction (RNC)

- Residential New Construction had a strong first quarter with 232 completed units (one large mill renovation with 142 units).
- 35 homes achieved Tier II (minimum of 31% savings over the program baseline) and 3 homes achieved Tier III (minimum of 45% savings over the program baseline).
- 228 units enrolled in the program during the first quarter, which is 41% of the overall goal for the year. These newly enrolled projects have aggressive timelines and their progress may confirm whether these initial signs represent a potential turnaround in the market.
- Enrollment Highlight
  - A.R. Building Company enrolled additional phases of an existing project (Highland Homes) into the program and is poised to enroll a second project later in the year. This out of state developer was initially skeptical about the program but overcame their reluctance after meeting directly with National Grid representatives in 2015. The first 45-unit phase of their 180-unit project completed in 2016 and the RNC team provided a significant amount of technical support throughout the construction process to ensure they met programs standards. Plans for a second project, Kettle Point, as well as a third project, Reynolds Farm (the apartment phase) have been finalized and the developer intends to enroll both projects in the program. Overall, they will bring approximately 700 units to the program over the course of three years.

### Income Eligible

- Weatherization Technical Committee meetings took place on February 9, 2017 and April 6, 2017. The Best Practices meeting took place on February 16th, 2017.
- The Company hosted a table for four days at the RI Home Show. Six Energy Fellows, volunteers from University of Rhode Island, were also on hand to work with customers and get hands on experience with customers.
- Implementation of the National Grid Background Check program continued in the first quarter, with an emphasis on specialty contractors (electricians, chimney service, disaster prep, etc.)
- The lead vendor worked with collaborative partners to deliver a first quarter training with John Krigger (Saturn Press) for Auditors and Crew Chiefs. This training is tied to the DOE Standard Work Specifications (SWS) and the RI low-income Weatherization Assistance Program (RI WAP/IES) Field Manual, ensuring consistent measure installation across the state.

### EnergyWise

- 2,266 audits were completed through the first quarter, with carryover from 2016. The pipeline is much smaller than most winter periods. Marketing tactics will continue.

- 321 HEAT Loans were processed in the first quarter, totaling \$17 million loaned. The Company and the lead vendor are researching ways to reduce expense of Heat Loan for 2018.
- 563 gas weatherizations were completed through the first quarter.

## **EnergyWise and Income Eligible Multifamily**

- The Company evaluated three strong proposals from four companies for lead vendor services during the first quarter. Among the areas of consideration were: innovation/technological capabilities, customer management, retrofit experience, and cost competitiveness. The companies who submitted the bids took part in a thorough interview process and selection was made in the beginning of the second quarter.
- The income eligible electric program is off to a strong 2017 with 28% of the savings goal achieved through the first quarter. The gas program saw a slow start to the year. However, pipeline for the gas budget is strong and the current savings does not take into consideration the heating system installations slated to begin May 2017.
- Like the income eligible program, the Market Rate gas program saw a slow start in 2017. However, the electric program had tremendous interest early 2017. The gas program does possess a good pipeline and the Company is encouraged that it will get on pace in the second quarter.
- The commercial and industrial multifamily program is on pace for a successful 2017 with approximately 20% of the goal achieved in the first quarter.

## **ENERGYSTAR® Lighting and Appliances**

- Special Earth Month lighting promotions were designed for April in Home Depot and Lowe's. Promotions had enhanced incentives and additional signage.
- Two educational tables were set up in January in Westerly and Middletown, two educational tables were in February in North Kingstown and North Smithfield, and three educational tables took place in March with two in Cranston and one in Providence.
- Pool Pump agreements for 2017 have been completed with local distributors. Trainings with two manufacturers about the upstream program were completed in the first quarter. Outreach to pool dealers and suppliers is ongoing.

## **ENERGYSTAR® HVAC (Heating and Cooling)**

- There was a large turnout for the Rhode Island Trade Ally Breakfast held on April 5<sup>th</sup>. General feedback was positive with interest in boiler controls and training opportunities.
- In effort to connect with more contractors, the program staffs attended the RI Plumbing and Mechanical Inspectors monthly meeting in East Providence. They will be working with the lead vendor to deliver training on outdoor reset controls.
- The lead vendor was successful in connecting with several HVAC and plumbing contractors while in attendance to the RI Home show. The

contractors were very pleased to have material to show prospective customers.

- The program's lead vendor continued to provide outreach and programmatic support to participating contractors to ensure they had the knowledge to effectively communicate the program offering to customers, and the technical expertise to offer quality installations.

### **Home Energy Reports**

- During the first quarter, the program saved 42,005 MMBTUs (71% of filed goal) and 8,018 MWh (30.6% of filed goal). The gas program looks strong and is anticipated to surpass goal while the electric program is expected to come in right around target.
- Other notable efforts include:
  - Refilling 32,000 electric and dual fuel customers
  - Hosting trainings for Customer Service Representatives to educate customers on the program
  - Creating High Use Alerts to be sent later this spring/summer
  - Crafting a Re-Introduction module to familiarize customers with the purpose of the program

### **Community Initiative**

- The Rhode Island Energy Challenge spent the first quarter celebrating the efforts of the 2016 winning towns during the Rhode Island Home Show, in addition to recruiting municipalities to take part in the 2017 campaign.
- Four towns will run approximately 6-month long energy efficiency promotional campaigns to increase energy audits, drive program participation, and create a lasting plan for the towns to follow after their participation in the campaign has ended. The towns will be announced in the second quarter.

### **Code Compliance Enhancement Initiative (CCEI)**

- The Rhode Island building commission anticipated adopting a new energy code in 2016 but the Office of Regulatory Reform's request that all sections of the code undergo an economic analysis has resulted in a significant delay. The energy code was reviewed first and passed quickly and successfully. However, as there was no similar precedent for reviewing other sections of the code, the state issued an RFP to identify a third party to assist with developing an appropriate procedure. One bidder applied and is being asked to perform the work within a capped amount. If the bidder accepts, and both sides can agree on other terms (duration of project, etc.), they will move forward. If the bidder declines, the state will either re-write/re-submit a new RFP or hires two people to do the work.
- The timeline for adoption of the new energy code remains uncertain and if the review process extends into 2018, it is possible that the next code adopted in Rhode Island would be based on 2018 IECC.
- In 2017, the initiative will focus on outreach, trainings (in the form of classroom trainings, workshops, and field trainings), webinars, circuit Rider assistance, and third party inspection support.

- On February 17<sup>th</sup>, 2017 at the Rhode Island Builders Officials Association (RIBOA) – 2017 Annual Expo & Education Fair, a CCEI training was held for 21 attendees, mostly code officials. The training provided an overview of residential energy code requirements, including air leakage and duct leakage requirements, air barrier and insulation components, lighting, ventilation and compliance pathways.
- A residential training was held at JLC Live in Providence on March 24th. An overview of 2015 IECC was provided to 40 people. Representatives from the Company and the lead vendor staffed a booth for the two-day event, answering questions on the energy code and providing information on programs offered by National Grid.

### **Large Commercial New Construction**

- Upstream initiatives:
  - Discussions continued around new upstream lighting technologies that will be added to the program.
  - Discussions continued around new upstream HVAC technologies that will be added to the programs. It is fairly possible that the Company will be offering circulator pumps as a measure by the end of the of third or fourth quarter of 2017.
- A Building Operator Certification (BOC) Level I class is scheduled for the fall in Providence.
- Company owned LED street lighting tariff went into effect on January 1<sup>st</sup>, 2017. Barrington, West Warwick, and Providence were in the process of installing LED street lights and controls. In addition, Bristol and Cranston were in the process of installing LED street lights.

### **Large Commercial Retrofit**

- One customer plans to convert campus lighting to LEDs, which will bring 810,000 KW of savings. The project is expected to be completed in July. A retailer's warehouse and office space plans to move forward with a performance lighting project for 700,000 sq ft. This project consists of LED integrated control fixtures and an icloud base control system.
- A large manufacturer is working with Leidos under the Manufacturing Initiative on six HVAC related measures. These six projects could yield as much as 700,000 kWh for a relatively low incentive.
- The State Strategic Energy Management Planning (SEMP) initiative had an active first quarter. 15 scoping studies and two retrocomissioning studies were completed. In addition, the first project with On-bill Financing (OBR) for the State SEMP was signed.
- A manufacturer is up and running with a 1,250 KW CHP. A hotel will witness test in May. Three CHPs at hospitals are looking for approvals from their Board. Another manufacturer is just beginning to investigate the process. A 630 KW system for a waste water facility may be completed by the end of the year.

### **Small Business Direct Install**



- The Small Business Direct Install program has started out the year with a strong first quarter performance and is primarily projected to deliver 95-100% of the savings goal.

### **Finance**

- The company has been spending a good deal of time researching what the appropriate amount of OBR will be needed in 2018-2020 to meet the newly approved savings targets. Though these targets are not binding, the Company is using them as guideposts.

### **Pilots**

- Design is underway for a Smart Lighting/Home Energy Solutions demonstration. Recruitment of customers will begin in June.
- 50% of the demand response goal has been achieved in the C&I Demand Response demonstration.

### **Evaluation**

- Metering is in progress at customer sites for the C&I Comprehensive Design Approach Evaluation.
- Field metering has been completed for the C&I Custom Process study. Analysis is in progress.
- For the C&I Custom HVAC study, most site visits have been completed and the study is moving into the analysis phase.
- For the C&I Upstream Lighting study, the workplan and sample design are in progress.
- Both the Residential New Construction Baseline study and the Codes Attribution Evaluation study have completed project scoping and moved into the implementation phase. Site visits have begun for the Residential New Construction Baseline study.
- The Customer Participation study is also in its implementation and data analysis phase.

### **Upcoming Events:**

- Community Connections - Pawtucket & Central Falls on May 18<sup>th</sup> from 6-8 pm.
- TEC-RI sessions:
  - Apr 27th: Going Beyond Lighting Upgrades and VFDs
  - May 25th: Solar & Financing Alternatives for Commercial Buildings

NATIONAL GRID ENERGY EFFICIENCY PROGRAMS IN RHODE ISLAND  
 Table 1. Summary of Electric 2017 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)
	Demand Reduction (Annual kW)			Energy Savings (Annual MWh)			Customer Participation			Expenses (\$ 000)			Lifetime savings, MWh	\$/kWh	Planned \$/kWh
	Target	Year To Date	Pct Achieved	Target	Year To Date	Pct Achieved	Target	Year To Date	Pct Achieved	Budget	Year To Date	Pct Achieved			
<b>Commercial and Industrial</b>															
Large Commercial New Construction	1,276	179	14.0%	14,270	1,090	7.6%	201	27	13.4%	\$5,121.4	\$730.3	14.3%	14,861	\$ 0.049	\$ 0.022
Large Commercial Retrofit	13,317	2,796	21.0%	77,611	17,522	22.6%	2,188	363	16.6%	\$23,708.4	\$4,119.8	17.4%	263,478	\$ 0.016	\$ 0.041
Small Business Direct Install	2,815	361	12.8%	12,136	2,602	21.4%	744	146	19.6%	\$8,831.4	\$1,619.7	18.3%	32,389	\$ 0.050	\$ 0.076
Commercial Demonstration and R&D										\$874.4	\$0.5	0.1%			
Finance Costs										\$1,300.0	N/A	N/A			
RI Infrastructure Bank										\$4,900.0	\$0.0	0.0%			
<b>SUBTOTAL</b>	<b>17,408</b>	<b>3,336</b>	<b>19.2%</b>	<b>104,017</b>	<b>21,214</b>	<b>20.4%</b>	<b>3,133</b>	<b>535</b>	<b>17.1%</b>	<b>\$44,735.6</b>	<b>\$6,470.3</b>	<b>14.5%</b>	<b>310,728</b>	<b>\$ 0.021</b>	<b>\$ 0.046</b>
<i>Subtotal with Finance</i>										\$44,735.6	\$6,470.3	14.5%	310,728	\$ 0.021	\$ 0.046
<b>Income Eligible Residential</b>															
Single Family - Income Eligible Services	652	125	19.1%	4,350	755	17.4%	2,625	638	24.3%	\$9,268.1	\$1,353.8	14.6%	8,808	\$ 0.154	\$ 0.200
Income Eligible Multifamily	145	38	26.3%	2,726	769	28.2%	2,894	2,288	79.1%	\$2,708.4	\$552.7	20.4%	5,579	\$ 0.099	\$ 0.097
<b>SUBTOTAL</b>	<b>797</b>	<b>163</b>	<b>20.4%</b>	<b>7,076</b>	<b>1,525</b>	<b>21.5%</b>	<b>5,519</b>	<b>2,926</b>	<b>53.0%</b>	<b>\$11,976.5</b>	<b>\$1,906.6</b>	<b>15.9%</b>	<b>14,386</b>	<b>\$ 0.133</b>	<b>\$ 0.161</b>
<b>Non-Income Eligible Residential</b>															
Residential New Construction	54	44	81.2%	1,065	258	24.2%	561	232	41.4%	\$1,045.3	\$152.5	14.6%	4,763	\$ 0.032	\$ 0.066
ENERGY STAR® HVAC	330	136	41.2%	1,376	346	25.1%	1,900	698	36.7%	\$1,669.5	\$353.5	21.2%	4,570	\$ 0.077	\$ 0.124
EnergyWise	376	41	10.9%	6,545	1,592	24.3%	9,000	2,851	31.7%	\$9,630.0	\$1,483.7	15.4%	14,514	\$ 0.102	\$ 0.166
EnergyWise Multifamily	288	40	13.9%	3,519	445	12.6%	4,000	1,207	30.2%	\$3,443.5	\$398.8	11.6%	3,627	\$ 0.110	\$ 0.111
ENERGY STAR® Lighting	5,466	1,277	23.4%	46,856	10,943	23.4%	279,425	88,931	31.8%	\$9,412.4	\$1,460.8	15.5%	99,862	\$ 0.015	\$ 0.038
Residential Consumer Products	705	48	6.8%	4,708	251	5.3%	14,700	1,339	9.1%	\$2,125.0	\$141.0	6.6%	1,933	\$ 0.073	\$ 0.081
Home Energy Reports	3,119	1,320	42.3%	26,184	8,018	30.6%	208,063	267,433	128.5%	\$2,447.0	\$18.4	0.8%	8,018	\$ 0.002	\$ 0.093
Energy Efficiency Educational Programs										\$40.0	\$0.0	0.0%			
Residential Demonstration and R&D										\$1,179.5	\$100.9	8.6%			
Community Based Initiatives - Residential										\$270.8	\$83.4	30.8%			
Comprehensive Marketing - Residential										\$535.4	\$11.0	2.1%			
<b>SUBTOTAL</b>	<b>10,338</b>	<b>2,905</b>	<b>28.1%</b>	<b>90,254</b>	<b>21,854</b>	<b>24.2%</b>	<b>517,648</b>	<b>362,690</b>	<b>70.1%</b>	<b>\$31,798.4</b>	<b>\$4,204.1</b>	<b>13.2%</b>	<b>137,288</b>	<b>\$0.031</b>	<b>\$ 0.070</b>
<b>Regulatory</b>															
EERMC										\$816.3	\$57.2	7.0%			
OER										\$816.3	\$214.9	26.3%			
<b>SUBTOTAL</b>										<b>\$1,632.5</b>	<b>\$272.1</b>	<b>16.7%</b>			
<b>TOTAL</b>	<b>28,543</b>	<b>6,403</b>	<b>22.4%</b>	<b>201,347</b>	<b>44,592</b>	<b>22.1%</b>	<b>526,299</b>	<b>366,152</b>	<b>69.6%</b>	<b>\$ 90,143.1</b>	<b>\$ 12,853.0</b>	<b>14.3%</b>	<b>462,402</b>	<b>\$0.028</b>	<b>\$ 0.058</b>
<b>TOTAL With Finance</b>										<b>\$ 90,143.1</b>	<b>\$ 12,853.0</b>	<b>14.3%</b>	<b>462,402</b>	<b>\$0.028</b>	<b>\$ 0.058</b>
RGGI										\$ 516.1	\$23.0	4.5%			
System Reliability Procurement										\$ 399.3	\$71.8	18.0%			

NOTES  
 (1)(4)(7) Targets from Docket 4654 - Attachment 5, Table E-7 (electric)  
 (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 Budget includes Implementation and Evaluation budgets from Docket 4654, Attachment 5 Table E-2 (electric).  
 (11) Year To Date Expenses include Implementation and Evaluation expenses.  
 RGGI Expenses are counted separate as those funds were not part of the approved 2017 budget. Details on RGGI spend are found in Table 4.  
 (12) Pct Achieved is Column (11)/ Column (10).  
 (14) \$/lifetime kWh = Column (11)/Column (13)  
 (15) Planned \$/lifetime kWh - Attachment 5, Table E-5 (electric)  
 System Reliability Procurement targets from Docket 4654 - Attachment 5, Table E-7 (electric), not included in Expenses Total

NATIONAL GRID ENERGY EFFICIENCY PROGRAMS IN RHODE ISLAND  
**Table 2. Summary of Gas 2017 Target and Preliminary 1st Quarter Results**

GAS PROGRAMS Sector and Program	(1) (2) (3) Energy Savings (MMBtu)			(4) (5) (6) Customer Participation			(7) (8) (9) Expenses (\$ 000)			(10)	(11)	(12)
	Approved Target	Year To Date	Pct Achieved	Approved Target	Year To Date	Pct Achieved	Approved Budget	Year To Date	Pct Achieved	Lifetime savings, MMBtu	\$/Lifetime MMBtu	Planned \$/Lifetime MMBtu
<b>Commercial and Industrial</b>												
Large Commercial New Construction	53,516	5,790	10.8%	149	42	28.2%	\$2,086.3	\$638.3	30.6%	117,564	\$ 5.43	\$ 3.93
Large Commercial Retrofit	187,938	48,994	26.1%	147	20	13.4%	\$5,830.5	\$826.9	14.2%	322,295	\$ 2.57	\$ 4.07
Small Business Direct Install	3,639	1,178	32.4%	86	33	38.9%	\$268.7	\$18.5	6.9%	7,099	\$ 2.61	\$ 7.74
Commercial & Industrial Multifamily	4,434	878	19.8%	806	251	31.1%	\$738.9	\$48.6	6.6%	9,362	\$ 5.19	\$ 12.82
Commercial Demonstration and R&D							\$73.8	\$0.6	0.8%			
RI Infrastructure Bank							\$100.0	\$0.0	0.0%			
Finance Costs							\$500.0	N/A	N/A			
<b>SUBTOTAL</b>	<b>249,527</b>	<b>56,839</b>	<b>22.8%</b>	<b>1,188</b>	<b>346</b>	<b>29.1%</b>	<b>\$9,598.1</b>	<b>\$1,532.9</b>	<b>16.0%</b>	<b>456,319</b>	<b>\$ 3.36</b>	<b>\$ 4.50</b>
<i>Subtotal With Finance</i>							\$9,598.1	\$1,532.9	16.0%	456,319	\$ 3.36	\$ 4.50
<b>Income Eligible Residential</b>												
Single Family - Income Eligible Services	11,032	2,468	22.4%	590	127	21.5%	\$3,640.6	\$611.8	16.8%	49,360	\$ 12.39	\$ 16.50
Income Eligible Multifamily	15,810	733	4.6%	2,709	878	32.4%	\$2,216.6	\$74.7	3.4%	8,933	\$ 8.36	\$ 7.94
<b>SUBTOTAL</b>	<b>26,842</b>	<b>3,201</b>	<b>11.9%</b>	<b>3,299</b>	<b>1,005</b>	<b>30.5%</b>	<b>\$5,857.2</b>	<b>\$686.5</b>	<b>11.7%</b>	<b>58,293</b>	<b>\$ 11.78</b>	<b>\$ 11.72</b>
<b>Non-Income Eligible Residential</b>												
EnergyWise	28,587	2,522	8.8%	2,250	663	29.5%	\$6,917.2	\$812.6	11.7%	45,417	\$ 17.89	\$ 14.63
Energy Star® HVAC	27,393	4,816	17.6%	2,104	466	22.1%	\$1,803.5	\$303.9	16.9%	79,915	\$ 3.80	\$ 10.82
EnergyWise Multifamily	11,518	480	4.2%	4,101	44	1.1%	\$1,823.6	\$70.6	3.9%	7,340	\$ 9.62	\$ 13.22
Home Energy Reports	59,164	42,005	71.0%	99,001	125,409	126.7%	\$497.0	\$111.2	22.4%	42,005	\$ 2.65	\$ 8.40
Residential New Construction	11,575	866	7.5%	373	72	19.3%	\$840.7	\$146.7	17.5%	21,625	\$ 6.78	\$ 8.30
Residential Demonstration and R&D							\$264.4	\$24.5	9.3%			
Comprehensive Marketing - Residential							\$69.8	\$3.9	5.6%			
Community Based Initiatives - Residential							\$79.6	\$22.3	28.0%			
<b>SUBTOTAL</b>	<b>138,237</b>	<b>50,689</b>	<b>36.7%</b>	<b>107,829</b>	<b>126,654</b>	<b>117.5%</b>	<b>\$12,295.7</b>	<b>\$1,495.7</b>	<b>12.2%</b>	<b>196,302</b>	<b>\$ 7.62</b>	<b>\$ 12.58</b>
<b>Regulatory</b>												
EERMC							\$304.3	\$18.0	5.9%			
OER							\$304.3	\$66.6	21.9%			
<b>SUBTOTAL</b>							<b>\$608.5</b>	<b>\$84.6</b>	<b>13.9%</b>			
<b>TOTAL</b>	<b>414,606</b>	<b>110,729</b>	<b>26.7%</b>	<b>112,316</b>	<b>128,005</b>	<b>114.0%</b>	<b>\$ 28,359.5</b>	<b>\$ 3,799.7</b>	<b>13.4%</b>	<b>710,915</b>	<b>\$ 5.34</b>	<b>\$ 7.96</b>
<i>Total with Finance</i>							\$ 28,359.5	\$ 3,799.7	13.4%	710,915	\$ 5.34	\$ 7.96

NOTES  
(1)(4) Targets from Docket 4654 - Attachment 6, Table G-7 (gas).  
(3) Pct Achieved is Column (2)/ Column (1).  
Savings from the Codes and Standards initiative are not counted until year-end. Therefore, savings in the Commercial and Residential New Construction Programs may track lower each quarter.  
(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 Budget includes Implementation and Evaluation budgets from Docket 4654, Attachment 6 Table G-2 (gas).  
(8) Year To Date Expenses include Implementation and Evaluation expenses.  
(9) Pct Achieved is Column (8)/ Column (7).  
(11) \$/lifetime MMBtu = Column (8)\*1000/Column (10)  
(13) Planned \$/lifetime MMBtu - Attachment 6, Table G-5 (gas).

**Table 3  
National Grid  
Revolving Loan Funds**

**Large C&I Electric Revolving Loan Fund**

(1)	2017 Funds Available	\$13,661,388
(2)	2017 Loan budget	\$11,000,000
(3)	Committed	\$8,068,443
(4)	Paid	\$1,477,363
(5)	Number of loans	48
(6)	Participants	22
(7)	<u>Savings (MWh)</u>	<u>3,132</u>
(8)	Available	\$1,454,194

**Small Business Electric Revolving Loan Fund**

(1)	2017 Funds Available	\$2,567,799
(2)	2017 Loan Budget	\$4,400,000
(3)	Committed	\$84,625
(4)	Paid	\$876,929
(6)	Participants	204
(7)	<u>Savings (MWh)</u>	<u>2,602</u>
(8)	Available	\$3,438,446

**Rhode Island Public Energy Partnership (RI PEP)**

(9)	2017 Funds Available	\$281,385
(10)	Committed	\$9,076
(11)	Paid	\$0
(12)	Repayments	\$98,713
(13)	Participants	1
(14)	<u>Savings (MWh)</u>	<u>15</u>
(15)	Available	\$371,022

**C&I Gas Revolving Loan Fund**

(1)	2017 Funds Available	\$1,479,707
(2)	2017 Loan budget	\$1,000,000
(3)	Committed	\$405,562
(4)	Paid	\$252,306
(6)	Participants	7
(7)	<u>Savings (MMBtu)</u>	<u>1,388</u>
(8)	Available	\$342,132

Notes

- 1 Amount available as of January 1, 2017, including 2017 fund injections detailed in Table E-10 and G-10.
- 2 Budget adopted by Sales Team for 2017 operations. Budget includes projections of repayments made during 2017.
- 3 As of March 31, 2017
- 4 As of March 31, 2017
- 5 As of March 31, 2017
- 6 Unique customer names for large business and customer accounts for small business (not adjusted for net-to-gross).
- 7 As of March 31, 2017
- 8 Available funds as of March 31, 2017, not including repayments.
- 9 Funds available as of January 1, 2017
- 10 As of March 31, 2017
- 11 As of March 31, 2017
- 12 As of March 31, 2017
- 13 As of March 31, 2017
- 14 As of March 31, 2017
- 15 Available funds as of March 31, 2017

**Table 4**  
**2017 RGGI Budget and Spend**

<b>Initiative</b>	<b>2017 Budget</b>	<b>Spend</b>
RI Public Energy Partnership Incentives	\$ 83,879	\$ -
Residential Delivered Fuels	\$ 21,484	\$ 21,484
Agricultural Delivered Fuels	\$ 240,116	\$ -
Heat Pump Study	\$ 170,597	\$ 1,543
<b>Total</b>	<b>\$ 516,076</b>	<b>\$ 23,027</b>

Notes

1. Budgets may differ from quarterly and annual RGGI reports delivered to the Office of Energy Resources as they represent funds available for program year 2017, net of previous year's spend.
2. Table only includes RGGI funds for specific initiatives. Does not include funds allocated to lowering the energy efficiency program charge or those allocated to loan funds.

# Rhode Island Energy Efficiency

Second Quarter 2017 | National Grid

August 10, 2017

## Overview

National Grid had a strong first half of 2017 and is on track to achieve its planned savings for the year. The company initiated customer segmentation in the residential sector to reach more low income customers while in the C&I sector the company is hitting its stride with LED streetlight annual MWh savings of over 6,800 MWh in the second quarter. At the end of the second quarter the company achieved 50.6% of the electric savings goal and 41.6% of the gas savings goal.

On the residential side in the Home Energy Reports program, the company sent the first Non-AMI high usage alerts to 31,535 Rhode Island customers through the second quarter. In the residential HVAC program the company provided ongoing outreach and programmatic support to participating contractors and trade allies to ensure they had the knowledge to effectively communicate program offerings to customers and the technical expertise to offer quality installations.

On the commercial side, the Commercial Retrofit program led the way by achieving savings of 40,386 annual MWh (52% of the annual goal) and 73,595 MMBtu (39% of the annual goal). These savings were achieved through the completion of a large CHP project and also over 6,800 MWh of savings from LED Streetlight programs in Providence, Cranston, and Bristol. In addition, National Grid welcomed Jennifer Parsons as the new Commercial Upstream Program Manager. Jennifer has been reaching out to vendors to investigate joint promotions which can be leveraged.

In the second quarter the Rhode Island Energy Challenge held multiple stakeholder engagement meetings which contributed to the towns of Cumberland, Smithfield, and North Kingstown committing to surpass their home energy assessment goals, promote energy efficiency programs, and create energy awareness task forces.

In the company's EnergyWise program, 345 HEAT loans were completed through the second quarter for a total of \$1.9 million in loans. In addition, the program implemented new weatherization job scoring software and processes for improved and timelier reporting to independent insulation contractors, helping us to improve our efficiency by saving time and money.

Looking to the future of energy efficiency, over 250 Ecobee Lytes were installed in the second quarter due to an overwhelming response to last year's Ecobee demand response offering. National Grid's Connected Solutions is also adding NEST to the selection of wifi thermostats that are eligible to participate in Rhode Island's Connected Solutions pilot program.

Based on the continued strong results in the second quarter, National Grid is confident that 2017 will be another strong year for energy efficiency in Rhode Island.

## 2017 Program & Initiative Updates

### Residential New Construction (RNC)

- Residential New Construction saw a continued strong trend in the second quarter with 184 units completed during the second quarter, bringing the total so far in 2017 to 416 (achieving 76% of the goal of 550)
- 47 homes achieved Tier II (minimum of 31% savings over the program baseline) and 3 homes achieved Tier III (minimum of 45% savings over the program baseline).
- Approximately ½ of the projects heat with gas and half with electric, resulting in an increase in electric savings.
- 214 units enrolled in the program during the second quarter, bringing the total through the second quarter to 442, 80% of the overall goal for the year.
- Enrollment Highlights
  - Ministerial Road in Kingstown scored a HERS Index of 18 and achieved 54.3% savings over the program baseline without PV and 123.6% savings with the addition of 686 square feet of PV. The home has two ductless mini splits (33 and 26 SEER), a 3.24 EF heat pump water heater, Energy Star appliances and lighting, and a measured air leakage rate of 0.19 ACH50.
  - The West Broadway Neighborhood Association (WBNA) had advocated for nearly a decade to return an 1892 historic four room schoolhouse on Almy and Meader Streets in Providence to active use. As the population declined in the late 1950s and 1960s, so did the public school population. The Meader Street School was decommissioned by the City in the 1970s, then used as RI's Head Start Administration until 2000 at which point it became vacant. The schoolhouse is now listed on the Providence Preservation Society's Most Endangered Properties List. In 2015 WBNA received historic tax credits worth \$250,000 for the project and the schoolhouse is now being transformed into 10 residential rental units, 4 of which will be designated for affordable housing. The developer has planted grass, an orchard that includes apple, peach and plum trees, and built raised garden beds for future tenants.



### Income Eligible

- Three Weatherization Technical Committee Meetings took place during second quarter.
- The Weatherization Operations Committee was created to review and update the Operations Manual. The Committee, National Grid, DHS and Agencies, meets approximately every two weeks. The goal is to update the Manual and develop a training program for all Auditors and Monitors in the third quarter.
- The Best Practices Meeting was conducted on May 18, 2017. Guest speakers from the company's Customer Satisfaction Group presented information about National Grid's programs for arrears and budget plans.
- Each agency was provided with a midyear update on their budget and energy savings goals. A new pipeline reporting tool was developed and provided to CAPs to give clear direction on goals and opportunities.
- Implementation of the National Grid Background Check program continued in the second quarter, with an emphasis on specialty contractors (electricians, chimney service, disaster prep, etc.).
- The company participated in the following trainings and workshops:
  - A four-hour ASHRAE 2016 training and three-hour Rhode Island Energy Code training, co-presented, with Paul Raymer. Attendees included Auditors, Monitors and Program Managers.
  - The Mobile Home Weatherization training – (Presented by Jules Junker of ThermalWorks).
  - The Weatherization Policy Advisory Committee – (The annual meeting reviewing the DOE weatherization program).
  - The ACEEE Low Income Working Group webinar on Reaching Renters.

### EnergyWise

- 4,061 audits completed through the second quarter.
- The company attended several community events to promote EnergyWise including:
  - The Newport Chamber of Commerce
  - Fidelity Employee Event
  - JWU Sustainability Fair
  - Pawtucket/Central Falls Customer Connections Meeting,
  - The Providence Energy Fair
  - An Energy Fair.
- EnergyWise began a “summer sizzler” on 4/15 with a bonus of \$100 which was increased to \$200 on 6/1. The program will conclude on 8/31.
- EnergyWise began wifi thermostats installations during the second quarter.
- The program implemented new weatherization job scoring software and processes for improved and timelier reporting to independent insulation contractors.
- 345 HEAT loans were completed through the second quarter for a total of \$1.9 million in loans.



- 958 gas weatherization jobs completed through the second quarter. When including other fuels the total increases to 1,361.

### **EnergyWise and Income Eligible Multifamily**

- In the second quarter The Company awarded the Multifamily Market Rate, Multifamily Commercial Gas, and Income Eligible Multifamily program vendor contract to RISE Engineering after a thorough review of the program and a competitive Request for Proposal (RFP) process in the first quarter.
- The Company began the installation of heating systems for the 2017 program year under the Income Eligible gas budget.
- A large focus was placed on serving income eligible facilities heated with delivered fuels during the second quarter for multiple retrofit projects.
- For both Market Rate and Income Eligible programs the Company targeted numerous 1-4 unit geographically diverse sites under single ownership in order to support the program's pipeline.

### **ENERGYSTAR® Lighting and Appliances**

- A negotiated cooperative promotion was developed between Globe Electric and the Rhode Island Foodbank to support the distribution of LED A-line product two-packs to food bank customers.
- Support of customer outreach events included: Tessier's Hardware, an Earth Day event in Pawtucket, the URI Spring Festival in Kingston, CVS' Green Expo in Woonsocket, and staffing at the Rhode Island Home Show.
- For Appliances, there were two dehumidifier turn-in events at the Eco Depot in Johnston RI. One of these events was in conjunction with the Narragansett DPW, which brought in 129 units.
- A \$40 mail in rebate for room air conditioners also began in June.

### **ENERGYSTAR® HVAC (Heating and Cooling)**

- The company provided ongoing outreach and programmatic support to participating contractors and trade allies to ensure they had the knowledge to effectively communicate the program offering to customers, and the technical expertise to offer quality installations.
- The company also scheduled trainings and events with distributors and contractors in preparation for the upcoming heating season.

### **Home Energy Reports**

- Through the second quarter of 2017 the Home Energy Reports program saved 49,771 MMBTUs (84% of the annual goal) and 14,816 MWh (55% of the annual goal). The gas program continues to be on pace to exceed expectations.
- The company also sent the first Non-AMI high usage alerts to 31,535 customers through the second quarter.
- Customer segmentation was initiated to offer income eligible customers a relevant marketing experience in the Home Energy Report through driving to Rhode Island assistance programs.

- The Company paused its Points & Rewards component to review effectiveness.

## Community Initiatives

- In the second quarter the Rhode Island Energy Challenge held multiple stakeholder engagement meetings and appeared before town councils to encourage participation in the energy efficiency community engagement program.
- As a result of these efforts the towns of Cumberland, Smithfield, and North Kingstown have stepped forward and committed to surpassing their home energy assessment goals, promoting energy efficiency programs, and creating energy awareness task forces. A fourth community is being recruited in the third quarter

## Code Compliance Enhancement Initiative (CCEI)

- In the second quarter the RI building commission requested the ICC develop a benefit-cost analysis on the 2015 ICC family of codes.
- E. A. McNulty's new Sableswood North residential development in Lincoln RI. project is now in the RNC program. Insulation and air barrier details were examined in the shell home and attendees gained an understanding of the importance of testing at the rough stage. Participants observed and participated in both blower door and duct leakage tests.



- Presentations at Dryvit in West Warwick focused on areas including: how air and moisture move through and affect insulated structures, the science associated with occupant health and comfort, and long term building durability.
- Residential HVAC and IAQ (including ASHRAE 62.2.6 2016) training was provided for energy auditors and weatherization professionals who perform work for National Grid's Income Eligible program.

## Large Commercial New Construction

- In July the company welcomed Jennifer Parsons as the new Commercial Upstream Program Manager

- The new program manager is reaching out to vendors to investigate joint promotions which can be leveraged.

### **Large Commercial Retrofit**

- Large Commercial Retrofit is off to a strong start through the first half of 2017, already achieving savings of 40,386 MWh (52% of the annual goal) and 73,595 MMBtu (39% of the annual goal).
- Lighting sales continue to trend as usual through the second quarter.
- Street light incentives were paid for retainage in Bristol, Cranston and Providence.
- North Kingstown, South Kingstown, Narragansett and Warwick are planning to put out a joint RFP to purchase LED street lights. Given that none of these towns have purchased their street lights from National Grid yet this presents a strong opportunity for savings.
- The company is waiting for PRISM on applications for 11 towns. Through the second quarter, only Middletown has expressed interest in leasing LED street lights from National Grid.
- Post inspection and commissioning were completed for a manufacturer and retainage was paid. A post inspection was completed for a hotel and commissioning is now underway. Two offer letters will be going out in the near future with an expected completion date in the summer of 2018 for both CHP projects.

### **Small Business Direct Install**

- The Small Business Direct Install program had a strong first half of the year by achieving savings of 4,901 MWh (40% the annual goal) and 1,814 MMBtu (50% of the annual goal) and is projected to deliver 95-100% of the savings goal by the end of the year.

### **Pilots**

- Installation for the Smart Lighting Solutions pilot is scheduled to begin in July. The study is expected to be 18 months in duration and will track how customers interact with wifi controllable lighting and how changes in behavior can lead to improved efficiency.
- Over 250 Ecobee Lytes were installed in the second quarter due to an overwhelming response to last year's Ecobee demand response offering.
- Connected Solutions is adding NEST to the selection of wifi thermostats that are eligible to participate in Rhode Island's Connected Solutions pilot.

### **Evaluation**

- The participation study has proceeded and is nearing draft report stage.
- For the C&I Custom Process study the Rhode Island analysis is almost complete and is waiting on the Massachusetts portion of the study.
- Site reports have been completed for the C&I Custom HVAC study, with the final report in progress.
- Metering continues at customer sites for the C&I Comprehensive Design Approach Evaluation.

- For the C&I Upstream Lighting study, field measurement activities are in progress.
- For the C&I Free-Ridership / Spillover study the sample design has been selected and surveying is in progress with a report expected in mid-August.

## **Upcoming Events**

- The Energy Summit will take place at Gillette Stadium on October 19<sup>th</sup>

NATIONAL GRID ENERGY EFFICIENCY PROGRAMS IN RHODE ISLAND

Table 1. Summary of Electric 2017 Target and Preliminary 2nd Quarter Results

ELECTRIC PROGRAMS Sector and Program	(1) (2) (3) (4)				(5) (6) (7) (8)				(9) (10) (11)			(12) (13) (14)			(15) (16) (17)		
	Demand Reduction (Annual kW)				Energy Savings (Annual MWh)				Customer Participation			Expenses (\$ 000)			Lifetime savings, MWh \$/kWh Planned \$/kWh		
	Target	Year To Date	Pct Achieved	Pct Projected	Target	Year To Date	Pct Achieved	Pct Projected	Target	Year To Date	Pct Achieved	Budget	Year To Date	Pct Achieved			
<b>Commercial and Industrial</b>																	
Large Commercial New Construction	1,276	474	37.1%		14,270	2,959	20.7%		201	53	26.4%	\$5,121.4	\$1,829.6	35.7%	43,156	\$ 0.042	\$ 0.022
Large Commercial Retrofit	13,317	5,382	40.4%		77,611	40,386	52.0%		2,188	1,325	60.6%	\$23,708.4	\$9,482.9	40.0%	555,933	\$ 0.017	\$ 0.041
Small Business Direct Install	2,815	705	25.0%		12,136	4,901	40.4%		744	285	38.3%	\$8,831.4	\$2,691.3	30.5%	60,495	\$ 0.044	\$ 0.076
Commercial Demonstration and R&D												\$874.4	\$19.0	2.2%			
Finance Costs												\$1,300.0	N/A	N/A			
RI Infrastructure Bank												\$4,900.0	\$0.0	0.0%			
<b>SUBTOTAL</b>	<b>17,408</b>	<b>6,561</b>	<b>37.7%</b>	<b>90.0%</b>	<b>104,017</b>	<b>48,246</b>	<b>46.4%</b>	<b>97.3%</b>	<b>3,133</b>	<b>1,663</b>	<b>53.1%</b>	<b>\$44,735.6</b>	<b>\$14,022.8</b>	<b>31.3%</b>	<b>659,583</b>	<b>\$ 0.021</b>	<b>\$ 0.046</b>
<i>Subtotal with Finance</i>												\$44,735.6	\$14,022.8	31.3%	659,583	\$ 0.021	\$ 0.046
<b>Income Eligible Residential</b>																	
Single Family - Income Eligible Services	652	308	47.3%		4,350	1,688	38.8%		2,625	1,403	53.4%	\$9,268.1	\$3,314.1	35.8%	19,520	\$ 0.170	\$ 0.200
Income Eligible Multifamily	145	82	56.5%		2,726	1,604	58.8%		2,894	2,471	85.4%	\$2,708.4	\$1,208.7	44.6%	13,365	\$ 0.090	\$ 0.097
<b>SUBTOTAL</b>	<b>797</b>	<b>390</b>	<b>49.0%</b>	<b>102.4%</b>	<b>7,076</b>	<b>3,292</b>	<b>46.5%</b>	<b>108.9%</b>	<b>5,519</b>	<b>3,874</b>	<b>70.2%</b>	<b>\$11,976.5</b>	<b>\$4,522.8</b>	<b>37.8%</b>	<b>32,885</b>	<b>\$ 0.138</b>	<b>\$ 0.161</b>
<b>Non-Income Eligible Residential</b>																	
Residential New Construction	54	71	131.9%		1,065	430	40.4%		561	416	74.2%	\$1,045.3	\$478.9	45.8%	8,210	\$ 0.058	\$ 0.066
ENERGY STAR® HVAC	330	176	53.5%		1,376	565	41.1%		1,900	968	50.9%	\$1,669.5	\$643.2	38.5%	7,446	\$ 0.086	\$ 0.124
EnergyWise	376	97	25.7%		6,545	3,841	58.7%		9,000	5,765	64.1%	\$9,630.0	\$4,858.3	50.4%	35,876	\$ 0.135	\$ 0.166
EnergyWise Multifamily	288	58	20.2%		3,519	803	22.8%		4,000	1,478	37.0%	\$3,443.5	\$653.4	19.0%	7,062	\$ 0.093	\$ 0.111
ENERGY STAR® Lighting	5,466	3,406	62.3%		46,856	29,195	62.3%		279,425	243,458	87.1%	\$9,412.4	\$4,096.5	43.5%	260,450	\$ 0.016	\$ 0.038
Residential Consumer Products	705	112	15.9%		4,708	718	15.2%		14,700	3,129	21.3%	\$2,125.0	\$544.6	25.6%	5,512	\$ 0.099	\$ 0.081
Home Energy Reports	3,119	1,996	64.0%		26,184	14,816	56.6%		208,063	267,433	128.5%	\$2,447.0	\$1,260.0	51.5%	14,816	\$ 0.085	\$ 0.093
Energy Efficiency Educational Programs												\$40.0	\$41.2	102.9%			
Residential Demonstration and R&D												\$1,179.5	\$229.5	19.5%			
Community Based Initiatives - Residential												\$270.8	\$131.2	48.5%			
Comprehensive Marketing - Residential												\$535.4	\$179.4	33.5%			
<b>SUBTOTAL</b>	<b>10,338</b>	<b>5,917</b>	<b>57.2%</b>	<b>98.6%</b>	<b>90,254</b>	<b>50,368</b>	<b>55.8%</b>	<b>100.1%</b>	<b>517,648</b>	<b>522,647</b>	<b>101.0%</b>	<b>\$31,798.4</b>	<b>\$13,116.2</b>	<b>41.2%</b>	<b>339,372</b>	<b>\$ 0.039</b>	<b>\$ 0.070</b>
<b>Regulatory</b>																	
EERMC												\$816.3	\$246.2	30.2%			
OER												\$816.3	\$430.7	52.8%			
<b>SUBTOTAL</b>												<b>\$1,632.5</b>	<b>\$676.9</b>	<b>41.5%</b>			
<b>TOTAL</b>	<b>28,543</b>	<b>12,868</b>	<b>45.1%</b>	<b>93.4%</b>	<b>201,347</b>	<b>101,906</b>	<b>50.6%</b>	<b>98.9%</b>	<b>526,299</b>	<b>528,183</b>	<b>100.4%</b>	<b>\$ 90,143.1</b>	<b>\$ 32,338.7</b>	<b>35.9%</b>	<b>1,031,840</b>	<b>\$ 0.031</b>	<b>\$ 0.058</b>
<i>TOTAL With Finance</i>												\$ 90,143.1	\$ 32,338.7	35.9%	1,031,840	\$ 0.031	\$ 0.058
RGGI												\$ 516.1	\$23.0	4.5%			
Municipal LED Street Lights												\$ 1,525.0	\$300.0	19.7%			
System Reliability Procurement												\$ 399.3	\$137.4	34.4%			

NOTES

- (1)(5)(9) Targets from Docket 4654 - Attachment 5, Table E-7 (electric)
- (3) Pct Achieved is Column (2)/ Column (1).
- (7) Pct Achieved is Column (6)/ Column (5).
- (9) Participation was planned and is reported in 'net' terms which takes into account free-ridership and spillover.
- (11) Pct Achieved is Column (10)/ Column (9).
- (12) Approved Budget includes Implementation and Evaluation budgets from Docket 4654, Attachment 5 Table E-2 (electric).
- (13) Year To Date Expenses include Implementation and Evaluation expenses.
- RGGI Expenses are counted separate as those funds were not part of the approved 2017 budget. Details on RGGI spend are found in Table 4.
- (14) Pct Achieved is Column (13)/ Column (12).
- (16) \$/lifetime kWh = Column (13)/Column (15)
- (17) Planned \$/lifetime kWh - Attachment 5, Table E-5 (electric)
- System Reliability Procurement targets from Docket 4654 - Attachment 5, Table E-7 (electric), not included in Expenses Total
- The Company received \$1,525,000 from the State to pay out to municipal customers on its behalf.

NATIONAL GRID ENERGY EFFICIENCY PROGRAMS IN RHODE ISLAND  
**Table 2. Summary of Gas 2017 Target and Preliminary 2nd Quarter Results**

GAS PROGRAMS Sector and Program	(1) (2) (3) (4) Energy Savings (MMBtu)			(5) (6) (7) Customer Participation			(8) (9) (10) Expenses (\$ 000)			(11)	(12)	(13)	
	Approved Target	Year To Date	Pct Achieved	Approved Target	Year To Date	Pct Achieved	Approved Budget	Year To Date	Pct Achieved	Lifetime savings, MMBtu	\$/Lifetime MMBtu	Planned \$/Lifetime MMBtu	
<b>Commercial and Industrial</b>													
Large Commercial New Construction	53,516	9,828	18.4%		149	83	55.7%	\$2,086.3	\$1,003.4	48.1%	195,236	\$ 5.14	\$ 3.93
Large Commercial Retrofit	187,938	73,595	39.2%		147	40	27.3%	\$5,830.5	\$1,336.4	22.9%	573,870	\$ 2.33	\$ 4.07
Small Business Direct Install	3,639	1,814	49.8%		86	55	63.6%	\$268.7	\$40.3	15.0%	11,270	\$ 3.58	\$ 7.74
Commercial & Industrial Multifamily	4,434	914	20.6%		806	252	31.3%	\$738.9	\$66.0	8.9%	9,910	\$ 6.65	\$ 12.82
Commercial Demonstration and R&D								\$73.8	\$1.0	1.4%			
RI Infrastructure Bank								\$100.0	\$0.0	0.0%			
Finance Costs								\$500.0	N/A	N/A			
<b>SUBTOTAL</b>	<b>249,527</b>	<b>86,150</b>	<b>34.5%</b>	<b>100.0%</b>	<b>1,188</b>	<b>430</b>	<b>36.2%</b>	<b>\$9,598.1</b>	<b>\$2,447.1</b>	<b>25.5%</b>	<b>790,286</b>	<b>\$ 3.10</b>	<b>\$ 4.50</b>
<i>Subtotal With Finance</i>								\$9,598.1	\$2,447.1	25.5%	790,286	\$ 3.10	\$ 4.50
<b>Income Eligible Residential</b>													
Single Family - Income Eligible Services	11,032	6,278	56.9%		590	313	53.1%	\$3,640.6	\$1,653.9	45.4%	125,552	\$ 13.17	\$ 16.50
Income Eligible Multifamily	15,810	2,137	13.5%		2,709	1,395	51.5%	\$2,216.6	\$193.7	8.7%	28,579	\$ 6.78	\$ 7.94
<b>SUBTOTAL</b>	<b>26,842</b>	<b>8,415</b>	<b>31.4%</b>	<b>110.3%</b>	<b>3,299</b>	<b>1,708</b>	<b>51.8%</b>	<b>\$5,857.2</b>	<b>\$1,847.6</b>	<b>31.5%</b>	<b>154,131</b>	<b>\$ 11.99</b>	<b>\$ 11.72</b>
<b>Non-Income Eligible Residential</b>													
EnergyWise	28,587	14,506	50.7%		2,250	1,784	79.3%	\$6,917.2	\$3,925.9	56.8%	348,542	\$ 11.26	\$ 14.63
Energy Star® HVAC	27,393	8,596	31.4%		2,104	806	38.3%	\$1,803.5	\$643.7	35.7%	143,355	\$ 4.49	\$ 10.82
EnergyWise Multifamily	11,518	2,343	20.3%		4,101	1,950	47.5%	\$1,823.6	\$264.8	14.5%	34,013	\$ 7.79	\$ 13.22
Home Energy Reports	59,164	49,771	84.1%		99,001	125,409	126.7%	\$497.0	\$252.1	50.7%	39,357	\$ 6.41	\$ 8.40
Residential New Construction	11,575	2,620	22.6%		373	215	57.6%	\$840.7	\$429.7	51.1%	65,380	\$ 6.57	\$ 8.30
Residential Demonstration and R&D								\$264.4	\$24.5	9.3%			
Comprehensive Marketing - Residential								\$69.8	\$33.6	48.2%			
Community Based Initiatives - Residential								\$79.6	\$34.7	43.6%			
<b>SUBTOTAL</b>	<b>138,237</b>	<b>77,836</b>	<b>56.3%</b>	<b>108.2%</b>	<b>107,829</b>	<b>130,164</b>	<b>120.7%</b>	<b>\$12,295.7</b>	<b>\$5,609.1</b>	<b>45.6%</b>	<b>630,647</b>	<b>\$ 8.89</b>	<b>\$ 12.58</b>
<b>Regulatory</b>													
EERMC								\$304.3	\$77.6	25.5%			
OER								\$304.3	\$132.3	43.5%			
<b>SUBTOTAL</b>								<b>\$608.5</b>	<b>\$210.0</b>	<b>34.5%</b>			
<b>TOTAL</b>	<b>414,606</b>	<b>172,401</b>	<b>41.6%</b>	<b>103.4%</b>	<b>112,316</b>	<b>132,302</b>	<b>117.8%</b>	<b>\$ 28,359.5</b>	<b>\$ 10,113.8</b>	<b>35.7%</b>	<b>1,575,064</b>	<b>\$ 6.42</b>	<b>\$ 7.96</b>
<i>Total with Finance</i>								\$ 28,359.5	\$ 10,113.8	35.7%	1,575,064	\$ 6.42	\$ 7.96

NOTES  
(1)(5) Targets from Docket 4654 - Attachment 6, Table G-7 (gas).  
(3) Pct Achieved is Column (2)/ Column (1).  
Savings from the Codes and Standards initiative are not counted until year-end. Therefore, savings in the Commercial and Residential New Construction Programs may track lower each quarter.  
(5) Participation was planned and is reported in 'net' terms which takes into account free-ridership and spillover.  
(7) Pct Achieved is Column (6)/ Column (5).  
(8) Approved Budget includes Implementation and Evaluation budgets from Docket 4654, Attachment 6 Table G-2 (gas).  
(9) Year To Date Expenses include Implementation and Evaluation expenses.  
(10) Pct Achieved is Column (9)/ Column (8).  
(12) \$/lifetime MMBtu = Column (9)\*1000/Column (11)  
(13) Planned \$/lifetime MMBtu - Attachment 6, Table G-5 (gas).

**Table 4**  
**2017 RGGI Budget and Spend**

<b>Initiative</b>	<b>2017 Budget</b>	<b>Spend</b>
RI Public Energy Partnership Incentives	\$ 83,879	\$ -
Residential Delivered Fuels	\$ 21,484	\$ 21,484
Agricultural Delivered Fuels	\$ 240,116	\$ -
Heat Pump Study	\$ 170,597	\$ 1,543
<b>Total</b>	<b>\$ 516,076</b>	<b>\$ 23,027</b>

Notes

1. Budgets may differ from quarterly and annual RGGI reports delivered to the Office of Energy Resources as they represent funds available for program year 2017, net of previous year's spend.
2. Table only includes RGGI funds for specific initiatives. Does not include funds allocated to lowering the energy efficiency program charge or those allocated to loan funds.

**Table 3  
National Grid  
Revolving Loan Funds**

<b>Large C&amp;I Electric Revolving Loan Fund</b>			<b>Small Business Electric Revolving Loan Fund</b>		
(1)	2017 Funds Available	\$13,661,388	(1)	2017 Funds Available	\$2,567,799
(2)	2017 Loan budget	\$11,000,000	(2)	2017 Loan Budget	\$4,400,000
(3)	Committed	\$8,043,048	(3)	Committed	\$814,942
(4)	Paid	\$3,070,513	(4)	Paid	\$1,698,677
(5)	Repayments	\$1,981,092	(5)	Repayments	\$1,312,161
(6)	Number of loans	97	(7)	Participants	204
(7)	Participants	40	(8)	Savings (Gross MWh)	4,901
(8)	Savings (Gross MWh)	7,740	(9)	Savings (Net MWh)	5,085
(9)	Savings (Net MWh)	6,016	(10)	Savings (Gross kW)	761
(10)	Savings (Gross kW)	1,155	(11)	Saving (Net kW)	705
(11)	Saving (Net kW)	735	(12)	Available	\$3,198,542
(12)	Available	\$1,867,531			
<b>Rhode Island Public Energy Partnership (RI PEP)</b>			<b>C&amp;I Gas Revolving Loan Fund</b>		
(1)	2017 Funds Available	\$281,385	(1)	2017 Funds Available	\$1,479,707
(3)	Committed	\$9,076	(2)	2017 Loan budget	\$1,000,000
(4)	Paid	\$0	(3)	Committed	\$414,200
(5)	Repayments	\$181,432	(4)	Paid	\$297,998
(7)	Participants	1	(5)	Repayments	\$205,824
(8)	Savings (Gross MWh)	-	(7)	Participants	9
(9)	Savings (Net MWh)	-	(8)	Savings (Gross MMBtu)	265,828
(10)	Savings (Gross kW)	-	(9)	Savings (Net MMBtu)	194,626
(11)	Saving (Net kW)	-	(12)	Available	\$493,626
(12)	Available	\$453,741			

Notes

- 1 Amount available as of January 1, 2017, including 2017 fund injections detailed in Table E-10 and G-10.
- 2 Budget adopted by Sales Team for 2017 operations. Budget includes projections of repayments made during 2017.
- 3 As of June 30, 2017
- 4 As of June 30, 2017
- 5 As of June 30, 2017
- 6 As of June 30, 2017
- 7 Unique customer names for large business and customer accounts for small business (not adjusted for net-to-gross).
- 8 As of June 30, 2017
- 9 As of June 30, 2017
- 10 As of June 30, 2017
- 11 As of June 30, 2017
- 12 Available funds as of June 30, 2017.



**Efficient Buildings Fund  
Rhode Island Infrastructure Bank / Office of Energy Resources  
2017Q2 Report**

*Financing Program Income Statement*

Funds Available (4/1/17)	\$5 million SBC is equal to \$15mm - \$25mm in loans
Loans Paid Out	\$0
Loans Repayments	\$0
Loans Defaults	\$0
Outstanding Loan Value*	\$9.8mm
Funds Available (6/30/17)	\$5 million SBC is equal to \$15mm - \$25mm in loans

\*Outstanding loan value is cumulative. These loans were executed in 2016

*Financing Program Impacts*

<i>Participation</i>	
Number of Loans (#)	0
Number of Participants (#)	0
<i>Projects</i>	
Total Loan Volume (\$)	\$0
Total Associated Incentive Volume (\$) (Rd1 YTD)	\$986,865.88
<i>Savings (Rd1 YTD)</i>	
Gross Annual Electricity Saving Supported (MWh)	5,524 MWh
Gross Annual Capacity Reductions Supported (kW)	See Note (1)
Gross Annual Thermal Energy Saving Supported (therms)	58,716 therms
Lifetime Gross Energy Savings Supported (MMBTU)	See Note (2)
Total Annual Estimated Cost Savings (\$)	\$1,752,703.08

Note (1): This data was not collected for EBF Round 1 participants but will be available from future rounds.

Note (2): This data was not collected for EBF Round 1 participants but will be available from future rounds.

Loans and Participants: These numbers will be reported for 2017 activity. Loans expected to close in September 2017.