



STATE OF RHODE ISLAND
**ENERGY EFFICIENCY &
RESOURCE MANAGEMENT COUNCIL**

MEETING MINUTES

Thursday, February 16th 2017 | 3:30 - 5:30 PM

Conference Room A, 2nd Floor, Department of Administration, Providence, RI

Members in Attendance: Abigail Anthony, Bob Bacon, Joe Cirillo, Carol Grant, Michael McAteer, Shigeru Osada, Chris Powell, Karen Verrengia, Betsy Stubblefield Loucks, Tom Magliocchetti, Diane Williamson, Anthony Hubbard, Roberta Fagan.

Others Present: Mike Guerard, Raquel Webster, Savannah Harik, Becca Trietch, Sara Canabarro, Rachel Henschel, Kat Burnham, Muxi Yang, Angela Li, Ben Rivers, George Sfinarolakis.

1. Call to Order

Chairman Chris Powell called the meeting to order at 3:37pm.

2. Approval of Meeting Minutes

Chairman Powell asked for a motion to approve the minutes. Bob Bacon made motion, Karen Verrengia seconded it. All approved.

3. Executive Director Report (5 min)

Commissioner Carol Grant reported that the OER is focusing on four primary areas, which are: Clean Energy; Continue Leadership in Energy Efficiency; the Lead by Example Effort; and the Future of Electricity Grid, in which the OER, DPUC, PUC and others are working with National Grid.

Commissioner Grant also added that they have found a candidate to fill Rachel Sholly's position to work at the OER.

4. Executive Committee Report (15 min)

Chairman Powell stated that he spoke with Marisa Desautel, the EERMC counsel, about PUC deadlines and times to meet. Ms. Desautel had reported that a Technical session on the EERMC's proposed 2018-2020 Energy Efficiency Savings Targets and LCP Standards is scheduled for March 7th. In addition, Mr. Powell stated that Ms. Desautel's contract for legal services allows one more, one-year extension. The Executive Committee recommends extending it, but the Council will vote on this item later tonight.

Chairman Powell also reported that Betsy Stubblefield Loucks requested to step down as the 3rd member of the Executive Committee. Therefore, we will have to pick another 3rd member. He requested that if anyone on the council is interested, please talk to Commissioner Grant or Chairman Powell tonight or within the next few days.

Chairman Powell also informed the council that the special topic today, Lead by Example, would be presented by George Sfinarolakis from OER. He stated that they would be having special topics every meeting, and that he is open to any suggestions about possible topics to present.

Finally, Chairman Powell reported that at the Executive Commitment meeting, Nick Ucci from OER had mentioned a newer initiative on gas peaking demand issues. Mr. Ucci had talked about how OER was reviewing potential programs/options to help with this issue. Mr. Osada asked for more information

about the gas peaking topic, and Commissioner Grant asked that since Mr. Ucci was not present and was taking the lead on this topic, to provide time at the next Full Council meeting to discuss it further.

5. Schedule and Process for the EERMC Annual Report to General Assembly

Mike Guerard presented a schedule and some updates about how the EERMC Annual Report will be drafted. He also showed a brief outline of topics that had previously been covered by the report. Chairman Powell added that if someone does not know what the Annual Report looks like, they can access the past years online.

6. Updates on Energy Efficiency Programs and System Reliability Procurement

a) Review of 2016 Energy Efficiency Program

Angela Li, Muxi Yang and Ben Rivers had a brief presentation about the preliminary results of its energy efficiency programs for 2016. They reported that they reached over 100% participation for residential programs, and that the full portfolio would be over 100%.

They also shared that National Grid is rolling out a demo test for their Wi-Fi thermostat program for residential customers in March. and that this residential demand response program is new in Rhode Island. They hope to have some updates about the Demo in a few meetings.

7. Council Business

a) Vote on Final EERMC Budget

Becca Trietch reported that she had corrected the errors in the 2017 budget identified last meeting. She stated that the spending was very similar to the 2016 Budget.

Chairman Powell asked for a motion to approve the 2017 Budget. Joe Cirillo made motion and Bob Beacon seconded it. All approved.

b) Vote on Legal Contract Extension

Chairman Powell asked for a motion to approve a year-long extension of the current legal contract for Ms. Desautel, which is the second and final option for renewal. Bob Bacon asked why it was so much cheaper this year compared to last year. Becca Trietch reported that it was cheaper because last year there was a lot more work with several Dockets compared to this year. Karen Verrengia made motion and Bob Bacon seconded it. All approved.

c) Communications Working Group Update

Becca Trietch introduced Savannah Harik, who is the new EERMC intern. Ms. Trietch and Ms. Harik are working on the energy expo documents, and Ms. Harik is going to put together a display about Energy Efficiency in Rhode Island and some information about the EERMC for the Expo. Ms. Trietch is going to have tickets to be distributed by all the members who would like to attend the Expo at the next meeting.

The next topic the Communications Working Group will be discussing is the website development. The group will update the Council at the next meeting.

8. Special Topics Presentation

a) Lead By Example Update

George Sfinarolakis gave a presentation about the Lead by Example efforts and talked about the Executive Order by the Governor. Commissioner Grant suggested getting the Full Council members the copy of the Governor's Budget Article by next meeting.

The presentation was followed by a brief discussion amongst the council members about Strategy Energy Management Plans (SEMPs) with National Grid.

b) Review of Teaching- Learning Survey

Mike Guerard gave another brief introduction of Savannah Harik and let her go over the Teaching-Learning updates. Ms. Harik informed the members that she and Mark Kravatz are developing a survey which is expected to be sent out to the members by next week. The survey will gauge knowledge of energy efficiency related topics to better tailor future Special Topic presentations at council meetings. Once the survey is completed by the members, Ms Harik, the consultant team, and Ms. Trietch will use the responses to draft an EERMC Special Presentations schedule.

9. Public Comment

There was no public comment.

10. Adjournment

Chairman Chris Powell asked for a motion to adjourn, Karen made motion, and Bob Bacon seconded it. All approved. The meeting was adjourned at 5:04pm.

Meeting Materials



STATE OF RHODE ISLAND
**ENERGY EFFICIENCY &
RESOURCE MANAGEMENT COUNCIL**

MEETING MINUTES

Thursday, January 19th | 3:30 - 5:30 PM

Cafeteria Conference Room, Ground (G) Floor, Department of Administration, Providence, RI

Members in Attendance: Abigail Anthony, Bob Bacon, Joe Cirillo, Carol Grant, Jennifer Hutchinson, Michael McAteer, Shigeru Osada, Chris Powell, Karen Verrengia, Betsy Stubblefield Loucks, Tom Magliocchetti.

Others Present: Mike Guerard, Scudder Parker, Becca Trietch, Angela Li, Macky McCleary, Ben Rivers, Nicholas Ucci, Robert Beadle, Belinda Wong, Chon Meng Wong, Danny Musher.

1. Call to Order

Chairman Chris Powell called the meeting to order at 3:38 PM.

2. Approval of Meeting Minutes

Chris Powell made a motion to approve the minutes. Abigail Anthony seconded and all approved.

3. Executive Director Report (5 min)

Commissioner Carol Grant reported that the Greenhouse Gas Emissions Plan which was filled in 2016, laid out the State's pathway and framework for addressing the RI Greenhouse Emissions goals. Commissioner Grant also recognized everyone that worked on the plan, and stated that the 2020 goals are on target, though there is a lot of work to be done to achieve more distant goals.

Carol also stated that there has been a great development at the Office of Energy Resources by expanding the energy team to be collaborative with the Division of Public Utilities and Carriers. They have been working closely with each other, and focusing on strategic efforts.

Commissioner Grant concluded her report by introducing Macky McCleary, the DPUC Administrator, to the members. Macky talked for a couple of minutes about his background.

4. Executive Committee Report (5 min)

Chairman Chris Powell stated that the Annual Report to the General Assembly is due to be delivered by April 15th. He also stated that the preliminary policy recommendation list will be reviewed at the February Executive Committee meeting, and later presented to the Full Council. Mr. Powell also stated that the Council now has a lot of members, so it is important that we encourage and motivate volunteers to work on Sub-groups, and spread information through effective communication.

5. Policy and Planning Issues (50 min)

a) Consultant Team Updates (20 min)

Mike Guerard reported that the PUC had an open meeting about the 2017 Annual Energy Efficiency and System Reliability Plan, and it was unanimously approved. There were a few notes about the Financing aspects of the Plan, the Commissioners wanted to make sure that there are detailed reports on financing strategies going forward. National Grid will provide two yearly reports in regards to financing.

Nicholas Ucci provided the members with copies of the comments that were filled together with the Division.

Mike Guerard stated that the Targets and Standards that were voted on and unanimously approved by the Council, were submitted within two weeks of the vote. There are no new updates on it, hopefully there will be an update by February's meeting.

In regards to Demand Response, Scudder Parker, reported that he asked Doug from Synapse Energy Economics to write up one of his best proposals for a phase in approach to the AMI metering. What he wrote was a workable approach, and Mr. Parker shared it with Abigail, and National Grid. He stated that he could share it with others who are interested in reading it. He stated that this was a delicate issue, and nothing is out yet, so we will continue to have discussions in regards to it.

Mike Guerard and Scudder Parker reported on the PUC Docket #4600. They reported that work is underway with the DPUC to enhance the cost-benefit grid analyses used in RI. A much more expansive framework is being created for the TRC Test by the 4600 docket, with consideration to using the updated equation first on the Energy Efficiency programs. Danny Musher from OER added that the Targets and Standards filing already has expanded the allowable benefits slightly. Scudder stated that a RGGI report study may already contain some additional possible benefits to source. Mr. Musher pointed out that this is still in beginning stages. Shigeru Osada is concerned about the balance of costs versus benefits- Abigail pointed out that both costs and benefits are both being considered.

Michael McAteer stated that this is a topic that we will keep discussing and will be an important consideration for the 3-year Plan.

6. Updates on Energy Efficiency Programs and System Reliability Procurement (20 min)

a) Review Preliminary Results of 2016 Energy Efficiency Program (20 min)

Ben Rivers from National Grid reported that the data is still preliminary. National Grid is still processing 2016 payments, so the savings report is still in progress. Since the preliminary results report is not finalized, Mr. Rivers cannot report on such results today. Mr. Rivers hopes that by next week, the report will be finalized, and by February 9th he will be able to distribute it.

Mr. Rivers presented some examples about the past year's achievements. Angela Li reported on how EnergyWise is going to be featured on channel 10, during the Sunrise News hours.

Ben Rivers reported that for 2017, they are working on setting up some pilots in the real estate sector. They are actively looking at Green Leases.

Mr. Rivers also provided a quick update on street lighting. He stated that on December 20th the company-owned LED Lighting tariff was approved, and they are now in the process of putting together information packets for the cities and towns. He stated that some towns are actually already in the process of installing LED street lights. Ben Rivers also reported that they are currently working on doing seminars with TEC-RI. . These seminars will be about a wide range of topics for customers who would like to attend.

Shigeru Osada asked Mr. Rivers why new construction is at 74%, behind target, and what the reason is for it. Ben Rivers did not have an exact answer for Mr. Osada, so he will update the Council at the next Meeting.

7. Council Business (25min)

a) Vote on Final Consultant Team Work Plan and EERMC Budget (15 min)

Mike Guerard reported that the scope of work, which was previously talked about at other meetings included: the EERMC Website; the Intern; "Teaching and Learning"; and additional work in Demand Response. Mr. Guerard quickly reviewed these items.

Chairman Chris Powell asked if there were any questions or changes to these items, to which Mike Guerard asked to modify the budget for the website development work. Mr. Guerard asked that \$30,000 of the website amount be listed as its own line item in the budget as it will be paid directly to the website developer and not Optimal Energy. Chairman Chris Powell asked about item #4 (Demand Response) if there was going to be collaboration with the DG Board, to which Commissioner Grant replied that it would be a collaboration between OER, the C-Team and the DPUC. The continued collaboration between the EERMC and the DG Board will support efforts whenever possible.

Chairman Powell made motion to approve the consultant team work plan with the change of the \$30,000 website development, which won't be displayed in the contract, but in the annual budget.

Karen Verrengia made a motion to approve, Joe Cirillo seconded it, everyone approved unanimously.

Commissioner Grant stated that OER would update the overall EERMC budget for the next meeting.

Chairman Powell stated that they were not voting on the overall EERMC budget until the next Council Meeting.

b) Select members for a Communications Working Group (10 min)

Chairman Chris Powell asked for volunteers from the Council to be part of the Communications working group. Karen Verrengia, Tom Magliocchetti volunteered. Since there was a few members absent, Chairman Powell will ask again at the next meeting.

8. Special Topics Presentation (30 min)

a) Rhode Island's Greenhouse Gas Reduction Plan (30 min)

Danny Musher of the Office of Energy Resources presented on the recently released Greenhouse Gas Emissions Reduction Plan developed by the Executive Climate Change Coordination Council (EC4).

Danny concluded his presentation by saying that the EC4 is very excited about this topic and that this is a great opportunity for RI to show leadership.

9. Public Comment

There was no public comments.

10. Adjournment

Chairman Chris Powell made motion to adjourn, Joe Cirillo motioned it, and Michael McAteer seconded it. All approved. The meeting was adjourned at 5:30PM.



EERMC Annual Report to the General Assembly

Timeline and content



STATE OF RHODE ISLAND
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Date	Task
28-Feb	Kickoff meeting with Communications group – timeline, TOC, policy recommendations, writing assignments, charts, etc.
6-Apr	Executive Committee meeting – review status of first draft
14-Apr	First draft sent to EERMC for review
20-Apr	Council meeting – first draft review
4-May	Executive Committee meeting – review final draft
12-May	Final draft sent to EERMC
18-May	Council meeting – vote on final draft
By end of May	Send to the General Assembly

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 - ❖ 2016 Programs and Initiatives
 - Residential Programs and Initiatives
 - Commercial, Industrial & Public Programs and Initiatives
 - National Grid Energy Efficiency Jobs Study
 - Regional Greenhouse Gas Initiative
 - Planning Initiatives
 - 2018 – 2020 Saving Targets and LCP Standards Update
 - System Integration Rhode Island (SIRI)
 - 2015 System Reliability Procurement Plan
 - ❖ Looking Forward -- 2017 Plans & Highlights
- Appendix A – Case Studies
- Appendix B – 2016 Energy Efficiency Vendors

Policy Recommendations

	Outcome / Status
2016 Policy and Strategic Principles Recommendations	http://www.rieermc.ri.gov/documents/annual/6_2016%20EERMC%20Annual%20Report.pdf
“Policy” - Create a sustainable funding mechanism for unregulated fuels for Rhode Island residences and businesses.	DF legislation did not pass in 2016
“Policy” - Strengthen appliance energy efficiency standards for products not covered by federal action.	Appliance legislation did not pass in 2016
“Strat. Prin.” - Support ongoing investigation and efforts to optimize Rhode Island’s energy system integration: a. Identify Ways to Promote More Cost Effective, Comprehensive Non-Wires Alternatives Distribution Planning. b. Assess Market Potential, Costs, and Benefits of Strategic Electrification and Active Load Management. c. Pave the Way for Accelerated Use of Electric Vehicles. d. Map Rhode Island’s Current Renewable Energy Promotion Processes and Assess Adequacy and Gaps. e. Assess Market Potential, Costs, and Benefits of Advanced Metering Infrastructure and Time-Varying Rates. f. Consider Whether Methods of Performance Regulation Can Be Implemented to Further the Public Good	SIRI group successfully supported these investigations and efforts. Docket #4600 covered many of these topics.
“Strat. Prin.” - Determine the most appropriate Cost-Effectiveness Test Methodology for Rhode Island	As part of the EERMC’s filing of EE Targets and LCP Standards update, an “RI Test” has been proposed to the PUC.
“Strat. Prin.” - Establish a Rhode Island “Sustainability Hub” with Smart Grid Pilot.	National Grid released an RFP to launch a Sustainability Hub in 2017

EERMC ANNUAL REPORTS

	Outcome / Status
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“Strat. Prin.” - Establish a Rhode Island “Sustainability Hub” with Smart Grid Pilot.	National Grid released an RFP to launch a Sustainability Hub in 2017
2015 Policy Recommendations	http://www.rieermc.ri.gov/documents/annual/5_EERMC%20April%202015.pdf
Continue electric and natural gas Least Cost Procurement (LCP)	The General Assembly voted to extend LCP legislation through 2024 during the 2015 session
Expand Least Cost Procurement to unregulated fuels	Ongoing discussions with Stakeholders to craft legislation providing sustainable funding
Expand financing and investment tools	The RI Infrastructure Bank was established in summer 2015; the Revolving Loan/on-bill repayment fund was expanded; the EERMC hired a “Finance Expert” to further explore issue.

Advance systems integration	The System Integration RI group was in 2015; the PUC recently opened a docket to explore this issue, as it relates to ratemaking
Enhance workforce development around energy efficiency	Training and education associated with program implementation
2014 Policy Recommendations	http://www.rieermc.ri.gov/documents/annual/4_EERMC_April%202014.pdf
Extend Rhode Island’s Least Cost Procurement mandate beyond 2017	The General Assembly voted to extend LCP legislation through 2024 during the 2015 session
Develop a comprehensive financing approach to support aggressive Least Cost Procurement in Rhode Island	The RI Infrastructure Bank was established in summer 2015
Commence a comprehensive investigation of the potential for Grid Modernization to provide Least Cost Energy services and other benefits to RI’ers	The System Integration RI group was in 2015
Strengthen appliance minimum standards	Legislation was proposed, but not passed in 2014 and 2015.
2013 Policy Recommendations	http://www.rieermc.ri.gov/documents/annual/3_EERMC_April%202013.pdf
Financing for Energy Efficiency - Res PACE, Large C&I, look at C-PACE	The RI Infrastructure Bank was established in summer 2015
Building Labeling & Disclosure Strategies	OER-coordinated Working Groups have been formed for both residential and C&I labels, and DOE grants funds have been applied for.
2012 Policy Recommendations	http://www.rieermc.ri.gov/documents/annual/2_EERMC_May%202012.pdf
Disclosure strategies for homes & businesses and benchmarking requirements for public sector	OER-coordinated Working Groups have been formed for both residential and C&I labels, and DOE grants funds have been applied for.
Don’t redirect SBC funds to close budget gap	No sbc funds have been redirected
2011 Policy Recommendations	http://www.rieermc.ri.gov/documents/annual/1_EERMC_April%202011.pdf
The same Least Cost Procurement investment requirement that applies to electricity – and the ability to fund it – should be required in Rhode Island law for natural gas service delivery as well.	LCP was expanded to natural gas in 2012.
OER, National Grid, and the General Assembly should work aggressively to ensure that cost saving, comprehensive, all-fuels efficiency services are available to all unregulated fuel users (heating oil, kerosene or propane) like they already are for electric and natural gas customers.	A working group was formed in 2012; recent efforts to fashion legislation are underway.

1. The same Least Cost Procurement investment requirement that applies to electricity – and the ability to fund it – should be required in Rhode Island law for natural gas service delivery as well.

nationalgrid

HERE WITH YOU. HERE FOR YOU.

National Grid Fourth Quarter Results 2016

EERMC Meeting

2/16/16



Electric Sector Results

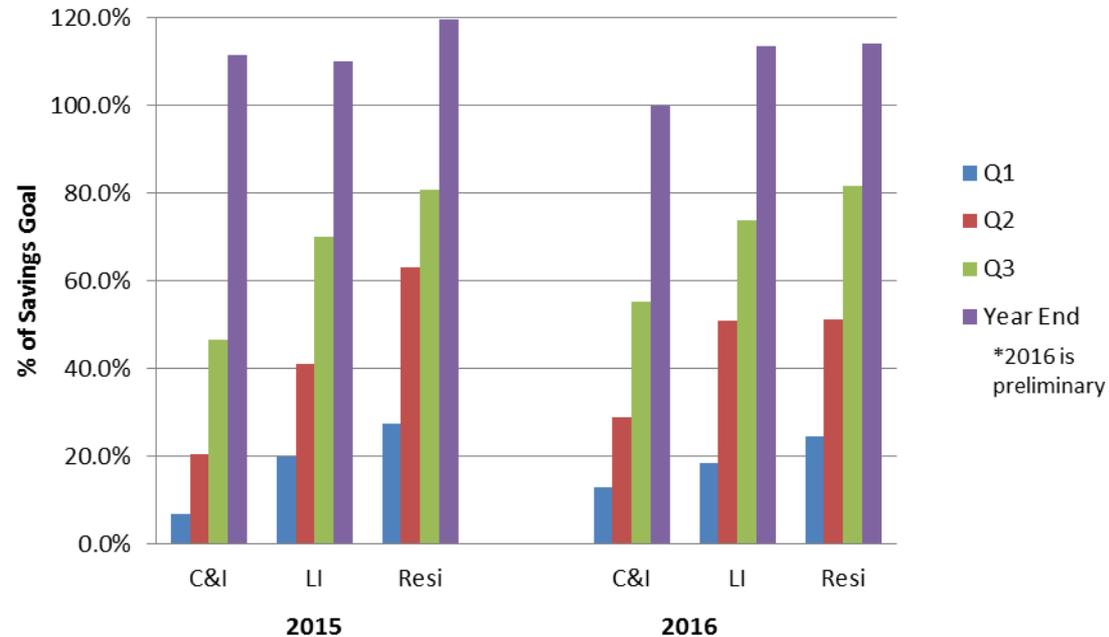
nationalgrid

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Electric Quarter 4 Results

	kW	KWh	Participation	Expenses
C&I	88.8%	99.8%	75.5%	84.8%
IE	154.7%	113.7%	110.3%	84.9%
Resi	116.7%	114.0%	132.1%	92.0%
Total	101.0%	107.2%	131.3%	87.8%

Progress Towards Electric Goals 2015 & 2016 by Quarter

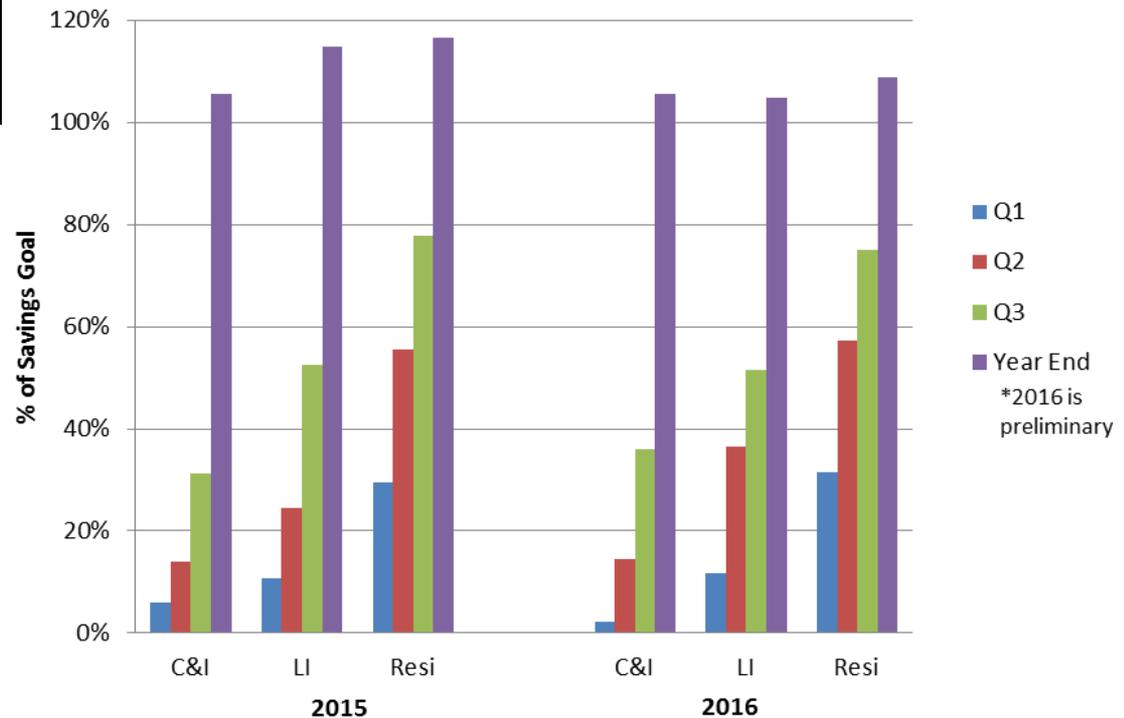


Gas Sector Results

Gas Quarter 4 Results

	MMBtu	Participation	Expenses
C&I	105.6%	156.0%	80.9%
IE	105.0%	154.9%	89.2%
Resi	108.9%	94.1%	90.3%
Total	107.0%	96.4%	87.5%

Progress Towards Gas Goals 2015 & 2016 by Quarter



Rhode Island Energy Efficiency

Fourth Quarter 2016 | National Grid

February 9, 2017

Overview

National Grid maintained momentum throughout the 2016 program year and has met its portfolio goal while exceeding many program goals. Preliminary year end results show that the Company achieved 107% of its electric energy savings goal, 101% of its electric demand savings goal, and 107% of its gas savings goal.

Residential programs finished strong in the fourth quarter. Overall 526 units were served by Residential New Construction program in 2016 and 51% of completed units achieved top tier savings levels. In the EnergyWise program, over 9,000 home energy assessments and 2,500 weatherization jobs were completed in 2016. In terms of programmatic improvements, the Company engaged with RI distributors and manufacturers to promote program offerings and benefits for the HVAC program and focused on LED promotion and dehumidifier recycling in the residential lighting and energy Star program.

The commercial and industrial programs also delivered strong results. The Company owned street lighting tariff was approved and went into effect on January 1st, 2017. There were also new developments in SEMP and CHP projects that will deliver considerable energy cost savings and benefits. The Company is working with a diverse group of stakeholders to develop the stretch code for the commercial and public sector to further promote energy efficiency, renewable energy systems, building commissioning, and other key aspects of sustainable building practices.

During the fourth quarter the Rhode Island Public Utilities Commission approved the 2017 Energy Efficiency Program Plan on December 20, 2016. Therefore, the efforts of the last few months have been focused on both meeting 2016 targets while laying groundwork for continued excellent performance in 2017. The Company is confident that it will be able to continue its momentum from 2016 into 2017, finishing strong with the 2015-2017 three-year period and creating even more benefits and energy savings to the State of Rhode Island.

2016 Program & Initiative Updates

Residential New Construction (RNC)

Residential New Construction had a strong fourth quarter:

- 226 units enrolled in the Program during the fourth quarter bringing total enrollments this year to 624, which is 113% of the overall goal.
- 208 units completed during the fourth quarter. 60 homes achieved Tier II and 5 achieved Tier III. 64% of the homes completed this quarter were income eligible.
- Overall 526 units were served by RNC in 2016, 51% achieved either Tier II or Tier III, 69% were new construction and 44% were income eligible. 185 homes (35%) were heated with a fuel other than gas, which is very different to past years when the rate was approximately 10%. 150 (81%) of these homes had electric heat.

RNC & SolarWise Collaboration

- SolarWise marketing materials and application forms were rolled out for the RNC Program during the fourth quarter. RNC participants building single family homes achieving Tier II, or higher, savings (a minimum of 31% savings over the program baseline, the User Defined Reference Home (UDRH)) will be eligible to apply for Solar Wise. RNC Program representatives have incorporated SolarWise materials into their outreach activities and enrollment process.

NESEA BuildingEnergy Pro Tour of RNC Project

- An RNC home in Wakefield was included in the NESEA Pro Tour series. Construction on the home, designed to be a Passive House, began spring of 2016. The event offered the opportunity to active residential construction that strategically uses standard building materials and techniques to meet the Passive House standard. Preliminary analysis has the home at a HERS Index of 30 and 4.75 kbtu/sq ft energy use.

Customer success story: Greenridge Apartments, Burrillville, RI

- A 96 unit development located in Burrillville's Pascoag Village enrolled in the RNC program during the fourth quarter. Greenridge Apartments, a NeighborWorks Blackstone River Valley project, was awarded federal low-income housing tax credits from RI Housing in 2015.
- This development project is expected to generate about 125 construction jobs over the three-year building process, and will help Burrillville reach its goal of ensuring that 10% of its housing stock is affordable. Some of the vacant deteriorating storefronts will also be replaced as part of this initiative which will help efforts to revitalize the center of Pascoag.

Income Eligible

- The Weatherization Technical Committee meeting in the fourth quarter addressed the Rhode Island Department of Human Services (DHS) Monitoring visit by DOE, Deferral, Lead Safe Work protocol changes in RI, ASHRAE 62.2 implementation and Minority Business Enterprise (MBE) reporting as a quarterly requirement.

- The RI WAP/IES Weatherization Bid process was completed in the fourth quarter producing an updated weatherization price and measure list for the first time in more than three years.
- National Grid Background Check program continued with an emphasis on specialty contractors (electricians, chimney service, disaster prep, etc.). The Rhode Island DHS has collaborated with CLEAResult and requires all contractors implementing DHS funded projects to meet the requirements of the National Grid Background Check program.
- CLEAResult worked with collaborative partners to develop and participate in a Heating System training designed to focus on heating systems found in RI (Hydronic and steam) as an add on to the BPI Heating system training.
- CLEAResult participated in the successful transition from Tri-Town and South County Community Action Program (CAP) to the new Tri-County CAP.

EnergyWise

- Over 9,000 home energy assessments and 2,500 weatherization jobs were completed in 2016.
- eSignLive became available to customers for electronic paperwork submission.
- Two new independent insulation contractors on-boarded in the fourth quarter.
- There were 806 heat loans completed through the fourth quarter totaling \$4.75 million loaned.

EnergyWise and Income Eligible Multifamily

- In the fourth quarter, the company released a Request for Proposals (RFP) for lead vendor services for the RI Income Eligible Multifamily, market rate EnergyWISE Multifamily, and Multifamily Commercial gas programs. Bidders will submit final proposals on February 15, 2017.
- Benchmarking for 75 income eligible buildings continued through the fourth quarter with final report to be issued in 2017.
- The Company's program manager spoke about the MA and RI multifamily programs at the Annual conference of the New England Chapter of the Community Associations Institute.
- Income Eligible electric had great performance in the fourth quarter at 113.7% of goal. Income Eligible gas made up a good deal of the lacking pipeline the Company was seeing earlier in the year with over 10,000 MMBTU of projects moving forward during the quarter. However, Income Eligible gas will still come in short of goal at year end.
- The Company expects a very strong finish to the year in commercial multifamily gas with preliminary year-end results coming in at 122% of goal.
- Market Rate Multifamily saw increased audit activity during the fourth quarter with very strong performance on savings especially in December. Preliminary year-end results show the Electric program exceeding goal at approximately 103%. Unfortunately, the Market Rate multifamily gas

program seems to have lost some momentum in early fourth quarter and even though we saw strong performance in December, the program is likely to finish short of goal at year end. The Company is looking into causes for this uncharacteristic underperformance on this gas program.

ENERGYSTAR® Lighting and Appliances

- There were robust LED lighting promotions at The Home Depot and Lowes in October. Target price of \$1/led was achieved with four-packs.
- Walgreens also promoted four-packs of LEDs in October.
- Educational events were staffed at Benny's in Seekonk in December.
- 70 dehumidifiers were collected for recycling at an October Eco Depot event in Johnston, RI in collaboration with the RI Resource Recovery Corporation (RIRCC). A second event in November collected an additional 39 units.



- ENERGY STAR version 4 specification for dehumidifiers went into effect on 10/25/16 which reduced qualifying units from 166 to 25.
- Pool pump upstream model was very successful with 338 units receiving incentives in 2016.

ENERGYSTAR® HVAC (Heating and Cooling)

- The Company engaged with RI distributors and manufacturers to promote program offerings and benefits. Technical information pertaining to the proper design and installation of heating systems and the complementary use of high efficiency pumps was provided.
- A training on high efficiency boilers and pumps at Taco Comfort Solutions was hosted in Cranston. Information on the pricing of high efficiency equipment versus standard efficiency equipment was provided to suppliers.

Home Energy Reports

- During the fourth quarter, the Home Energy Report program helped customers save 6,743 MWh and 312,448 Therms.
- Email engagement was same as last quarter, with an average email open rate of 35%. The click-through rate was slightly down from last quarter with a rate of 1.1% compared to 1.9% the previous quarter.
- In the fourth quarter, 12,670 unique customers logged into web energy insights page with a total of 60,365 page views.
- The fourth quarter customer experience consisted of the standard neighbor comparison, twelve-month comparison, various personalized

energy efficiency tips, and modules to promote National Grid energy efficiency programs.

Community Initiative

- The towns of Barrington and Bristol successfully completed their Energy Challenge campaigns. Barrington had 375 residents pledge to be more energy efficient and Bristol secured nearly 600 pledges. Both towns will be awarded \$5,000 grants to be used for energy efficient improvements on a municipal building.

Codes Initiative

- 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 caused a significant delay. The timeline for adoption of the energy code still remains uncertain but will likely occur by July 2017, with a 90 day concurrency.
- Due to this delay, 2015 IECC training was postponed and replaced with training efforts focused on areas of weak compliance, such as duct leakage and testing, as well as code compliance issues for specific residential and commercial projects through site visits, plans analysis and location trainings. In addition, several overviews of upcoming changes to the energy code in Rhode Island were also offered to help prepare code officials and design professionals.
- 12 classroom trainings were held in 2016 with 322 attendees (9 residential, with 256 attendees and 3 commercial with 66 attendees) and 9 location trainings were held with 146 attendees. 36% of attendees were code officials, 26% were vocation school students and 22% were builders and general contractors.
- One circuit rider call and one site visit took place during the quarter bringing total circuit rider calls to 33 for the year (26 residential and 7 commercial) and 11 total site visits (10 residential and 1 commercial).
- Stretch Code Support
 - Earlier this year the Rhode Island Governor's office issued a directive for the establishment of a high performance code that would be mandatory for publically funded projects and promoted with National Grid incentives for private construction.
 - The proposed code includes provisions encompassing energy efficiency, renewable energy systems, building commissioning, operations and maintenance, natural resources conservation, sustainable and local materials usage, water conservation, and indoor environmental quality.
 - The CCEI program is supporting the energy efficiency portion of this effort, with the State of Rhode Island Office of Energy Resources providing additional funding. The Company is working with three state agencies and a diverse group of stakeholders including National Grid, City of Providence representatives, code officials, a volunteer sustainability committee, and construction industry groups to develop a code that will facilitate high performance new

construction and major renovations for the commercial sector as well as public buildings.

- An initial outline of the code provisions has been approved and the first draft of the code will be delivered in late December.

Large Commercial New Construction

- Company owned street lighting tariff was approved on December 20th, 2016 and went into effect on January 1st, 2017.
- A large customer is adding 600,000 of warehouse space. They plan to install state of the art lighting and HVAC. This customer was persuaded to move forward with energy efficiency measures by touring a similar successful National Grid project in MA. A driving factor in their decision was the non-energy benefits of the solution (productivity increase, etc.) The project will save over 1.4 million kWh annually and is expected to be completed in 2017.

Large Commercial Retrofit

- Preliminary results show Large Commercial Retrofit achieved 105% of its electric goal and 101% of its gas goal.
- A globally known company who specializes in the electro-deposition of precious became involved in the Industrial Initiative in 2015 and is now actively involved in developing a multitude of comprehensive energy efficiency solutions that include their proposed Waste Water Treatment Plant, Compressed Air, Process Variable Speed Drives, Variable Speed Drives for HVAC, Heat Recovery, and Lighting.
- There was a SEMP with 931 MWh and 461,000 therms annual savings paid in December. This customer previously had very little participation in energy efficiency programs.
- Nine communities and one school applied for \$15,000,000 worth of funding for energy efficiency. This \$15,000,000 in loans translates into over \$1,000,000 in annual energy cost savings. National Grid will realize savings of approximately 6,000 MWh and 200,000 therms of energy saved. Funding to be released in June 2017.
- A major manufacturing company in East Providence post inspected their 1,250 KW CHP. Commissioning the project will commence in early summer. A RI college is entertaining a 1,300 KW CHP. Preliminary investigation is under way and looks promising.
- One customer started a 15 day steam trap survey. They plan to survey 750 traps and repairs are scheduled for June.

Small Business Direct Install

- The small business program ended on a strong note, with preliminary year-end results showing it achieved 102% of its electric goal and 121% of its gas goal.
- During the 4th quarter the SolarWise Program was launched for Small Business customers.

Pilots

- The Connected Solutions program has commitments to install all 500 Ecobee Wifi thermostats purchased for the Demand Response demonstration. There was a strong interest from previous EnergyWise participants.

Evaluation

- The C&I Custom Process study is moving forward with metering completed in some sites. Calculation and reporting are in process.
- Metering is complete for some sites for the C&I Custom HVAC study. Calculation and reporting are in process.
- The 2016 Jobs Study began at the end of the 4th Quarter. The Company anticipates the study will be completed in mid-to-late April, 2017.

Upcoming Events:

- There will be TEC-RI meetings for large commercial and industrial customers in late February, late March, and late April.

NATIONAL GRID ENERGY EFFICIENCY PROGRAMS IN RHODE ISLAND
Table 1. Summary of Electric 2016 Target and Preliminary 4th 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		
	Target	Year To Date	Pct Achieved	Target	Year To Date	Pct Achieved	Target	Year To Date	Pct Achieved	Budget	Year To Date	Pct Achieved		\$/kWh	Planned \$/kWh
Commercial and Industrial															
Large Commercial New Construction	1,540	1,697	110.2%	15,728	11,650	74.1%	209	185	88.5%	\$6,864.1	\$5,417.1	78.9%	191,876	\$ 0.028	\$ 0.030
Large Commercial Retrofit	13,906	11,930	85.8%	67,030	70,608	105.3%	3,540	2,589	73.1%	\$22,545.5	\$19,719.3	87.5%	790,202	\$ 0.025	\$ 0.053
Small Business Direct Install	2,507	2,310	92.2%	12,165	12,440	102.3%	905	740	81.8%	\$8,745.9	\$6,994.4	80.0%	138,824	\$ 0.050	\$ 0.085
Community Based Initiatives - C&I										\$49.6	\$27.0	54.5%			
Commercial Demonstration and R&D										\$296.2	\$49.7	16.8%			
Finance Costs										\$3,000.0	N/A	N/A			
SUBTOTAL	17,953	15,937	88.8%	94,922	94,697	99.8%	4,654	3,513	75.5%	\$41,501.2	\$32,207.5	77.6%	1,120,902	\$ 0.029	\$ 0.055
Subtotal with Finance										\$41,501.2	\$35,207.5	84.8%			
Income Eligible Residential															
Single Family - Income Eligible Services	554	855	154.4%	4,061	4,677	115.2%	2,500	3,016	120.6%	\$8,656.1	\$7,426.4	85.8%	56,702	\$ 0.131	\$ 0.213
Income Eligible Multifamily	117	183	156.0%	2,830	3,161	111.7%	5,100	5,366	105.2%	\$2,531.3	\$2,066.7	81.6%	26,919	\$ 0.077	\$ 0.102
SUBTOTAL	671	1,038	154.7%	6,891	7,837	113.7%	7,600	8,382	110.3%	\$11,187.4	\$9,493.1	84.9%	83,621	\$ 0.114	\$ 0.170
Non-Income Eligible Residential															
Residential New Construction	83	120	144.6%	1,213	1,397	115.1%	512	526	102.7%	\$736.9	\$656.8	89.1%	21,201	\$ 0.031	\$ 0.071
ENERGY STAR® HVAC	235	317	134.9%	1,011	1,007	99.6%	902	1,731	191.9%	\$1,219.0	\$1,169.8	96.0%	12,941	\$ 0.090	\$ 0.138
EnergyWise	1,701	2,214	130.1%	11,729	14,791	126.1%	8,890	9,567	107.6%	\$10,007.7	\$8,906.4	89.0%	136,162	\$ 0.065	\$ 0.095
EnergyWise Multifamily	185	246	132.9%	4,061	4,186	103.1%	4,400	7,783	176.9%	\$3,319.1	\$2,666.3	80.3%	41,239	\$ 0.065	\$ 0.095
ENERGY STAR® Lighting	5,049	6,690	132.5%	43,098	57,726	133.9%	233,992	431,739	184.5%	\$7,362.1	\$7,705.9	104.7%	561,936	\$ 0.014	\$ 0.030
Residential Consumer Products	696	726	104.4%	4,647	3,824	82.3%	14,095	25,171	178.6%	\$2,085.0	\$1,706.4	81.8%	26,411	\$ 0.065	\$ 0.080
Home Energy Reports	3,759	3,353	89.2%	32,186	28,710	89.2%	294,013	258,903	88.1%	\$2,796.7	\$2,722.4	97.3%	28,710	\$ 0.095	\$ 0.087
Energy Efficiency Educational Programs										\$40.1	\$60.0	149.8%			
Residential Demonstration and R&D										\$488.1	\$236.0	48.4%			
Community Based Initiatives - Residential										\$284.4	\$194.8	68.5%			
Comprehensive Marketing - Residential										\$534.0	\$534.8	100.2%			
SUBTOTAL	11,708	13,666	116.7%	97,947	111,640	114.0%	556,804	735,421	132.1%	\$28,873.1	\$26,559.8	92.0%	828,600	\$0.032	\$ 0.055
Regulatory															
EERMC										\$793.1	\$781.6	98.5%			
OER										\$793.1	\$790.6	99.7%			
RI Infrastructure Bank										\$1,441.5	N/A	N/A			
SUBTOTAL										\$3,027.7	\$1,572.1	51.9%			
Subtotal with RIIB										\$3,027.7	\$3,013.6	99.5%			
TOTAL	30,332	30,641	101.0%	199,760	214,175	107.2%	569,058	747,316	131.3%	\$ 84,589.4	\$ 69,832.6	82.6%	2,033,124	\$0.034	\$ 0.061
TOTAL With Finance and RIIB										\$ 84,589.4	\$ 74,274.1	87.8%	2,033,124	\$0.037	\$ 0.061
RGGI										\$ 948.4	\$453.8	47.8%			
System Reliability Procurement										\$ 441.1	\$329.3	74.7%			

NOTES
(1)(4)(7) Targets from Docket 4580 - Attachment 5, Table E-7 (electric)
(3) Pct Achieved is Column (2)/ Column (1).
An error was found in kW planning for the ENERGY STAR® Lighting program. The filed goal was 3,620 kW and the filed Residential Sector goal was 10,673 kW. The correct kW goal is reflected in the tables above. The Company will use the corrected Residential Sector kW goal for its year-end incentive calculation.
An error was found in kW planning for the multifamily programs. The filed EnergyWise Multifamily goal was 579 and the filed Residential Sector goal was 10,673 kW. The filed Income Eligible Multifamily goal was 366 kW and the filed Income Eligible Sector goal was 920 kW. The correct kW goals are reflected in the tables above. The Company will use the corrected Residential Sector and Income Eligible kW goals for its year-end incentive calculation.
(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 4580, Attachment 5 Table E-2 (electric).
EnergyWise Budget includes \$1M in RGGI funding for delivered fuels weatherization per Section IV.A.2 in Docket 4580.
(11) Year To Date Expenses include Implementation and Evaluation expenses.
\$3,000,000 in finance funds were transferred as authorized to the Large C&I Electric Revolving Loan Fund. Please see Table 3.
A payment of \$1,441,475 was made to RIIB; however, the expense only shows up in fund balance due to accounting protocols.
RGGI Expenses are counted separate as those funds were not part of the approved 2016 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 4581, not included in Expenses Total

NATIONAL GRID ENERGY EFFICIENCY PROGRAMS IN RHODE ISLAND
Table 2. Summary of Gas 2016 Target and Preliminary 4th 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
Commercial and Industrial												
Large Commercial New Construction	43,424	49,358	113.7%	152	156	102.2%	\$1,694.7	\$1,664.1	98.2%	906,590	\$ 1.84	\$ 2.99
Large Commercial Retrofit	133,613	135,431	101.4%	234	139	59.5%	\$4,871.1	\$3,739.7	76.8%	1,389,282	\$ 2.69	\$ 6.39
Small Business Direct Install	3,667	4,453	121.4%	133	48	36.0%	\$282.4	\$133.8	47.4%	24,714	\$ 5.41	\$ 8.29
Commercial & Industrial Multifamily	9,490	11,613	122.4%	1,611	2,982	185.1%	\$754.7	\$580.1	76.9%	171,725	\$ 3.38	\$ 6.52
Commercial Demonstration and R&D							\$97.3	\$16.4	16.8%			
Community Based Initiatives - C&I							\$6.4	\$3.4	52.9%			
Finance Costs							\$500.0	N/A	N/A			
SUBTOTAL	190,194	200,855	105.6%	2,131	3,325	156.0%	\$8,206.6	\$6,137.5	74.8%	2,492,311	\$ 2.46	\$ 5.32
<i>Subtotal With Finance</i>							\$8,206.6	\$6,637.5	80.9%	2,492,311	\$ 2.66	\$ 5.32
Income Eligible Residential												
Single Family - Income Eligible Services	9,368	15,090	161.1%	500	722	144.4%	\$3,585.5	\$3,602.1	100.5%	301,792	\$ 11.94	\$ 17.54
Income Eligible Multifamily	19,915	15,646	78.6%	3,000	4,701	156.7%	\$1,763.3	\$1,169.1	66.3%	225,854	\$ 5.18	\$ 5.80
SUBTOTAL	29,283	30,736	105.0%	3,500	5,423	154.9%	\$5,348.8	\$4,771.2	89.2%	527,646	\$ 9.04	\$ 9.85
Non-Income Eligible Residential												
EnergyWise	68,117	72,572	106.5%	2,710	3,252	120.0%	\$6,929.5	\$6,824.1	98.5%	1,593,083	\$ 4.28	\$ 5.45
Energy Star® HVAC	26,064	17,968	68.9%	2,099	1,408	67.0%	\$1,619.2	\$1,252.6	77.4%	301,112	\$ 4.16	\$ 10.19
EnergyWise Multifamily	17,208	13,377	77.7%	2,625	2,232	85.0%	\$1,978.6	\$1,372.4	69.4%	212,349	\$ 6.46	\$ 8.24
Home Energy Reports	53,989	77,129	142.9%	135,689	127,750	94.1%	\$436.6	\$453.6	103.9%	77,129	\$ 5.88	\$ 8.09
Residential New Construction	10,907	10,888	99.8%	375	341	90.9%	\$836.9	\$847.0	101.2%	185,720	\$ 4.56	\$ 4.61
Residential Demonstration and R&D							\$81.3	\$0.2	0.2%			
Comprehensive Marketing - Residential							\$69.8	\$51.2	73.3%			
Community Based Initiatives - Residential							\$25.8	\$19.1	74.0%			
SUBTOTAL	176,284	191,934	108.9%	143,498	134,983	94.1%	\$11,977.7	\$10,820.2	90.3%	2,369,393	\$ 4.57	\$ 6.65
Regulatory												
EERMC							\$233.3	\$246.8	105.8%			
OER							\$233.3	\$230.8	99.0%			
RI Infrastructure Bank							\$429.0	N/A	N/A			
SUBTOTAL							\$895.5	\$477.7	53.3%			
<i>Subtotal with RIIB</i>							\$895.5	\$906.6	101.2%			
TOTAL	395,760	423,525	107.0%	149,129	143,730	96.4%	\$ 26,428.6	\$ 22,206.5	84.0%	5,389,350	\$ 4.12	\$ 6.66
<i>Total with Finance and RIIB</i>							\$ 26,428.6	\$ 23,135.5	87.5%	5,389,350	\$ 4.29	\$ 6.66

NOTES
(1)(4) Targets from Docket 4580 - 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 q.
(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 4580, Attachment 6 Table G-2 (gas), adjusted to reflect "Docket 4580 – The Narragansett Electric Company, d/b/a National Grid 2016 Energy Efficiency Program Plan Transfer of Funds Request" approved by the Division of Public Utilities and Carriers (Division) on December 2, 2016.
(8) Year To Date Expenses include Implementation and Evaluation expenses.
\$500,000 in finance funds were transferred as authorized to the C&I Gas Revolving Loan Fund. Please see Table 3.
A payment of \$428,972 was made to RIIB; however, the expense only shows up in fund balance due to accounting protocols.
(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)	2016 Funds Available	\$14,115,728
(2)	2016 Loan budget	\$11,000,000
(3)	Committed	\$0
(4)	Paid	\$4,515,534
(5)	Number of loans	77
(6)	Participants	43
(7)	Savings (MWh)	11,226
(8)	Available	\$6,484,466

Small Business Electric Revolving Loan Fund

(1)	2016 Funds Available	\$2,242,136
(2)	2016 Loan Budget	\$2,870,000
(3)	Committed	
(4)	Paid	\$3,056,648
(6)	Participants	1,118
(7)	Savings (MWh)	12,440
(8)	Available	-\$186,648

Rhode Island Public Energy Partnership (RI PEP)

(9)	2016 Funds Available	\$993,365
(10)	Committed	\$0
(11)	Paid	\$544,772
(12)	Repayments	\$332,792
(13)	Participants	5
(14)	Savings (MWh)	1,388
(15)	Available	\$781,385

C&I Gas Revolving Loan Fund

(1)	2016 Funds Available	\$1,682,732
(2)	2016 Loan budget	\$1,600,000
(3)	Committed	\$0
(4)	Paid	\$891,992
(6)	Participants	13
(7)	Savings (MMBtu)	58,787
(8)	Available	\$708,008

Notes

- 1 Amount available as of January 1, 2016, including 2016 fund injections detailed in Table E-10 and G-10. The C&I Gas Loan Fund also includes the injection of \$300,000 as approved by the EE Collaborative on March 21, 2016.
- 2 Budget adopted by Sales Team for 2016 operations. Budget includes projections of repayments made during 2016.
- 3 As of December 31, 2016
- 4 As of December 31, 2016
- 5 As of December 31, 2016
- 6 Unique customer names for large business and customer accounts for small business (not adjusted for net-to-gross).
- 7 As of December 31, 2016
- 8 Available funds as of September 30, 2016, not including repayments.
- 9 Funds available as of January 1, 2016
- 10 As of December 31, 2016
- 11 As of December 31, 2016
- 12 As of December 31, 2016
- 13 As of December 31, 2016 - 5 entities with 19 applications.
- 14 As of December 31, 2016
- 15 Available funds as of December 31, 2016

Table 4
2016 RGGI Budget and Spend

Initiative	2016 Budget	Spend
RI Public Energy Partnership Incentives	\$ 517,340	\$ 433,461
Agricultural Delivered Fuels	\$ 255,446	\$ 15,331
Heat Pump Study	\$ 175,585	\$ 4,988
Total	\$ 948,371	\$ 453,779

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 2016, 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.

EERMC 2017 Budget - DRAFT

Last Updated 1/31/2017

Income	
2017 Client Fund Starting balance	\$ 320,411
Unspent Fund balance from 2016	\$126,308.69
2016 EERMC rollover to Fund	\$194,102.76
SBC - Electric (2016)	\$ 816,300
SBC - Gas (2016)	\$ 304,300
TOTAL INCOME	\$ 1,441,011

Expenses to Main Account	Budget
	CY 2017
Consultant Services	\$ 887,830.00
Core Allocation	\$ 759,350.00
Travel/Expenses	\$ 19,640.00
Optional items*	\$ 108,840.00
Legal Counsel	\$ 25,000.00
Annual Report	\$ 5,000.00
Council Travel	\$ 500.00
Public Education	\$ 75,000.00
Stretch Code Development (Residential)	\$ 15,000.00
EERMC Website - design vendor	\$ 30,000.00
Subtotal	\$ 1,038,330.00

Unallocated from Main Account	\$ 82,270.00
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Expenses to Client Fund	Budget
	CY 2017
Finance Study, Dunskey	\$ 90,000.00
2017 Energy Expo	\$ 40,000.00
Stretch Code Development (Commercial)	\$ 50,260.00
Subtotal	\$ 180,260.00

Unallocated from Client Fund	\$ 140,151.45
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TOTAL Expenses	\$ 1,218,590.00
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Unallocated	\$ 222,421.45
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EERMC 2016 Budget - Approved

Income	
2015 Carry Over - Client Fund	\$ 265,430
SBC - Electric (2016)	\$ 793,100
SBC - Gas (2016)	\$ 233,300
TOTAL INCOME	\$ 1,291,830

Expenses to Main Account	Budget
	CY 2016
Consultant Services	\$ 830,450.00
Core allocation	\$ 770,450.00
Travel/Expenses	\$ 5,000.00
Supplemental Budget	\$ 55,000.00
Legal Counsel	\$ 40,000.00
Communications	\$ 15,000.00
Council Travel	\$ 500.00
Energy Expo 2016	\$ 50,000.00
EERMC Interns	\$ -
Member Retreat	\$ 1,000.00
Stretch Code Development (Commercial)	\$ 50,260.00
Subtotal	\$ 987,210.00

Expenses to Client Fund	Budget
	CY 2016
Finance Study, Dunskey	\$ 70,000.00
Energy Expo 2015	\$ 50,000.00
Synapse - Demand Response	\$ 20,000.00
Subtotal	\$ 140,000.00

TOTALS	\$ 1,127,210.00
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* Website set-up and maintenance; Teaching & Learning"; Intern; DR



STATE OF RHODE ISLAND
**ENERGY EFFICIENCY &
RESOURCE MANAGEMENT COUNCIL**

Energy Expo Metrics

EERMC Meeting, February 16, 2017

Metric
1) # of attendees
2) # of energy audit sign-ups
3) # of National Grid bill insert coupons redeemed
4) # of energy efficiency-related vendors/exhibitors
5) # of renewable energy vendors/exhibitors
6) # of efficiency kits sold
7) # of LEDs sold
8) # of advanced power strips sold
9) # of HVAC rebates filed 2 months after the Expo
10) # of refrigerators recycled within 2 months after the Expo

Primary EERMC Goal for the Expo: to help teach the public about energy efficiency and to encourage them to take advantage of available energy efficiency programs.



“Lead by Example”

Energy Initiative

George Sfinarolakis



STATE OF RHODE ISLAND

**OFFICE OF
ENERGY RESOURCES**

February 16, 2017

Executive Order

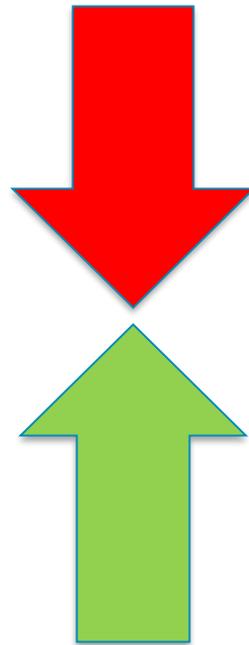


What is LBE?

Practice What You Preach

What is LBE?

Energy Consumption



Renewable Energy

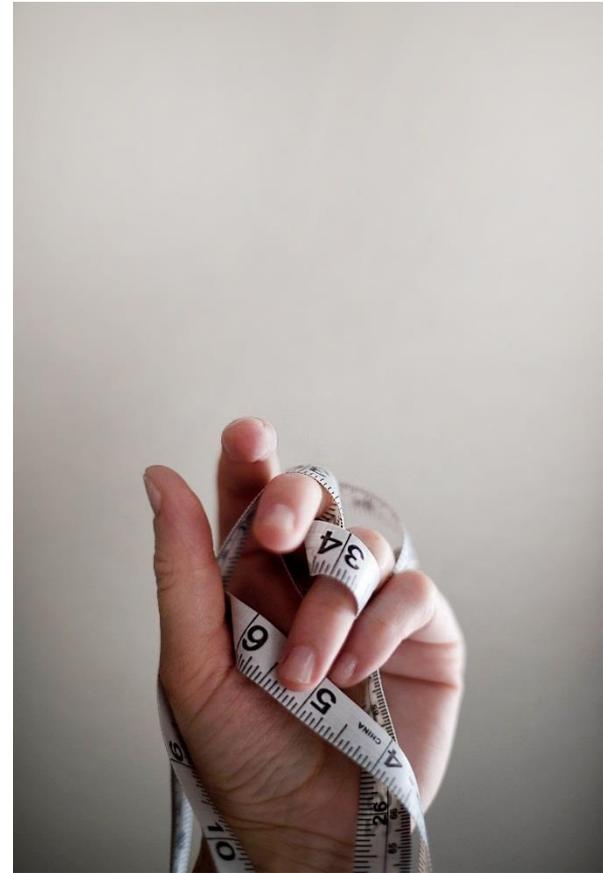
Governor Raimondo's "Lead by Example" Executive Order 15-17

LBE EO sets numerous goals including:

1. Achieve at least 10% reduction in energy consumption (electric and natural gas) below 2014 levels by 2019
2. Procure 100% State government electric consumption from renewables by 2025
3. Ensure a minimum of 25% new light-duty fleet purchases or leases are from zero-emission vehicles by 2025
4. Establish a voluntary stretch building code by 2017
5. Post State energy usage data publically

Energy Data Management

You can't
manage what
you can't
measure.



Energy Procurement

- Electricity Reverse Auction - Oct 2015
- Natural Gas Reverse Auction - August 2016

Purchasing Mechanisms

- MPA 508 - Energy Efficiency Turn Key Services
- MPA 509 - Furnish and Install EV Charging Station
- CR 44 – Solar PV and Wind Turbine System Installation Services

Energy Efficiency Projects

Strategic Energy Management Plan

National Grid

Energy Efficiency Projects



- Investment \$5.5 million
- Energy savings 47%
- Annual Savings over \$1.1 million
- Payback period 5.1 years

Renewable Efficiency Projects



3 Buildings:

- Powers
- DOT
- Canon

Total Cost:
\$750,000

Payback: 7 years

RE Target 2017

- 2 MW Rooftop Installations
- 10 MW Ground-mounted (PPA)

Training and Recognition Program

- Building Operator Certification (BOC)
- Energy Awards – April 2017

First Year's Achievements

- 20% of electricity consumed by State facilities comes from renewable energy resources
- Reduced 2016 energy consumption across State facilities by 8.3% compared to 2014