



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

MEETING AGENDA

Thursday, February 11, 2016

3:30 PM - 5:30 PM

Conference Room B, 2nd Floor

Department of Administration, One Capitol Hill, Providence, RI

1. Call to Order

2. Approval of January Meeting Minutes

3. Executive Director Report (10 min)

- a) Legislative Update - *Chris Kearns will give an update on legislation related to EERMC work.*

4. Executive Committee Report (10 min)

5. Policy and Planning Issues

- a) Savings Targets Update (15 min)

The consultant team will update the Council on the status of savings targets development, including recent work on trend analysis and key driver analysis. A proposed process for procuring expert services, if needed to support research and analysis, will also be presented.

- b) Presentation on Regional Greenhouse Gas Initiative February 2016 Allocation Plan (20 min)

Nick Ucci will present OER's proposed RGGI allocation plan, which is the first of two in 2016. The consultant team will review the Council's role in providing feedback on the plan and relate its components to least cost procurement.

- c) Discussion of EERMC role on planned RI Public Utilities Commission (PUC) docket "Review into Changing Distribution System" (10 minutes)

The consultant team will present on the planned docket and how the EERMC's perspective can support the development of the docket's scope. The consultant team will propose elements of a scope for the Council's consideration and potential resulting recommendation to the PUC. The consultant team, if directed by the Council, would finalize and submit the scope to the PUC by the February 19, 2016 deadline in coordination with the Council's counsel.

6. General Updates on Energy Efficiency Programs and System Reliability Procurement

- a) Presentation on Rhode Island Public Energy Partnership Results (20 min)
b) Presentation on National Grid's 2015 4th Quarter Program Results (20 min)

7. Future Meeting Topics (10 min)

The Council will brainstorm and map key topics for 2016 Council meetings.

8. Public Comment

9. Adjournment

EERMC CONSULTANT TEAM



Memorandum

To: RI Energy Efficiency & Resource Management Council (EERMC)
From: EERMC Consultant Team (C-Team)
Date: February 9, 2016
Subject: Regional Greenhouse Gas Initiative proposed allocation

Relevance of Topic	In RI § 23-82-6 regarding the Regional Greenhouse Gas Initiative, the RI Office of Energy Resources (OER) is designated to develop proposals for use of auction proceeds in consultation with the EERMC.
Content of memo	The OER has drafted the current proceeds proposal, and the C-Team presents to the EERMC an overview of RGGI and how the current proposal aligns with the objectives of Least Cost Procurement and other EERMC objectives.
Expected Outcome	This memo is aimed at providing context and discussion points in advance of the OER presentation on RGGI at the February 11 EERMC meeting. The EERMC will have the opportunity to review, comment and provide advisement on the proceeds proposal at the meeting and/or consider other avenues for input.

EERMC & Regional Greenhouse Gas Initiative allocations

The Regional Greenhouse Gas Initiative (RGGI) is a cooperative effort among the states of Connecticut, Delaware, Maryland, Massachusetts, New Hampshire, Maine, New York, Rhode Island and Vermont. Together, these states cap and will reduce power sector CO₂ emissions by setting allowances and establishing participation in regional CO₂ allowance allocation auctions. Regulated power plants can use CO₂ allowances issued by the participating states to demonstrate compliance with an individual state program. In aggregate, the states function as a single regional compliance market for CO₂ emissions.

According to RI § 23-82-6, the legislative purpose of the RGGI is *“to maximize the state’s contribution to lowering carbon emissions while minimizing impacts on electric system reliability and costs to Rhode Island power consumers over the long term. Adoption and use of cost-effective energy-efficient products and programs and the strategic use of low and zero carbon generation are the best means to achieve these goals.”*

Historically, Rhode Island has issued annual plans for the RGGI allocations through OER via a process of 30-day public notice and comment prior to finalization of the plan and allocation of auction funds. The RI Department of Environmental Management (DEM) and EERMC have had a role in these plans

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to varying degrees over the years. The level of funding generated by RGGI has increased significantly over the last few years, and OER is currently planning to propose auction allocations twice a year.

Specific guidance regarding the use of auction or sale proceeds is detailed in:

<http://www.energy.ri.gov/documents/rggi/RGGI%20Rules%20and%20Regs.pdf>

Highlights from this document represent that:

The proceeds from the auction or sale of the allowances shall be used for the benefit of energy consumers through investment in the most cost-effective available projects that can reduce long-term consumer energy demands and costs. Such proceeds may be used only for the following purposes (and reasonable associated administrative costs) in a proportion to be determined annually by the OER in consultation with the EERMC and DEM:

(1) Promotion of cost-effective energy efficiency and conservation in order to achieve the purposes of § 39-1-27.7 entitled "System Reliability and Least Cost Procurement";

(2) Promotion of cost-effective renewable non-carbon emitting energy technologies in Rhode Island as defined in § 39-26-5 and to achieve the purposes of chapter 39-26 entitled "Renewable Energy Standard";

(3) Cost-effective direct rate relief for consumers;

(4) Direct rate relief for low-income consumers;

Recent RGGI allocations have consistently provided a significant portion of funds to support the annual Energy Efficiency Program Plans (EEPP) filed by National Grid. This has had a direct impact on the amount of system benefit charge to ratepayers to support budgets required to meet the approved cost-effective programs. For the 2016 EEPP, \$3.42 million was allocated in August 2015. Additionally, strategic allocations have also been aimed at catalyzing participation in energy efficiency programs at the state and municipal government level, including support of LED streetlight conversions across state highways (in partnership with the Department of Transportation) and incentive and financing support to the RI Public Energy Partnership (RIPEP) program for public buildings. The catalyzing effect comes from providing supplemental incentives to National Grid incentive offers to support early adopters. This generally accelerates the pace of change; and supports the likelihood of deeper energy savings being pursued. The support of this sector has widespread benefits to all Rhode Islanders since it reduces governmental costs borne by taxpayers, freeing up public funds to be reallocated to other needs. Other areas served by RGGI funds include significant contributions to weatherization efforts for delivered fuel (oil/propane) homes. These have been delivered via the EnergyWise program. Funds have also been made available to support energy efficiency in areas not served by National Grid (Block Island and Pascoag Utility District).

Combined these investments have provided cost-effective energy efficiency support that directly or indirectly impacts nearly all Rhode Islanders.

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Current Proposed Proceeds Allocation

The OER will present to the Council its RGGI plans at the February 11, 2016 EERMC meeting. The following preview has been provided by OER:

Background:

- This RGGI Allocation Plan will be comprised of proceeds from Auctions 29 (Sept. 2015) and 30 (Dec. 2015). Net proceeds for programmatic functions total \$6.5 million.
- OER is currently drafting the Plan document, which will be posted for 30 days public comment in mid-February.
- The next State RGGI allocation plan is tentatively scheduled for issuance in August 2016.

Proposed Allocation Line Items:

- *Lead by Example – State Facilities:* \$4.4 million will be allocated to support the integration and implementation of EE and renewable investments at state facilities. This allocation is consistent with Governor Raimondo’s recent Executive Order to reduce state energy costs and expand renewable options across state facilities. OER has previously allocated RGGI funds for this same purpose and has successfully identified and/or committed these dollars to support projects that reduce energy consumption and costs for state agencies, such as LED lighting retrofit projects at DEM parks and DOT garages, and working with DOT to convert all highway streetlights to LEDs. OER has also developed a critical tool (MPA508) to facilitate the procurement of energy services to implement EE projects of various sizes and cost profiles across the public sector. RGGI dollars will be leveraged with existing utility-administered incentives where possible. Energy efficiency projects funded with RGGI will also support achievement of energy saving goals established as part of the state’s least cost procurement and energy efficiency plans.
- *Lead by Example – Homeless/Behavioral Health:* Similar to the allocation above, OER will direct \$300,000 to support energy efficiency and/or renewable energy projects to the State’s homeless and behavioral health facilities. OER recently met with representatives from the state Office of Housing & Community Development (including the Housing Commission Coordinator) to think strategically about reducing energy consumption and costs for this vulnerable population living in facilities supported by state dollars. OER proposes to set these dollars aside to implement clean energy projects specific to this important and often underserved sector.
- *Delivered Fuels Energy Efficiency – \$1m:* this allocation is consistent with past allocations to support the delivery of energy efficiency services to delivered fuels customers underserved by existing EE programs that target electric and gas customers. These dollars would be used in coordination with existing utility-administered programs and incentives to better serve customers that heat with oil and propane.

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- *Solarize*: OER proposes to invest an additional \$300,000 of RGGI proceeds to further support the expansion of our community-based Solarize program. Based upon our experience, we believe this allocation can support the deployment of Solarize campaigns across 5 additional communities or groups of communities by the end of 2016 and 5 more in early 2017.
- *Microgrids -- \$500k*: this allocation will support the implementation of a demonstration project to deploy EE and distributed resources (renewable, storage, etc.) for resilient energy surety at critical State facilities (i.e. EOC, Army National Guard, etc.). Currently, OER is implementing a CDBG-funded grant project to identify microgrid potential across vulnerable communities and critical infrastructure locations throughout the state. These RGGI dollars will support supplemental and complementary work that will help identify optimal economic and environmental benefits from 24/7 operation of distributed energy resources under normal conditions, while providing grid-independent mission critical functionality during prolonged power outages. Moreover, the availability of RGGI dollars to support microgrid work will facilitate OER's ability to seek and leverage current/future external funding sources on microgrid development and deployment.
- Additionally, OER will *reallocate* \$125,000 from the State's 2014 RGGI Allocation Plan to support Public Sector Charging Stations & Electric Vehicles (EVs). These dollars will be used to support the deployment of EV charging infrastructure across public sector facilities, as well as help municipalities/state agencies pay for the cost differential between traditional fleet vehicles and EVs. OER has previously allocated RGGI funds for this purpose and its program to implement these efforts will be rolled out shortly. Importantly, any new electric load would need to be offset by recent/pending EE and/or renewable projects. Funding will come from a previously-proposed and approved allocation that tried to achieve much the same, only was directed toward private sector institutions. Those dollars were made available to the marketplace, but left underutilized.

The C-Team believes these proposed investments support the general intent of Least Cost Procurement and are in line with the regulations guiding RGGI use of funds.

EERMC CONSULTANT TEAM



Memorandum

To: RI Energy Efficiency & Resource Management Council (EERMC)
From: EERMC Consultant Team (C-Team)
Date: February 9, 2016
Subject: EERMC Input to Public Utilities Commission (PUC) Proceeding on Distribution System

Relevance of Topic	In reaction to Docket #4568, the Rate Design proceeding, and the recent presentation on and release of the System Integration Rhode Island (SIRI) Report, the PUC staff has issued a “Request for Comments on a Docket to Investigate the Changing Distribution System.” The EERMC’s input on the proceeding could be very relevant to further evolution of Least Cost Procurement in Rhode Island, with potential impact on the target-setting effort, the SIRI effort, and the next 3-Year Least Cost Procurement Plan.
Content of Memo	The Memo provides a very quick summary of the PUC request, and suggests three topics on which the EERMC might want to provide input.
Expected Outcome	EERMC will need to decide at the February 11 Council meeting whether to authorize the C-Team to submit comments on the EERMC’s behalf, in coordination with Council counsel, by the February 19, 2016 deadline.

Memorandum and Invitation Issued by PUC.

The Letter from the PUC Staff is attached.

The C-Team has reviewed the Memorandum and finds this is a significant undertaking by the PUC and represents an important opportunity to address many of the issues addressed in both Docket #4568 and in the SIRI effort in a more deliberative and wide-ranging format.

We have talked with OER staff that has been in contact with the PUC staff in regard to this proceeding. We propose to talk with other parties (through SIRI connections, and Docket 4568 participants) who will have a strong interest in this proceeding.

We believe it would be helpful for the EERMC to both participate in discussions about this upcoming Docket, and to file a response to the “Invitation to Comment” if there is a need to represent the particular focus of the EERMC.

We propose the following principles to guide any input we might submit on behalf of the EERMC:

- The proceeding should maintain a strong and consistent focus on the principles of Least Cost Procurement and System Reliability as articulated in Rhode Island legislation.

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- Consideration of the full range of costs and benefits of all services, activities and options for providing energy service should be fairly considered on a consistent basis.
- Incentives for guiding utility investment and providing customer benefit should reflect both of the first two policy principles.

If so directed, the C-Team will formalize these principles, along with modifications and/or additions provided at the Council meeting and work with the Council's counsel to submit the comments to the PUC by February 19, 2016.



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

MEETING MINUTES

Thursday, February 11, 2016

3:30 PM - 5:30 PM

Conference Room B, 2nd Floor

Department of Administration, One Capitol Hill, Providence, RI

- Members Present:** Abigail Anthony, Bob Bacon, Joe Cirillo, Roberta Fagan, Jennifer Hutchinson, Michael McAteer, Joe Newsome, Chris Powell, Betsy Stubblefield Loucks, Karen Verrengia
- Members Absent:** Marion Gold, Shigeru Osada, Diane Williamson
- Consultants Present:** Mike Guerard, Scudder Parker
- OER Staff Present:** Chris Kearns, Danny Musher, Rachel Sholly, Nick Ucci
- Others Present:** Leah Bamberger, Karen Bradbury, Kat Burnham, Craig Johnson, Mark Kravatz, Courtney Lane, Jeremy Newberger, Celia O'Brien, Brigid Ryan, Rob Sherwood, Belinda Wong, Chon Meng Wong, Muxi Yang

1. Call to Order

Chairman Chris Powell called the meeting to order at 3:33 PM.

2. Approval of January Meeting Minutes

Karen Verrengia made a motion to approve the January meeting minutes. Joe Cirillo seconded and all approved.

3. Executive Director Report

a) *Legislative Update*

Chris Kearns of the Office of Energy Resources (OER) gave a legislative update. Mr. Kearns reported that the only piece of legislation related to EERMC work that has been introduced to date is a piece that would enhance appliance standards in the state. National Grid, Northeast Energy Efficiency Partnership (NEEP) and the Office of Energy Resources (OER) are working together to move the legislation forward.

4. Executive Committee Report

Abigail Anthony gave an overview of the items discussed at last week's Executive Committee meeting that were not on this meeting's agenda. She reported that she and a small group visited National Grid's Sustainability Hub in Worcester, MA. The Hub highlights the use of energy efficiency in a home, rooftop solar and electric vehicles, and also provides a way for the public to interface with the utility. The Executive Committee also heard from Nick Ucci on regional successes and the Block Island Saves Program. Mr. Ucci elaborated, noting that the Block Island pre-pilot was successful and the program will be opened to all Block Island residents and businesses in 2016. The Executive Committee also discussed Dunsky's finance work, which is focused on reviewing Commercial PACE (C-PACE) as well as Grid's revolving loan and heat loan programs. The Committee also touched on a question raised by Betsy

Stubblefield Loucks regarding the EERMC's role in resource diversification efforts. Finally, the Committee discussed open meetings rules.

5. Policy and Planning Issues

a) Savings Targets Update

The consultant team presented on the status of savings targets development, including recent work on trend analysis and key driver analysis that will inform targets development. Scudder Parker reminded the Council that the savings targets are presented in September and form the basis for the three-year planning process and standards updating process. Mike Guerard said that the important thing to confirm is that historically the Council has filed the targets on September 1st, but that is not a legislated deadline. The plan is to have a final draft ready for approval at the Council's September meeting, which would allow time to file by the end of September. The consultant team is starting by reviewing jurisdictional comparisons, the KEMA study update and other regional potential studies. They are also analyzing trends and planning a stakeholder feedback session for April or May. (See attached)

Jeremy Newberger pointed out that these targets assume the same level of over-performance for 2016 as 2015, which is probably not a reasonable expectation. With regard to key driver analysis, Mr. Guerard said that the consultant team might recommend that some of the unallocated 2016 budget be used to bring on experts to focus on a couple critical areas that might be beyond the consultant team's bandwidth. Chairman Powell asked how new codes will effect targets setting. Mr. Guerard said that time will be allowed to come into compliance and National Grid's code compliance efforts are already laying the groundwork. Michael McAteer noted that these additional savings will need to be achieved through more synergistic work and that the way efficiency is acquired will change and codes will be a significant influencer. Scudder Parker noted that linear LED lights have potential, which is an example of one of the ways in which additional savings can be uncovered.

Mr. Parker explained that the least cost procurement law says that the EERMC should look at effecting the time of use so that people and businesses are able to reduce their energy use at peak times is another benefit that efficiency programs and least cost procurement should be supporting. We do that now in a very simplified way by the capacity savings that are generated by the efficiency measures that are put in. This business of demand management, while it shares some of the same challenges, is a very different process than efficiency. The consultant team is trying to understand how the regional markets work, who the players in the regional markets are, if there are ways those markets could be adapted to provide more benefits to ratepayers. This is one area that may require additional expertise.

b) Presentation on Regional Greenhouse Gas Initiative February 2016 Allocation Plan

Chairman Powell explained that the OER is responsible for disbursement of Regional Greenhouse Gas Initiative (RGGI) proceeds and is required to consult with the EERMC and the Department of Environmental Management (DEM) on how the funds will be spent. Ms. Anthony added that the Council's job today is to listen to the proposed Plan and then it can provide feedback verbally or in written form. Nick Ucci walked through the memo (see attached). OER intends to get the Plan out for public comment within a week. There will be a 30-day public comment period ending in a public hearing.

Joe Newsome noted that most of the funds are proposed to be allocated to state facilities and asked how that coincides with the legislated criteria for use of RGGI funds, which includes helping all customers. Mr. Ucci said that those are eligible avenues to invest these funds but they are not requirements. Investing in state facilities reduces operational costs which benefits all Rhode Islanders. Mr. Newsome felt that allocating such a large portion of the available funds is a bit contrary to the intent expressed in the RGGI law. Mr. Ucci reminded the Council that in the last RGGI Plan, OER allocated a significant amount of funds to reduce the system benefit charge (SBC), which provided relief to all users. The Plans OER puts forward are always consistent with the law and it is important to note that it is the

only pot of funds that the state has to invest in efficiency. There are a lot of competing interests and OER does its best to be cognizant of those and to support the goals of least cost procurement, including the needs of the public sector.

Betsy Stubblefield Loucks requested a summary of how RGGI funds have been spent over the last few years. Mr. Ucci noted that all the Plans are available on OER's website. Ms. Anthony said that RI has historically seen some of the highest value from the RGGI program because of its consistent reinvestment of proceeds back into efficiency. In the past, funds have gone directly to efficiency programs. Ms. Anthony said that she does not see this Plan as inconsistent with Least Cost Procurement. These savings would still need to be procured, but they would have to be paid for with SBC funds. Chairman Powell noted that spending \$4.4 million on state facilities will produce real savings and will result in taxpayer relief. Mr. McAteer said that state facilities are probably some of the least efficient buildings out there. National Grid is embarking on a Strategic Energy Management Plan for state facilities and the biggest conundrum has been that there has not been any money to do significant upgrades. Now, taxpayers will no longer be paying for buildings that are operating at 60% efficiency.

Mr. Newberger asked, with regard to the state allocations, if the OER anticipates a partnership with National Grid similar to that of the Rhode Island Public Energy Partnership. Mr. Ucci said that question is being explored along with other questions including: How can we execute projects quickly? How can we work with agencies on longer term planning? What tools can we give them? Internal team has already identified more projects than can be funded than what this allocations allow. Mr. Newberger said that if there is a role for National Grid, it will be important to make sure National Grid is comfortable with that role and how it is language in the Plan.

Mr. Cirillo noted that since 1977, Rhode Island state facilities were construction compliant with codes but energy code was not always around. Leah Bamberger from the City of Providence felt that using RGGI funds to support state projects while municipalities are being asked to borrow money through the Efficient Buildings Fund is not Leading by Example.

c) *Discussion of EERMC role on planned RI Public Utilities Commission (PUC) docket "Review into Changing Distribution System"*

Mr. Parker and Mr. Musher explained that the efforts of the Systems Integration RI (SIRI) working group have in part prompted the Public Utilities Commission (PUC) to develop this proposal to explore the evolution of the utility distribution system. The PUC is looking for feedback on what it is intending to do and the framing that takes place for the proceeding itself. The PUC memo says that a single set of measurements would be developed by which all future programs funded through rates can be examined for reasonableness including whether differences between program incentives are reasonable and whether the decision to implement a utility activity is reasonable. How do all of these programs fit together and maintain a consistent approach in how customers get served. The consultant team memo outlines three key points (see attached). The consultant team offered to propose elements of a scope for the Council's consideration and potentially resulting in recommendations to the PUC. If directed by the Council, the consultant team would finalize and submit the scope to the PUC by the February 19, 2016 deadline in coordination with the Council's attorney. **Ms. Anthony made a motion to authorize the consultant team to submit comments and recommendations in response to the PUC request. Ms. Verrengia seconded and all approved.**

6. General Updates on Energy Efficiency Programs and System Reliability Procurement

a) *Presentation on Rhode Island Public Energy Partnership Results*

Rachel Sholly presented the results of the Rhode Island Public Energy Partnership (RIPEP) (see attached).

Ms. Stubblefield Loucks asked if communities that participated usually included both the municipality and school district. Ms. Sholly was not sure but said that municipalities and schools often operate very independently so the overlap might not be as large as one would expect.

Mr. McAteer said that RIPEP has been an exemplary performance by the OER. He also thanked the EERMC consultants for their critical involvement. The goals were very ambitious and were still exceeded. This initiative proved that the technical capability to go deep and broad is there, but it requires the tactical approach of OER and National Grid working together. Ms. Sholly agreed, adding that almost all of the applications received for the Efficient Buildings Fund (EBF) have estimated reductions of 20% or more, the highest being 55%. Additionally, RIPEP savings were limited by National Grid's 5-year on-bill repayment program, while the EBF's 15-20 year loan terms will allow for deeper savings.

Mr. Parker noted that these are tough sectors and the partnership between National Grid and OER is part of what made this pretty dramatic movement into a market sector possible, which is a sign of a mature efficiency program. Ms. Verrengia said that she hopes the works continues, especially the student engagement piece in partnership with the University of Rhode Island. Mr. Newsome asked if the EBF team did any outreach to public housing entities. Ms. Sholly said that they were not specifically targeted, but that the team plans to do more outreach to the quasi-governmental agencies during the next round.

b) *Presentation on National Grid's 2015 4th Quarter Program Results*

Courtney Lane presented the results (see attached). The spend amounts are final, but the savings amounts will not be final until May 1st after all the numbers are checked for the final report filing. Mr. Newsome asked why the customer participation result for the income eligible multifamily line item was only 56% of the target. Ms. Lane explained that there was a planning error and that the actual planned participation should have been about half of what it was. Ms. Anthony asked what this success can be attributed to. Ms. Lane said that there was a lot of momentum from the previous year; this was the second year for several vendors and marketing and outreach helped to carry momentum forward. These trends are expected to continue into 2016.

Mr. Newberger noted that in 2014, National Grid only counted 90% of the Toray savings and counted the last 10% in 2015, which created a savings bonus. Ms. Anthony wondered if goals are be set too low or if markets really starting to move. Ms. Lane said that this will be discussed internally at National Grid. Mr. McAteer added that upstream lighting may account for a lot of new savings. Chairman Powell recalled a previous discussion about annual savings versus lifetime savings and felt that this should come into play strategically. One-year targets are great but the focus should also be on the lifetime savings. RGGI funds have been offsetting costs and allowing for longer term measures. Mr. Parker felt that the work of RIPEP was a driver that helped move into new market sectors, and the RI Infrastructure Bank programs will do the same.

7. Future Meeting Topics

Ms. Stubblefield Loucks explained there was a discussion at the Executive Committee meeting about unallocated funds in the budget that could be used for research to support the targets setting process. She had also raised the question about the role of the Council with regard to resource diversification and energy conservation, observing that the Council talks a lot about energy efficiency but less about renewables. This led to a conversation about what things the Council should know about and what presentations it might want to request to make sure it is doing a good job as Council. She thought one such item would be a summary of what programs are going on in the Council's name. Another would be to learn more about whether more research is needed to help identify opportunities for renewables in RI. Mr. Musher said that there is a lot of ongoing work around renewable energy and resource diversification in the state. A lot of the work and structure of the EERMC is guided by the Least Cost Procurement (LCP) standards, which are updated every three years and might be an appropriate agenda

item. Chairman Powell noted that the EERMC was supposed to meet regularly with the Renewable Energy Coordinating Board, which has now been dissolved. Mr. Musher added that Ken Payne, the Chair of the Distributed Generation (DG) Board, expressed interest in exploring a similar collaboration between the DG Board and the EERMC. He added that while LCP does include renewable energy and related language, it is an older law and now there are more laws that focus more on renewables. The consultant team and OER will facilitate a discussion with the Executive Committee on next steps. Mr. Musher will be presenting to the DG Board on systems integration on Monday and will work with Sue AnderBois, a DG Board member, to explore a collaboration.

8. Public Comment

Brigid Ryan of Emerald Cities said that she experienced RIPEP in her capacity as a member of the Newport Energy Commission and it was very helpful to have someone to take Newport's energy data and synthesize it. There is still an opportunity to help municipalities increase capacity around project development, looking at projects that go beyond just available rebates. Additionally, Emerald Cities is working to bring a new multifamily program to RI which addresses financing issues in the low income sector and could be applied to public housing authorities.

9. Adjournment

Mr. Newsome made a motion to adjourn. Bob Bacon seconded and all approved.

Rhode Island Energy Efficiency

Fourth Quarter 2015 | National Grid

February 4th, 2016

Overview

National Grid maintained momentum throughout the 2015 program year and has met its portfolio goal while exceeding many program goals. Preliminary year end results show that the Company achieved 115% of its electric energy savings goal, 111% of its electric demand savings goal, and 111% of its gas savings goal.

Residential programs finished strong in the fourth quarter. 60% of completed units in the residential new construction program achieved the top tier savings levels. In the Energy Wise program, over 10,000 home energy assessments and 2,900 weatherization jobs were completed in 2015. In terms of programmatic improvements, the RI multifamily program opened up the residential Heat Loan (0% interest free financing) to condo owners and the first customer just received their new heating system. Roger Williams Park Zoo joined the Community program and the team continued work with the City of Providence in their effort to become the next municipal Energy Champion.

Large Commercial New Construction also delivered strong results. The Upstream Lighting Initiative continues to make sizable contributions to the large industrial and commercial portfolio. In the large commercial and industry retrofit program, the EnergySmart Grocer team completed their first two projects with Darden Restaurant Group this year. In addition, based on the partnership between Independent Stores Brian Flumere and the Company, 2015 was one of the strongest years to date for RI independent grocery store performance. The Small Business Direct Install program also continues to deliver great service to RI customers.

National Grid also actively participated in other initiatives in the state to help construct a more successful energy efficiency industry in RI. Specifically, the Company worked with RIIB, Sustainable Real Estate Solutions, OER, Mike Guerard, and many others to help jumpstart C-PACE in Rhode Island. Exploring National Grid offerings and crafting the program guide were the primary work areas.

During the fourth quarter the Rhode Island Public Utilities Commission approved the 2016 Energy Efficiency Program Plan on December 16, 2014. Therefore, the efforts of the last few months have been focused on both meeting 2015 targets while laying groundwork for continued excellent performance in 2016. The Company is confident that it will be able to continue its momentum from 2015 into 2016, creating even more benefits and energy savings to the State of Rhode Island.

2015 Program & Initiative Updates

Residential New Construction

- Completed units in 2015 totaled 442 with 60% achieving the top tier levels of more than 25% savings. 69% of completed homes were new construction and 31% were renovation-rehabilitation. 49% of homes served were Income Eligible.
- 49 homes achieved Tier II savings (a minimum of 25% savings over the program baseline)
- Two homes achieved Tier III (a minimum of 45% savings over the program baseline).
- 97 new units were enrolled during the fourth quarter bringing the overall total enrollments for the year to 456.
- The single family home on Bentley Farm road in West Greenwich can be considered Net Positive. With solar it scored a Home Energy Rating System (HERS) Index of -4, and without solar it achieved 44.5% savings over the program User Defined Reference Home (UDRH standard). The program team trained and worked with the HVAC contractors on two separate occasions to ensure that the ductwork passed requirements. The home has a propane furnace with 97.3% of Annual Fuel Utilization Efficiency (AFUE), an air source heat pump with the Seasonal Energy Efficiency Rating (SEER) of 18, two 3.25 Energy Factor (EF) heat pump water heaters, and Energy Star appliances.

Income Eligible

- The Rhode Island Department of Human Services (DHS) Management Team, National Grid, and CLEARResult met to discuss the integration of budgets based on funding from Federal DOE and LIHEAP programs, and National Grid energy efficiency funds. The goals, agreed to by all parties, are to maximize the leveraging of funds, match funding to capacity, and build a reliable funding stream for the Community Action Program (CAP) agencies.
- Two Weatherization Technical Committee meetings were held in the fourth quarter. Subjects discussed included updates on the Field Manual Training, test equipment selection and maintenance, training updates, ASHRAE implementation, Chimney Liners and recurring Hancock software issues.
- CLEARResult organized and participated in LED Training for program auditors.
- The RI Income Eligible Services Operations Manual Final Draft was reviewed by DHS in the fourth quarter. Changes are being incorporated and the Manual will be distributed to CAP agencies in the first quarter of 2016. The manual contains all policies and procedures for the program as well as all forms, appendices and client information documents.

- The implementation of the National Grid Background Check program continued in the fourth quarter. This program will ensure the safety of customers and contractors. CLEAResult has contacted every Contractor on the states roster and is working with CAP agencies to smoothly integrate the Background Check policy.
- During the fourth quarter, Quality Control Inspector training and testing continued. Each agency now has at least one auditor that has passed the written and field test and is eligible to inspect DOE funded projects.

EnergyWise

- Over 10,000 home energy assessments and 2,900 weatherization jobs were completed in 2015.
- 838 heat loans were completed with 1,324 heat loan authorizations during 2015.
- Ten Block Island audits were completed with two jobs weatherized.
- The team is working on the Building Labeling Initiative and solar initiatives in preparation for 2016 launch.

EnergyWise and Income Eligible Multifamily

- The Company has begun recruiting members for the new Multifamily working group to start meeting in 2016 spring.
- The team collected data for benchmarking of 438 income eligible buildings and initiated data analysis to identify and target the highest energy consumers.
- The team engaged Newport Housing to move forward with evaluating the state of their building stock and planning the energy efficiency education 8 selected program participants.
- The Income Eligible program exceeded savings targets finishing the year at 112% of goal on Electric and 105% of goal on gas.
- The RI multifamily program opened up the residential Heat Loan (0% interest free financing) to condo owners and the first customer just received their new heating system.
- The market rate program exceeded savings targets finishing the year at 118% of goal on Electric and 116% of goal on gas.

ENERGYSTAR® Lighting and Appliances

- In October, pink Greenlite LEDs were sold at thirty independent retail locations. Each sale contributed \$1.25 per bulb to the Gloria Gemma Foundation in support of breast cancer awareness.
- The Energy Saving Fundraiser program was promoted on National Grid's Facebook page, which resulted in a lot of likes and shares (see picture at the end of the report). In 2015, ten schools have participated in the fundraiser program.
- The October email campaign for Room Air Cleaners resulted in the sales of 94 units in a two-week period.

- A temporary vendor was engaged at the end of December to meet outstanding obligations from the refrigerator recycling vendor ceasing operations.
- In October, three vendors worked at a Raytheon employee event to promote energy efficient lighting, appliances, and home energy assessments.
- In November, there were education tables in Lowe's Cranston and The Home Depot in North Providence that featured LED lighting.

ENERGYSTAR® HVAC (Heating and Cooling)

- Combination boiler/water heater, boilers, furnaces and Wi-Fi enabled thermostats accounted for the majority of measures in the fourth quarter.
- The program experienced a slight decrease in participation due to lower incentive levels, however yearly savings & budget goals were achieved.
- Program strategy and execution teams will work closely with marketing resources and outreach vendors to educate our stakeholders on the incentive opportunities available in 2016 and forward.

Home Energy Reports

- During the fourth quarter, the Home Energy Report program helped customers save 5,356 MWh and 195,636 Therms. This is equivalent to over \$1.2M in customer bill savings. In 2015, the program saved 31,582 MWh and 649,097 Therms.
- The fourth quarter savings rate for electric customers was 1.1% and 0.7% for gas customers.
- Digital engagement continued to be high with an average email open rate of 27%.
- A recent customer survey showed that 76% of RI customers receiving the Home Energy Reports read the reports, and the same percentage like the reports.
- Fourth quarter enhancements to the customer experience included an educational message on ice dam prevention that promoted the Home Energy Assessment, as well as an efficient thermostat-focused message in preparation for winter.

Community Initiative

- The team continued to work with the City of Providence in their effort to become the next municipal Energy Champion. The Providence-based colleges and universities have added to the Providence effort through a collegiate competition among students, faculty and staff. Numerous individuals have reached out to friends, family and associates using an online toolkit the Company provided for Providence supporters.
- The team attended two Northern RI Chamber events totaling over 400 attendees. Find Your Four! has been included in the weekly newsletter to over 1,600 recipients since the first week in November and the Company will provide content for the Chamber's newsletter throughout 2016.

- Roger Williams Park Zoo joined the program. Over 30,000 emails promoting Find Your Four! were sent to Rhode Islanders by the zoo in December. They will continue to include program message in their newsletters and emails throughout 2016.
- The team continues to have regular contact with Community Action Program (CAP) agency staff members and provide support and material for their ongoing client communications.
- The team promoted at Brown-RISD Hillel and Edgewood Congregational Church with over 60 participant sign ups at Brown Hillel. Each of these partners included our message in their newsletters and encouraged members to visit our website and join the Challenge online.
- Monthly email communications with seasonal messaging have gone out to an active email list of over 5,000 recipients.

Codes Initiative

- In the fourth quarter, 4 commercial and 3 residential classroom energy code trainings took place. The commercial trainings drew 35 attendees and the residential trainings drew 99 attendees. Residential attendance was boosted by conducting two 90-minute residential trainings at the New England Building Officials Education Association (NEBOEA) conference.
- There were 7 residential in-field trainings in the fourth quarter. These training focused on blower door and duct blaster testing and drew a combined 110 attendees, several of which were vocational students.
- On 12/16, there were 11 participants on the tour of the Brown University Applied Math Building, led by initiative subcontractor Stephen Turner, which focused on how the building met and/or exceeded the energy code.
- The initiative also fielded 7 residential and 1 commercial Circuit Rider phone calls in the fourth quarter, and conducted 4 residential on-site Circuit Rider field visits.

Large Commercial New Construction

- Both the electric new construction program and the gas new construction program are expecting to meet their 2015 goals.
- Upstream Lighting:
 - The Upstream Lighting Initiative continues to make strong contributions to the large industrial and commercial portion of the portfolio. The initiative surged in the fourth quarter. It exceeded the yearly goal the company had set for it and the projections given last quarter.
- Building Operator Certification (BOC):
 - BOC level 1 classes were held in Providence in 2015. There were 30 candidates and 15 received certifications. In 2016, this will represent 89,092 kWh and 13,364 therms.
- In early December, National Grid and Lockheed Martin had a presence at the Annual Stars of the Industry event held at Twin River for the RI Hospitality Association.

Large Commercial Retrofit

- This quarter the company would like to highlight the progress made in the grocery sector.
- The EnergySmart Grocer (ESG) team completed their two first projects with Darden Restaurant Group this year. Projects took place at the Longhorn and Olive Garden locations in Warwick, RI and involved the installation of Energy Conservation Measures (ECMs). The two projects resulted in almost 7,000 in kWh savings and \$1,800 in incentives.
- Independent Stores Brian Flumere developed a strong rapport with Peter Grealish, Account Manager at National Grid, which resulted in one of the strongest years to date for RI independent grocery store performance. Peter and Brian together develop the relationship with Dave's Marketplace, the largest independent grocery chain in RI with nine stores. This chain completed numerous projects during the year and saved over 720,000 kWh with ESG in 2015. This relationship was major win for both delivering savings and showing that ESG can provide a compelling offer for the independent grocery market.
- Market Engagement: the Company and its contractor ESG engaged the market beyond customer outreach with a focus on contractors and market associations to expand the program's influence. The top highlight was a partnership with the Rhode Island Food Dealers Association (RIFDA) with whom ESG has sponsored these last three years. RIFDA approached ESG during their 2015 annual golf tournament to discuss an energy efficiency award they could present to a deserving member. The marketing team is working with ESG and RIFDA to help deliver the National Grid EnergySmart Grocer award to a Rhode Island grocer in the spring of 2016.
- The Company's partnership with Leidos continues to mature. By the end of the fourth quarter National Grid received 73 (for the year) Industrial energy efficiency applications with more than \$4.5 million in projects in various stages of development. 93% of these are non-lighting measures. The Company looks forward to giving a more complete report on this exciting initiative in our year-end report.

Small Business Direct Install

- The Small Business program had mixed results in regards to the goals. Despite a lot of hard work, the electric side of the house fell short. However, the gas side exceeded its goal. Regardless of performance to goal, the program continued to deliver great projects for RI small businesses. One example is the Design Fabricators, an architectural woodworking and fixture company located in Cranston, RI. Through the Direct Install program they converted dated fixtures to LEDs and added occupancy sensors and LED screw-ins throughout the building. Overall these upgrades combined will save the customer 44,167kWh or \$6,756 annually. The total project cost was \$47,846 with National Grid's incentives covering \$33,273.

- The Customer Directed Option wrapped up 2015 with a total of more than 600 completed projects from 52 vendors across Rhode Island and Massachusetts.
- Superior LED Light, LLC, a Rhode Island based company had two successful fourth quarter projects in Warwick, RI. Airport Plaza Associates and Brewer Yacht Club both made changes to their exterior lighting, improving curb appeal while decreasing monthly energy expenses. The total combined project costs \$29,813 and National Grid's incentives covered \$19,607. The upgrades will bring an estimated annual saving of 39,930 kWh.

Finance

- National Grid worked with RIIB, Sustainable Real Estate Solutions, OER, Mike Guerard, and many others to help jumpstart C-PACE in Rhode Island. Exploring National Grid offerings and crafting the program guide were the primary work areas in the fourth quarter.

Pilots

- The Company is awaiting final results on the electronically commutated motor (ECM) pump demonstration to explore electric and natural gas savings. The results were expected to be finalized this quarter; however, the analysis has taken longer than the original timeline. The Company now expects to be able to present results for this demonstration early next year.
- The Company is in process of designing the demand response pilot for 2016.

Evaluation

- The work plan for the C&I Prescriptive Compressed Air (CAIR) study was developed. The prescriptive sample was created with planned site visit scheduling in the first quarter of 2016.
- The C&I Custom Process study sample design and work plan are initiated.
- The C&I Custom HVAC study sample work have begun. The finalized work plan is expected in the first quarter of 2016.
- The C&I Custom Gas Impact study work plan is finalized and the contractor has begun to arrange site visits.
- The Small Business Lighting study is completed. The impact results will be applied for 2016 plan year.
- The work plan for the C&I Energy Code Compliance Study was developed, with site visits expected to begin in the first quarter of 2016.

Upcoming Events:

- There will be a GlobalCon Conference from March 9th to 10th at Hynes convention Center in Boston.
- The RI Home Show is scheduled for March 31, 2016 at the RI Convention Center.

Energy Saving Fundraiser Program on Facebook

 **National Grid**
October 19 at 4:43pm · 🌐

Want to raise funds for your school *and* teach kids about saving energy? Participate in our Energy Saving Fundraiser Program and do just that. Your school keeps 100% of the money raised from selling ENERGY STAR light bulbs, advanced power strips, and low-flow showerheads - and it costs nothing to participate!



 **nationalgrid**
HERE WITH YOU. HERE FOR YOU.

Energy Saving Fundraiser Program

National Grid's comprehensive energy saving fundraiser program helps Massachusetts and Rhode Island public and private schools raise funds while teaching students about energy efficiency and conservation.

NATIONALGRIDUS.COM [Learn More](#)

NATIONAL GRID ENERGY EFFICIENCY PROGRAMS IN RHODE ISLAND
Table 1. Summary of Electric 2015 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	\$/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			
Commercial and Industrial															
Large Commercial New Construction	6,846	7,243	105.8%	33,702	37,205	110.4%	3,698	2,133	57.7%	\$9,740.3	\$8,538.7	87.7%	446,408	\$ 0.019	\$ 0.029
Large Commercial Retrofit	6,262	7,084	113.1%	48,041	59,421	123.7%	574	418	72.7%	\$15,506.5	\$20,809.4	134.2%	750,406	\$ 0.028	\$ 0.036
Small Business Direct Install	4,143	3,678	88.8%	19,539	15,875	81.2%	1,407	976	69.3%	\$12,000.3	\$10,735.0	89.5%	187,689	\$ 0.057	\$ 0.078
Community Based Initiatives - C&I										\$76.6	\$41.2	53.8%			
Commercial Pilots										\$230.3	\$8.4	3.6%			
Comprehensive Marketing - C&I										\$192.0	\$97.3	50.6%			
Finance Costs										\$4,000.0	\$4,000.0	100.0%			
SUBTOTAL	17,252	18,005	104.4%	101,282	112,501	111.1%	5,680	3,526	62.1%	\$41,746.0	\$44,229.9	105.9%	1,384,502	\$ 0.032	\$ 0.044
Income Eligible Residential															
Single Family - Income Eligible Services	479	627	131.1%	3,680	4,010	109.0%	2,500	2,851	114.0%	\$7,820.2	\$7,067.9	90.4%	44,480	\$ 0.159	\$ 0.211
Income Eligible Multifamily	120	188	156.5%	2,907	3,249	111.8%	8,000	4,610	57.6%	\$2,300.1	\$2,320.3	100.9%	34,957	\$ 0.066	\$ 0.078
SUBTOTAL	599	816	136.2%	6,587	7,260	110.2%	10,500	7,461	71.1%	\$10,120.3	\$9,388.2	92.8%	79,437	\$ 0.118	\$ 0.152
Non-Income Eligible Residential															
Residential New Construction	169	111	65.8%	559	1,263	225.8%	430	442	102.8%	\$962.0	\$1,003.7	104.3%	15,799	\$ 0.064	\$ 0.138
ENERGY STAR® HVAC	197	252	128.1%	1,020	1,189	116.5%	1,322	1,945	147.1%	\$1,345.6	\$1,342.3	99.8%	16,433	\$ 0.082	\$ 0.132
EnergyWise	1,383	2,498	180.6%	11,157	19,484	174.6%	9,000	11,665	129.6%	\$8,883.7	\$9,782.2	110.1%	208,928	\$ 0.047	\$ 0.092
EnergyWise Multifamily	178	224	125.9%	3,898	4,592	117.8%	4,900	7,710	157.3%	\$3,193.9	\$3,345.0	104.7%	51,627	\$ 0.065	\$ 0.093
ENERGY STAR® Lighting	5,125	5,454	106.4%	38,859	41,245	106.1%	104,825	302,899	289.0%	\$8,660.9	\$6,905.7	79.7%	476,993	\$ 0.014	\$ 0.049
ENERGY STAR® Products	652	668	102.5%	4,605	4,042	87.8%	13,438	18,912	140.7%	\$2,297.4	\$1,931.6	84.1%	29,920	\$ 0.065	\$ 0.084
Home Energy Reports	4,161	4,983	119.7%	25,634	31,143	121.5%	268,733	268,263	99.8%	\$2,594.2	\$2,464.2	95.0%	31,143	\$ 0.079	\$ 0.101
Energy Efficiency Educational Programs										\$50.0	\$38.5	77.1%			
Residential Products Pilot										\$523.7	\$184.5	35.2%			
Community Based Initiatives - Residential										\$333.8	\$211.6	63.4%			
Comprehensive Marketing - Residential										\$635.7	\$612.5	96.3%			
SUBTOTAL	11,865	14,190	119.6%	85,733	102,957	120.1%	402,648	611,836	152%	\$29,480.7	\$27,821.8	94.4%	830,843	\$ 0.033	\$ 0.069
Regulatory															
EERMC										\$846.1	\$851.6	100.7%			
OER										\$564.1	\$606.0	107.4%			
SUBTOTAL										\$1,410.1	\$1,457.6	103.4%			
TOTAL	29,715	33,010	111.1%	193,602	222,718	115.0%	418,828	622,823	148.7%	\$ 82,757.2	\$ 82,897.5	100.2%	2,294,782	\$ 0.036	\$ 0.056
<i>RGGI</i>										\$ 2,206.2	\$ 1,410.3	63.9%			
<i>System Reliability Procurement</i>										\$ 513.2	\$ 498.1	97.1%			

NOTES
(1)(4)(7) Targets from Docket 4527 - 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).
A planning error occurred in the Income Eligible Multifamily Electric program. The correct planned participants should have been closer to 4,000, which would make the current percent achieved close to 100%.
A planning error occurred in the ENERGY STAR® Lighting program. The correct planned participants should have been 233,364, which would make the current percent achieved 129%.
(10) Approved Budget includes Implementation and Evaluation budgets from Docket 4527, Attachment 5 Table E-2 (electric) and Attachment 6 Table G-2 (gas), adjusted to reflect "Docket 4527 – The Narragansett Electric Company, d/b/a National Grid 2015 Energy Efficiency Program Plan Transfer of Funds Request" approved by the Energy Efficiency Resources Management Council on March 29, 2015, the Division of Public Utilities and Carriers (Division) on March 20, 2015, and the Rhode Island Public Utilities Commission on May 7, 2015; and "Docket 4527 - The Narragansett Electric Company, d/b/a National Grid 2015 Energy Efficiency Program Plan Transfer of Funds Notice" sent to the Division and the EERMC in October 2015.
(11) Year To Date Expenses include Implementation and Evaluation expenses.
RGGI Expenses are counted separate as those funds were not part of the approved 2015 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 4528, not included in Expenses Total

NATIONAL GRID ENERGY EFFICIENCY PROGRAMS IN RHODE ISLAND

Table 2. Summary of Gas 2015 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	41,802	36,459	87.2%	227	96	42.5%	\$1,517.8	\$1,843.7	121.5%	766,516	\$ 2.41	\$ 2.00
Large Commercial Retrofit	125,711	137,502	109.4%	600	612	102.0%	\$4,208.4	\$3,227.0	76.7%	1,073,438	\$ 3.01	\$ 5.28
Small Business Direct Install	3,489	4,758	136.4%	83	120	144.0%	\$318.9	\$203.4	63.8%	46,468	\$ 4.38	\$ 10.77
Commercial & Industrial Multifamily	9,396	11,580	123.2%	1,968	2,345	119.2%	\$692.2	\$705.4	101.9%	158,336	\$ 4.46	\$ 4.96
Commercial & Industrial Pilots							\$73.5	\$9.4	12.8%			
Comprehensive Marketing - C&I							\$102.3	\$36.0	35.2%			
Community Based Initiatives - C&I							\$10.0	\$5.4	53.8%			
Finance Costs							\$500.0	N/A	N/A			
SUBTOTAL	180,397	190,298	105.5%	2,878	3,174	110.3%	\$7,423.1	\$6,030.3	81.2%	2,044,758	\$ 2.95	\$ 4.32
Income Eligible Residential												
Single Family - Income Eligible Services	8,780	10,990	125.2%	400	529	132.3%	\$3,303.5	\$2,682.7	81.2%	219,800	\$ 12.21	\$ 17.79
Income Eligible Multifamily	19,098	20,013	104.8%	2,900	3,956	136.4%	\$1,721.5	\$1,756.7	102.0%	313,770	\$ 5.60	\$ 6.86
SUBTOTAL	27,878	31,003	111.2%	3,300	4,485	135.9%	\$5,025.1	\$4,439.4	88.3%	533,570	\$ 8.32	\$ 11.09
Non-Income Eligible Residential												
EnergyWise	68,141	75,095	110.2%	2,400	2,830	117.9%	\$6,285.2	\$4,877.6	77.6%	1,676,356	\$ 2.91	\$ 4.72
Energy Star® HVAC	29,081	31,023	106.7%	1,327	1,643	123.8%	\$1,490.2	\$1,524.8	102.3%	529,669	\$ 2.88	\$ 8.66
EnergyWise Multifamily	15,863	18,420	116.1%	2,500	3,147	125.9%	\$1,657.8	\$1,694.2	102.2%	317,135	\$ 5.34	\$ 7.49
Home Energy Reports	50,806	60,254	118.6%	142,220	130,455	91.7%	\$470.5	\$455.5	96.8%	60,254	\$ 7.56	\$ 9.26
Residential New Construction	4,796	12,732	265.5%	386	366	94.8%	\$328.7	\$450.8	137.2%	224,302	\$ 2.01	\$ 3.21
Residential Products Pilot							\$93.4	\$55.2	59.0%			
Comprehensive Marketing - Residential							\$90.5	\$88.5	97.7%			
Community Based Initiatives - Residential							\$32.3	\$28.0	86.7%			
SUBTOTAL	168,687	197,524	117.1%	148,833	138,441	93.0%	\$10,448.6	\$9,174.5	87.8%	2,807,716	\$ 3.27	\$ 5.87
Regulatory												
EERMC							\$318.8	\$309.7	97.2%			
OER							\$212.5	\$175.6	82.6%			
SUBTOTAL							\$531.3	\$485.3	91.4%			
TOTAL	376,963	418,825	111.1%	155,012	146,100	94.3%	\$ 23,428.0	\$ 20,129.5	85.9%	5,386,044	\$ 3.74	\$ 5.85

NOTES
(1)(4) Targets from Docket 4527 - Attachment 6, Table G-7 (gas).
(3) Pct Achieved is Column (2)/ Column (1).
(4) Participation was planned and is reported in 'net' terms which takes into account free-ridership and spillover.
(6) Pct Achieved is Column (5)/ Column (4).
(7) Approved Budget includes Implementation and Evaluation budgets from Docket 4527, Attachment 6 Table G-2 (gas), adjusted to reflect "Docket 4527 – The Narragansett Electric Company, d/b/a National Grid 2015 Energy Efficiency Program Plan Transfer of Funds Request" approved by the Energy Efficiency Resources Management Council on March 29, 2015, the Division of Public Utilities and Carriers (Division) on March 20, 2015, and the Rhode Island Public Utilities Commission on May 7, 2015; and "Docket 4527 - The Narragansett Electric Company, d/b/a National Grid 2015 Energy Efficiency Program Plan Transfer of Funds Notice" sent to the Division and the EERMC in October 2015.
(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.
(9) Pct Achieved is Column (8)/ Column (7).
(10) \$/lifetime MMBtu = Column (8)*1000/Column (10)
(12) Planned \$/lifetime MMBtu - Attachment 6, Table G-5 (gas).

Table 3
National Grid
Revolving Loan Funds

Large C&I Electric Revolving Loan Fund

Small Business Electric Revolving Loan Fund

(1)	2015 Funds Available	\$9,057,728
(2)	2015 Loan budget	\$6,500,000
(3)	Committed	\$0
(4)	Paid	\$4,930,123
(5)	Number of loans	89
(6)	Participants	48
(7)	Savings (MWh)	12,627
(8)	Available	<u>\$1,569,877</u>

(1)	2015 Funds Available	\$1,702,050
(2)	2015 Loan Budget	\$1,455,000
(3)	Committed	
(4)	Paid	\$1,726,032
(6)	Participants	1,397
(7)	Savings (MWh)	15,875
(8)	Available	<u>-\$271,032</u>

Rhode Island Public Energy Partnership (RI PEP)

(9)	2014/2015 Loan Budget	\$1,000,000
(10)	Committed	\$0
(11)	Paid	\$991,977
(12)	Repayments	\$124,613
(13)	Participants	12
(14)	Savings (MWh)	1,722
(15)	Available	<u>\$132,636</u>

C&I Gas Revolving Loan Fund

(1)	2015 Funds Available	\$1,000,000
(2)	2015 Loan budget	\$1,000,000
(3)	Committed	
(4)	Paid	\$513,646
(6)	Participants	7
(7)	Savings (MMBtu)	31,720
(8)	Available	<u>\$486,354</u>

Notes

- 1 Amount Company estimated in 2015 Plan, Table E-10 including 2015 injections.
- 2 Budget adopted by Sales Team for 2015 operations.
- 3 As of December 31, 2015
- 4 As of December 31, 2015
- 5 As of December 31, 2015
- 6 Unique customer names for large business and unique customer accounts for small business (not adjusted for net-to-gross).
- 7 As of December 31, 2015
- 8 Available funds as of December 31, 2015 not including repayments.
- 9 RI PEP funding is over two years - includes 2014 and 2015.
- 10 As of December 31, 2015
- 11 As of December 31, 2015
- 12 As of December 31, 2015
- 13 As of December 31, 2015 -12 entities with 32 applications.
- 14 As of December 31, 2015
- 15 Available funds as of December 31, 2015.

Table 4
2015 RGGI Budget and Spend

Initiative	2015 Budget	Spend
RI Public Energy Partnership Incentives	\$ 500,000	\$ -
Residential Delivered Fuels	\$ 1,200,000	\$ 1,199,867
Agricultural Delivered Fuels	\$ 192,700	\$ 38,854
Small Bus Community Bldgs	\$ 137,919	\$ 137,919
Heat Pump Study	\$ 175,585	\$ 33,681
Total	\$ 2,206,204	\$ 1,410,321

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 2015, 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 Public Energy Partnership “RIPEP”

RI Office of Energy Resources

Energy Efficiency & Resource Management Council Meeting
February 11, 2016



STATE OF RHODE ISLAND
**OFFICE OF
ENERGY RESOURCES**

THE
UNIVERSITY
OF RHODE ISLAND
OUTREACH CENTER

nationalgrid



U.S. DEPARTMENT OF
ENERGY

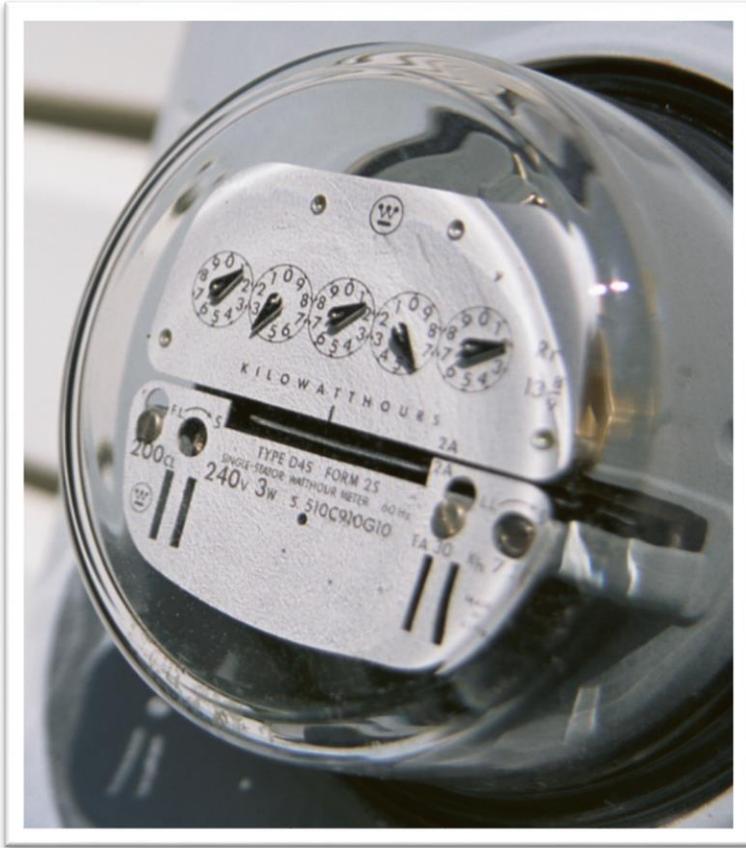
RIPEP is...

A *collaboration* among...

- RI Office of Energy Resources
- National Grid
- URI Outreach Center
- Narragansett Bay Commission
- Energy Efficiency and Resource Management Council
- State and municipal representatives

... to achieve *deep energy savings* in
state and municipal facilities

Goals of RIPEP



- **DATA:** Create an inventory of energy consumption in municipal and state facilities
- **PROJECTS:** Help approximately 100 public facilities achieve 20% energy savings
 - Conduct 10 renewable energy assessments at water facilities
- **BARRIERS:** Identify and mitigate barriers to efficiency improvements

Results: Data

- **100%** of RI municipalities, school districts, and state agencies were baselined
- **78%** (28 of 36) of school districts and **69%** (27 of 39) of municipalities “signed on” to RIPEP
- All **16** state agencies (that have their own facilities) and **3** higher education institutions were included
- **546** municipal and **331** school and approximately **900** state facilities, for a total of about **1777** facilities

Results: Projects

- **39 energy audits were performed**
 - 1.8 million square feet
- **123 energy efficiency projects have been implemented as a result of RIPEP efforts**
 - Average energy savings of 28.6% or 4,748 MMBTU
- **10 renewable energy assessments were completed at water and waste water facilities**
 - 26.8 MW of potential nameplate capacity

Results: Barriers

Capital & Procurement

- Upfront capital
- Budgeting process
- Bidding process
- Low-bid selection criteria
- Competing priorities

Motivation

- No incentive to invest
- Top-down support
- Facilities-finance disconnect
- Skeptics
- Competing priorities

Capacity

- Staff & time
- Technical expertise
- Awareness of programs
- Occupant education
- Communication/ Messaging
- Data tracking

Results: Barriers

- ✓ Public sector programs and representatives at OER and National Grid
- ✓ Master Price Agreement 508
- ✓ On-bill repayment – 5 years & natural gas
- ✓ Energy data organization and tracking
- ✓ Municipal streetlight incentives
- ✓ Other state initiatives
 - Energy procurement
 - Energy projects

RIPEP Set the Stage for: State Lead By Example EO

- **Lead By Example Executive Order:**
 - Procure 100% of state government electricity consumption from renewable sources by 2025
 - Reduce state energy consumption by 10% by 2019
 - Ensure that 25% of new cars entering the state fleet are zero-emission vehicles by 2025
 - Achieve high performance green building standards
 - Encourage employees to commute by foot, bike, or public transit
- **Energy Efficiency Projects:**
 - DOT - highway streetlights, park & rides, garages
 - DOA - powers parking garage lighting retrofit
 - DEM - lighting retrofit at 6 state parks/facilities
 - National Grid - Strategic Energy Management Plan
- **Solar PV Evaluations:**
 - Capitol Hill Facilities, Veterans Home, 2 others TBD

RIPEP Set the Stage for: the Efficient Buildings Fund

- **RI Infrastructure Bank revolving loan program**
 - For efficiency and renewables projects in public buildings
 - Approximately \$25 million available in first round
 - Eligible entities: municipalities, school districts and quasi-governmental entities that own their buildings
- **Received 27 applications**
 - \$60 million requested
 - 20 efficiency; 7 renewable energy
 - 19 municipalities; 8 schools
- **Funds to be made available in June 2016**



Questions?



STATE OF RHODE ISLAND

**OFFICE OF
ENERGY RESOURCES**