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LETTER FROM THE CHAIR

To Governor Gina M. Raimondo, Leaders and Members of the General Assembly, and all Rhode Island energy consumers:

On behalf of the Energy Efficiency and Resource Management Council (EERMC), please accept our 2016 Annual Report. In 2006, the Rhode Island General Assembly unanimously approved a new law for Rhode Island that continues to reduce the state’s energy costs by making significant energy efficiency investments that are a more economical resource than the cost of energy supply. The Least Cost Procurement provisions of the Comprehensive Energy Efficiency, Affordability, and Conservation Act replaced an antiquated system of investing in a statutorily-mandated, arbitrary amount of energy efficiency with a new strategy based on economics, flexible and responsive to changing market conditions, and designed to maximize consumer benefits.

Over the past 9 years, this annual report has documented that Least Cost Procurement is paying off. The efficiency plans and investments ushered in by this strategy have vaulted Rhode Island to the top of the national rankings. Rhode Island was recently ranked the #1 state in the country for utility energy efficiency programs and policies in the American Council for an Energy Efficient Economy’s 2015 State Scorecard. If we are to continue to lead by example, we will need to provide support and direction to both National Grid and the Office of Energy Resources as we strive to achieve even higher results with lower program costs by creating the innovative programs of the future.

In addition to enabling nation-leading levels of energy savings, Rhode Island’s investments in cost-effective, low-cost energy efficiency are creating jobs and boosting economic activity while providing a valuable service to all Rhode Islanders.

Since 2008, Rhode Island has invested $489 million in energy efficiency and consumers have realized $2.67 billion in economic benefits. Rhode Island has reduced its electric demand by 14% through low-cost efficiency and is on track to meet 17% of its electricity consumption through efficiency by 2017.

Rhode Island consumers are the focus of Least Cost Procurement, and the EERMC’s role in representing the interests of diverse stakeholders and consumers is critically important. The EERMC provides meaningful direction in the development of long-term energy efficiency plans and ensures that consumer and environmental benefits are maximized. We hope this report underscores the important role of the EERMC in providing ratepayer participation and oversight for the economic and environmental well-being of all state residents.

This year marked an important step forward for energy efficiency with the Administration’s creation of the Rhode Island Infrastructure Bank, supported by the EERMC. This bold plan will enable expanded financing that can create even more jobs, more energy efficiency and a clean energy future for Rhode Island without increasing costs to taxpayers. Once the Property Assessed Clean Energy (PACE) program is implemented later this year we will truly have energy efficiency financing alternatives that invest for the long term for all Rhode Islanders.

The EERMC is grateful for your support in the past and looks forward to your continued support in coming years. We are committed to working cooperatively with policymakers and all of Rhode Island’s energy consumers to continue the state’s leadership in creating a cost effective, clean energy economy.

Respectfully Submitted,

Christopher M. Powell, Chair
Energy Efficiency and Resource Management Council
LETTER FROM THE EXECUTIVE DIRECTOR

To Governor Gina M. Raimondo, Leaders and Members of the General Assembly, and all Rhode Island energy consumers:

The Rhode Island Energy Efficiency and Resource Management Council (EERMC), in partnership with the Office of Energy Resources (OER), is pleased to present the EERMC’s 2016 Annual Report. We are proud that in 2015 the American Council for an Energy Efficient Economy ranked Rhode Island as the fourth most energy efficient state in the nation and tied with Massachusetts for the number one spot for utility energy efficiency programs. These achievements reflect the commitment Rhode Island leaders have made to energy efficiency as part of a secure, cost-effective, and sustainable energy future.

Rhode Island’s energy efficiency programs deliver triple bottom line benefits. Energy efficiency programs reduce greenhouse gas emissions, create jobs and drive economic growth by keeping energy dollars in our local economy. Every $1 million invested in this sector leads to the creation of 45 job-years of employment, and every $1 invested boosts Gross State Product by $4.20. The state’s energy efficiency expenditures since 2008 will create over 23,700 job-years of employment and boost Rhode Island’s Gross State Product by $2.67 billion.

We are fortunate to have state leaders that understand and support the vital role energy efficiency plays in our state’s energy system. OER thanks each of you for your dedication to enhancing Rhode Island’s reputation and standing as a national leader. The year ahead will bring new challenges as we partner with the RI Infrastructure Bank to launch energy financing tools and take advantage of the opportunities afforded through the integration of more locally generated renewable energy into our electricity grid. We look forward to continued collaboration and innovation as we steer the Ocean State toward a more secure, cost-effective, and sustainable energy future.

We also want to extend a special note of appreciation to the Rhode Islanders who serve on the EERMC. These generous volunteers donate hundreds of hours of time over the course of the year, working to ensure that energy efficiency programs deliver on their promise to produce energy and cost savings for Rhode Island ratepayers. Rhode Island’s award-winning programs would not be possible without their support and dedication.

Sincerely,

Marion S. Gold, Ph.D.
Commissioner, Rhode Island Office of Energy Resources
Executive Director, Energy Efficiency and Resource Management Council
ABOUT THE EERMC

COUNCIL MEMBERSHIP

The EERMC consists of thirteen members appointed by the Governor with the advice and consent of the Senate. Nine members are voting members with knowledge of energy regulation and law, environmental issues pertaining to energy, energy design and codes, energy efficiency education and employment tracking, and energy users in the following sectors: large commercial and industrial, small commercial and industrial, residential, low income, and municipal. Four members are ex-officio, non-voting members including the Commissioner of the Office of Energy Resources and others representing an electric distribution entity, a gas distribution entity and the fuel oil or heating fuel industry. Members serve voluntarily and meet year-round.

COUNCIL MEMBERS

Christopher Powell, Chair
Voting Member
Assistant Vice President, Sustainable Energy and Environmental Initiatives, Brown University
Representing Expertise in Energy Regulation and the Law

Abigail Anthony, Vice Chair
Voting Member
Rhode Island Director, Acadia Center
Representing Expertise in Environmental Issues

Marion Gold, Executive Director
Ex-Officio Member
Commissioner
Rhode Island Office of Energy Resources

H. Robert Bacon
Voting Member
President, Gregg's Restaurants
Representing Small Commercial & Industrial Users

Joseph Cirillo
Voting Member
Former Building Commissioner
Representing Expertise in Energy Design & Code

Roberta Fagan
Ex-Officio Member
President, Oil Heat Institute of Rhode Island
Representing Expertise in Delivered Fuels

Jennifer Hutchinson
Ex-Officio Member
Senior Counsel, National Grid
Representing a Gas Distribution Entity

Michael McAteer
Ex-Officio Member
Director
RI Customer & Business Strategy, National Grid
Representing an Electric Distribution Entity

Joseph Newsome
Voting Member
Consultant
Representing Low Income Energy Consumers

Shigeru Osada
Voting Member
Former Sr. Vice President, Toray Plastics
Representing Large Commercial & Industrial Users

Elizabeth Stubblefield Loucks
Voting Member
Consultant
Representing Residential Users

Karen Verrengia
Voting Member
Energy Manager
Cranston Public School Department
Representing Expertise in Workforce Development

Diane Williamson
Voting Member
Director of Community Development
Town of Bristol
Representing Municipalities
The Energy Efficiency and Resource Management Council (EERMC) was established in 2006 under amendments to R.I.G.L. § 42-140.1 to provide structured stakeholder participation and oversight of energy efficiency procurement. In representing small and large businesses, non-profit organizations, homeowners and renters, municipalities and governments, the EERMC’s mission remains simple yet powerful: to maximize benefits to Rhode Island energy consumers through energy efficiency.

Rhode Island consumers are the focus of Least Cost Procurement, so ensuring the consumer voice in energy efficiency procurement decisions is critically important. The EERMC, assisted by its expert consultant team, provides meaningful input into National Grid’s efficiency procurement plans and adds significant stability to investment decisions. The EERMC’s model for structured stakeholder participation benefits Least Cost Procurement in several ways:

Rather than expend effort on contentious litigated proceedings among utilities, interveners, and public agencies, a coordinated process can bring all stakeholders into the discussion before policies and plan details progress to the point where there is little flexibility to address concerns. It permits Rhode Island to seek solutions that better satisfy multiple objectives. Compare recent experience in New York and Rhode Island. In June of 2008 the Public Service Commission issued an order establishing an Energy Efficiency Portfolio Standard, directing all utilities to file proposals for efficiency programs to meet certain savings targets. The volume of filings (anticipated in advance to be substantial) was divided into two groups for filing on different schedules. Most utilities filed multiple programs in each round. Over the ensuing months, the Commission had to work through dozens of individual filings from six different utilities and NYSERDA. With subsequent revisions and expansion there have been over 200 filings in total, requiring the dedication of 16 full-time Commission employees.

The resource-intensive nature of a typical rate case creates delays and barriers to participation, and as a result certain interests are not represented or under-represented because only those parties with significant resources can afford to participate.

Contrast this with the experience of the Rhode Island EERMC. Every three years, most recently in 2013, the EERMC is charged with developing three-year targets for efficiency savings. These targets were approved by the PUC in 2014, and the strategies and programs designed to accomplish them were developed over the course of monthly meetings during the spring and summer of 2014. Even with a broad range of stakeholders represented, the process is more efficient, takes less time overall,
and bypasses much of the serial back-and-forth of filings, interrogatories, and re-submissions before the Public Utilities Commission. The EERMC, in partnership with the OER is now beginning the planning cycle that will repeat this process in 2017 for the 2018-2020 Plan. The remainder of this report describes the specific activities the EERMC in 2015, including:

◆ Proposing and securing RI Public Utilities Commission approval of the 2016 implementation plan to secure nation-leading levels of cost-effective energy efficiency in the electric and gas sectors.


◆ Beginning the process of setting savings targets for gas and electric programs for the next Planning Cycle (2018-2020).

◆ Working with Dusky Energy Consultants to support startup and development of the Rhode Island Infrastructure Bank, and propose other key recommendations for making energy efficiency even easier and more accessible to Rhode Islanders through improved financing options.

◆ Bringing together key stakeholders in the Delivered Fuels Working Group to develop recommendations for extending the benefits of energy efficiency to Rhode Islanders who heat their homes or businesses with oil, kerosene, or propane.

◆ Exploring challenges, barriers, and opportunities to have a lower cost, cleaner energy future through comprehensive energy system planning and policies. This exploratory work is being conducted by the System Integration Subcommittee, a public presentation of this work was held in November and the final report on its initial recommendations can be found at: http://www.energy.ri.gov/documents/siri/Systems%20Integration%20Rhode%20Island%20Vision%20Document%20January%202016%20FINAL.pdf

◆ The EERMC submitted testimony and participated in hearings through its Consultant Team in Rate Design investigation ordered by the 2014 Renewable Energy Growth program.
2015 ACHIEVEMENTS AND HIGHLIGHTS

Rhode Island is a nationally recognized leader in implementing high-quality energy efficiency programs. Since 2008, Rhode Island has risen in the rankings of the American Council for an Energy Efficient Economy’s State Energy Scorecard, and continues to gain ground.

In 2015, Rhode Island again tied with Massachusetts for the #1 ranking in the category of utility energy efficiency programs and policies. Rhode Island also tied with Oregon for the #4 overall ranking. Rhode Island, Massachusetts and Arizona have the most aggressive energy savings targets in the nation.

The scoring revealed several areas in which Rhode Island can do more, including improving the state’s transportation efficiency, leading-by-example through state government initiatives, and more aggressive building and appliance efficiency standards. The state is working to improve scores in these and other areas. The EERMC Policy Recommendations are designed to address these important issues and advance Rhode Island’s standing in these categories.

Benefits of the Rhode Island Energy Efficiency Programs

- Since 2008, Rhode Island has invested $489 million in energy efficiency and consumers have realized $2.67 billion in economic benefits.
- In 2015, 1,009 companies were involved with delivery Rhode Island’s energy efficiency programs, with 79% of those companies located in Rhode Island.
- GHG Reduction: Will avoid 7 million metric tons from investments since 2006.
- The state’s energy efficiency investment since 2008 will create over 23,764 job-years of employment economy-wide and add $2.67 billion to Gross State Product.
- In 2015, 696 full-time equivalent jobs were directly related to the delivery of the state’s energy efficiency programs, a 12.6% increase from 2014.

LIFETIME ENERGY SAVINGS

- 13,636 GWh of electricity since 2006.
- 252 million therms of natural gas since 2009.
2015 ENERGY EFFICIENCY PROGRAM RESULTS

- Total Participants: 768,920
- Utility Program Cost: $103 million
- Total Economic Benefits: $386.4 million
- Cost Per Lifetime kWh of Electricity Saved: $0.036
- Cost Per Lifetime MMBTU of Natural Gas Saved: $3.83
- Energy Savings as a Percent of 2012 Consumption:
  - Electric: 2.91%
  - Gas: 1.18%

CUMULATIVE SAVINGS FROM ENERGY EFFICIENCY IN RHODE ISLAND

Past 10 years of savings from ratepayer funded energy efficiency programs
2016 POLICY RECOMMENDATIONS

R.I.G.L. § 42-140.1-5 requires that the EERMC “Submit to the joint committee on energy an annual report... regarding the activities of the Council, its assessment of energy issues, the status of system reliability, energy efficiency and conservation procurement, and its recommendations regarding any improvements which might be necessary or desirable.” The EERMC submits the following recommendations in support of the objective of identifying areas of potential enhancement to further support Rhode Island’s position as a national leader in energy efficiency and resource conservation.

As in previous years, we present both Policy Recommendations in support of legislative suggestions, and Strategic Principles, which provide indication of areas that the EERMC will actively pursue and support.

POLICY RECOMMENDATIONS

The primary focus of previous policy recommendations has been to encourage continuity of Rhode Island’s landmark Comprehensive Energy Conservation, Efficiency, and Affordability Act of 2006 that established Least Cost Procurement as the state’s overarching resource acquisition strategy for electricity and natural gas, which was set to expire in 2018. The EERMC commends the General Assembly for extending Least Cost Procurement through 2024 so that all Rhode Islanders can continue to benefit from investments in all cost-effective energy efficiency. To date, these benefits have exceeded $2 billion since inception of the Act.

Another key area emphasized in previous Policy Recommendations was the value of well-designed financing options that supplement and tie-in to successful rebate and incentive programs to allow more energy efficiency to be captured. The establishment of the Rhode Island Infrastructure Bank through the leadership of the Office of the Governor and the Office of the General Treasurer as well as the General Assembly’s passage of supporting legislation successfully delivers an effective means to this end to benefit all Rhode Islanders. In that spirit of success, the EERMC offers the following recommendations.

1) Create a sustainable funding mechanism for unregulated fuels for Rhode Island residences and businesses.

While the Comprehensive Energy Conservation, Efficiency, and Affordability Act of 2006 successfully supported long-standing, effective investment in the regulated energy sources of electricity and natural gas, no such consistent mechanism is in place to support energy efficiency for unregulated fuels — chiefly home heating oil, propane, and kerosene. These petroleum-based fuels play a central role in the thermal sector of Rhode Island’s energy economy. Nearly 40% of Rhode Island homes and businesses use delivered fuels for heating. Despite the prevalence of these fuels, virtually no dedicated energy efficiency funding exists to serve delivered fuels customers. Energy efficiency services for delivered fuels customers have been available since 2010, but on a limited basis and funded through a patchwork of sources. The EERMC recommends that a stable, sustainable funding source be created in order to provide delivered fuels customers with cost and energy savings opportunities that are available to natural gas customers.

2) Strengthen appliance energy efficiency standards for products not covered by federal action.

While some improved federal appliance standards have been promulgated in recent years, there remains tremendous opportunity to adopt stringent efficiency standards for products not subject to federal preemption. Rhode Island’s most recent standards were adopted in 2006 and the most recent federal standards were enacted in 2007. Mandating more aggressive standards only requires funding for compliance monitoring and represents one of the most cost-effective ways to promote energy efficiency. According to the Appliance Standards Awareness Project, adopting new efficiency standards for twelve products could generate over 54,000 BBTU in cumulative energy reductions by 2035, which would be equivalent to about one-third of Rhode Island’s 2035 energy
consumption under business-as-usual conditions. The EERMC recommends that Rhode Island pursue more energy efficient appliance standards for any products that are not subject national standards. This recommendation is consistent with the RI State Energy Plan, which also suggests looking to standards in California, which has been on the leading edge of standards policy for decades.

**STRATEGIC PRINCIPLES**

In addition to specific policy recommendations, the EERMC also offers more general strategies for moving toward a clean energy economy, which may serve as a foundation for future policy recommendations.

1) **Support ongoing investigation and efforts to optimize Rhode Island’s energy system integration.**

In 2015, the EERMC, working with key stakeholders as part of the working group System Integration Rhode Island (SIRI), significantly ramped up the investigation and strategy development to maximize practice and processes around Rhode Island’s use of energy. A report developed by SIRI represents a thoughtful and collaborative approach to addressing multiple interconnected issues and opportunities that can have a profound beneficial impact on Rhode Island’s energy future.

The SIRI Process has constructively engaged key stakeholders. It seeks to explore issues by discussing actual experience and learning that is taking place in various parts of the economy, and technology evolution, not by imposing an arbitrary “framework” through a “top down” investigation. The approach outlined in the SIRI report has the opportunity to advance Rhode Island’s energy, reliability, environmental, and economic goals by taking an incremental and workable set of steps toward building a new energy future. The EERMC, the OER, and government and regulatory bodies should support this process, and find appropriate forums such as Docket # 4600 in which to advance the discussions and learning opportunities outlined in the January SIRI Report. The EERMC offers the following strategic principle recommendations consistent with the six SIRI Report Recommendations:

- **Identify Ways to Promote More Cost-Effective, Comprehensive Non-Wires Alternatives Distribution Planning.**

The EERMC, National Grid, OER and Rhode Island regulators should build on the System Reliability Planning effort that has been taking place in Tiverton/Little Compton to develop deeper integration of a wide range of distributed resources (efficiency, renewable generation, storage (active and passive) and demand response to address both capacity and reliability issues on the electric distribution system. The design and implementation of new pilot efforts using new metering approaches and building on experience gained in RI State. Grid Worcester Pilots may provide constructive steps forward.

- **Assess Market Potential, Costs, and Benefits of Strategic Electrification and Active Load Management.**

The EERMC and OER, National Grid, regulators and market players should continue to assess the potential costs and benefits of strategic electrification that can displace fossil fuel consumption, and explore strategies to manage new electric uses in ways that support electric system reliability and reduce long-term costs.

- **Pave the Way for Accelerated Use of Electric Vehicles.**

The potential for electric vehicles to displace carbon emissions, provide storage and load management on the grid, and offer affordable mobility should be explored in an integrated manner. The transportation planning and electricity planning processes need to be coordinated in ways they have never had to. The EERMC recommends that current planning efforts move toward formal coordination, so that each plans with clear understanding of the needs and opportunities in the other related sector.

- **Map Rhode Island’s Current Renewable Energy Promotion Processes and Assess Adequacy and Gaps.**

The SIRI process, the rate design Docket #4568, and the new Docket #4600 which intends to consider the distribution system in a comprehensive manner all have raised questions about how to promote and integrate distributed generation into the electricity system. Many
jurisdictions are dealing with similar challenges. The EERMC, OER, National Grid, regulators, and advocacy and private sector businesses need to develop a shared vision of how the deployment of distributed generation can be advanced consistent with Least Cost Procurement, the guidance of the Renewable Energy Growth legislation and the State Energy Plan. The EERMC and OER should continue developing an integrated approach to promoting renewable energy development in Rhode Island.

- **Assess Market Potential, Costs, and Benefits of Advanced Metering Infrastructure and Time-Varying Rates.**

   The EERMC, OER, National Grid, and regulators should work together to understand fully the current regional markets for demand and capacity. They should explore, consistent with each of the items above, the ways that demand response and load management can provide benefits to customers, the system, and the environment, and how the capability to respond rapidly and reliably can be developed in a practical, cost-effective and sustained manner.

- **Consider Whether Methods of Performance Regulation Can Be Implemented to Further the Public Good.**

   The concept of performance regulation is increasingly being considered as a way to direct and support utilities to develop new approaches to the distribution system, to supply procurement, to long-term affordability and reliability and to the effective coordination of customer and utility investment. The EERMC and OER should consider in each of the goals outlined in the SIRI process just how the current incentive structure for utilities promotes, or fails to support these objectives, and begin to articulate structures that would reward the utility for superior performance. As Rhode Island continues to set nation-leading goals for customer-side investments in least-cost energy efficiency, increased attention has been paid to the role that financing can play in expanding the reach of programs, lowering their overall costs, and otherwise supporting the wider and hastened adoption of efficient and clean energy technologies. In 2014, the EERMC commissioned a study by Dunsky Energy Consulting to evaluate how new and existing energy efficiency financing strategies could potentially support Rhode Island’s Least Cost Procurement policies.

**2) Determine the most appropriate Cost-Effectiveness Test Methodology for Rhode Island.**

   Underlying many of the SIRI recommendations outlined above is the question of how the current system identifies, values, and quantifies the costs and benefits of various options. Excellent work had been done in this connection with the development and application of the Total Resource Cost Test in the assessment of energy efficiency measures, strategies and programs. As various distributed resource options (storage, demand response, renewable generation) become part of a more comprehensive approach to meeting Rhode Island’s energy needs, a more inclusive cost-effectiveness test that can evaluate all measures on a consistent basis should be explored. These might include (for instance), more comprehensive evaluation of environmental effects, health impacts, and economic impacts. The EERMC and OER, working with National Grid and other parties should take leadership in advancing this discussion in preparation for the anticipated LCP Standards revision process in 2017.

**3) Establish a Rhode Island “Sustainability Hub” with Smart Grid Pilot.**

   National Grid’s Sustainability Hub in Worcester, MA provides a community center for interactive education about energy efficiency and emerging technologies. It is also an integral part of the company’s smart grid pilot and provides participating customers with a new level of choice and control over their energy use through advanced technology.

   Rhode Island should build on the learning from this pilot and the Tiverton/Little Compton demand response pilot by exploring the idea of an RI Sustainability Hub. This would empower customers to save energy and optimize the use of the electric distribution system, potentially increasing electric service reliability and improving response to power outages.
RESIDENTIAL ENERGY EFFICIENCY PROGRAMS

National Grid offers comprehensive energy efficiency solutions for all Rhode Island residents. The goals of these offerings and services are to reduce both energy consumption and energy bills while improving customer comfort and educating customers on saving energy. The energy efficiency solutions concentrate on creating energy efficient homes, promoting efficient products, and educating consumers through community outreach and annual events such as the Energy Expo at the Rhode Island Home Show and RI Find Your Four Energy Challenge.

2015 marked a definitive change in residential energy efficiency lighting impacting both the in-home customer programs as well as efficient lighting at the retail level. For the in-home programs such as EnergyWise, Income Eligible Services, and the multifamily initiative, light emitting diode (LED) technology accounted for the majority of lighting products installed during the home energy assessments. This provided customers with an improved quality lighting experience over the previous generation of efficient lighting, while market factors brought LED pricing to a more cost competitive level.

National Grid continued to present energy efficiency opportunities and changes to energy consumption behavior to Rhode Islanders through the Home Energy Reports. Customers receive personalized reports via mail or e-mail that document energy consumption patterns, and contain a normative comparison to similarly sized and similarly heated homes. Customers who moved into new houses in 2015 were greeted with a custom report through the New Movers program, welcoming them to the neighborhood and their utility and showing them how to start out “right” in their new home. The Points and Rewards component of the report which allows customers to gain points for kWh saved, saw tremendous growth in 2015 growing by 81%, or 2,291 customers.

National Grid also saw great success with the Rhode Island Energy Challenge: Find Your Four! community initiative – a grassroots campaign designed to increase awareness of energy efficiency and National Grid’s portfolio of incentive, rebates and services. The Find Your Four! Program continued to reach many corners of Rhode Island communities with 57 events and competitions in numerous Rhode Island towns, cities, businesses, and places of worship resulting in over 9,200 face-to-face conversations resulting in almost 4,000 people taking the pledge to find four ways they can save energy. In 2015, with the support of Johnson and Wales University, the city of Providence had over 3,200 city residents pledge to be more energy efficient though the Find Your Four! Program.

At the 2015 Home Show, students from Scituate High School, John Deering Middle School, and North Kingstown High School were celebrated for garnering over 13,000 page views and 10,000 votes for the best class-made video demonstrating ways to be energy efficient. These schools received grants from National Grid to continue their great work and invest in energy efficient upgrades on campus.

National Grid continued its core residential energy efficiency programs in 2015:

- EnergyWise Home Energy Assessment offers single family customers free home energy assessments and information on their actual energy usage. Participants in this program...
receive personalized recommendations post-assessment, receive technical assistance and education, and also are eligible for financial incentives to replace inefficient lighting fixtures, appliances, thermostats, and insulation levels with models that are more energy efficient. In 2015 EnergyWise continued to leverage Regional Green House Gas funding to provide weatherization services to delivered fuel heated homes. EnergyWise also supported the Solarize Rhode Island efforts in North Smithfield, Tiverton, and little Compton by promoting an efficient home envelope prior to the installation of solar. The program also celebrated 14 Century Club recipients who are insulation contractors that weatherized 100 or more residential homes in Rhode Island.

* The Residential New Construction program promotes the construction and renovation/remodeling of high-performing energy efficient single family, multi-family, and income eligible homes. The program provides technical support to assist in the design of a high efficiency home and also provides in-field technical support to ensure the energy efficiency features are properly incorporated. The Program incentivizes both the efficient building envelope as well as high efficiency mechanical equipment. Throughout the year, there are training opportunities presented for builders, tradespeople, designers, and code officials.

* The ENERGY STAR® Consumer Products program promoted the purchase of high efficiency household appliances and electronics.

* The ENERGY STAR® Lighting program provides discounts to customers for the purchase of ENERGY STAR® compact fluorescent lamps (CFLs), light emitting diodes (LEDs), fixtures and solid state lighting through instant rebates, retail store promotions, and/or mail order.

* The High-Efficiency Heating and Cooling Programs (Gas Heat Program and CoolSmart Program) promote the installation of high efficiency gas and electric space heating and cooling equipment, water heating measures, and controls via tiered customer rebates. Heat pump water heaters were exceptionally popular. The programs also provide contractor training and incentives for proper equipment sizing, quality installation verification and distribution system improvements.

* Multifamily services provide coordination of energy efficiency solutions offered through the existing portfolio of residential and commercial programs. Offerings are comprehensive (both prescriptive and customer) – including incentives for heating and domestic hot water systems, heating/cooling equipment, insulation, lighting and appliances. 2015 marked the first year of offering the 0% Heat Loan to condo owners and for customer convenience, all communications are now channeled through a single point of contact known as the Multifamily Coordinator.

### 2015 Residential Results
- 102,560 Annual MWh Saved
- 826,497 Lifetime MWh Saved
- 197,086 Annual MMBtu Saved
- 2,641,380 Lifetime MMBtu Saved
- 492,176 Metric Tons of Greenhouse Gas Emissions Avoided
- 750,277 Program Participants
- $96.5 Million in Lifetime Electric Bill Savings
- $28.6 Million in Lifetime Gas Bill Savings
- $162.5 Million in Total Economic Benefits

### INCOME ELIGIBLE SERVICES
National Grid helps reduce electricity and heating costs for income eligible customers without any financial obligation from the customer. Income Eligible Services are delivered by local Community Action Program (CAP) agencies for residential customers, who are currently on the A-60 or 1301 Low Income rate, those customers who qualify for LIHEAP funds from the State, and/or whose household income level falls below 60% of the Area Median Income (AMI). Services offered to Income Eligible Customers include (1) an energy assessment of lighting, appliances and behavior to determine baseline consumption, (2) an inspection of existing insulation to identify opportunities for weatherization, and (3) an inspection of the customer’s heating system for potential replacement if applicable. All customers receive all services and equipment upgrades at no cost.
Quarterly, National Grid hosts an Income Eligible Services Best Practices meeting with all of the CAPs and DHS to discuss program updates and best practices regarding services, products and marketing. The meeting serves as a forum to discuss issues and make sure all participants have the same information to do their job serving its customers.

**LOW INCOME HOME ENERGY ASSISTANCE PROGRAM**

The Low Income Home Energy Assistance Program (LIHEAP) block grant is funded through the U.S. Department of Health and Human Services. The purpose of LIHEAP is to assist Rhode Island’s income eligible households in meeting the increasing costs of home energy and reduce the severity of any energy-related crisis. Rhode Island’s LIHEAP is administered by the Rhode Island Department of Human Services (DHS) Individual and Family Support/Community Services Division. LIHEAP intake and outreach is provided by seven local Community Action Program (CAP) agencies. Households are determined eligible for LIHEAP assistance according to income guidelines established by DHS.

**WEATHERIZATION ASSISTANCE PROGRAM**

The Weatherization Assistance Program (WAP) enables income eligible families to reduce their energy bills (and helps LIHEAP funds go farther) by making their homes more energy efficient, while addressing health and safety concerns. Funds are used to improve the energy performance of income eligible dwellings using the most advanced technologies and testing protocols available in the industry. WAP promotes energy efficiency, health, and safety, and helps families become more self-sufficient. WAP is funded through annual appropriations from the U.S. Department of Energy’s Weatherization Assistance Program and the U.S. Department of Health and Human Services. The state allocates 15% of its annual LIHEAP funding to weatherization.

Energy savings average 35% of consumption for the typical low-income home. Occupants of weatherized homes experience in the range of $400 in annual savings on their energy bills, at current energy prices. For every $1 invested, WAP returns $2.51 to the household and society. This includes $1.80 returned in reduced energy bills and $0.71 returned to ratepayers, households, and communities through increased local employment, reduced uncollectible utility bills, improved housing quality, and better health and safety though the reduction of heat-related illness and death and risk of death from home fires due to utility disconnection.

**INCOME ELIGIBLE PROGRAM/WAP COLLABORATIVE**

National Grid’s Income Eligible Services (IES) are administered along with related and complementary federal, state, and local programs in collaboration with DHS, the CAP agencies, and other local agencies. National Grid acknowledges and appreciates the collaboration with other programs, bringing local community ties and additional services, to ensure customers receive needed benefits.

National Grid and DHS co-authored both the Field Manual and Operations Manual in an effort to standardize the WAP/IES program statewide.

**2015 Income Eligible Results**

- 7,260 Annual MWh Saved
- 79,436 Lifetime MWh Saved
- 32,051 Annual MMBtu Saved
- 549,283 Lifetime MMBtu Saved
- 62,961 Metric Tons of Greenhouse Gas Emissions Avoided
- 11,946 Program Participants
- $8.83 Million in Lifetime Electric Bill Savings
- $5.86 Million in Lifetime Gas Bill Savings
- $38.7 Million in Total Economic Benefits

**2016 ENERGY EXPO AT THE RHODE ISLAND HOME SHOW**

In the face of unpredictable energy prices, it is critical that Rhode Islanders have access to all of the programs, products, and services that can help keep their bills low while improving the comfort of their homes. For the third consecutive year, the EERMC and National Grid sponsored the Energy Expo at the Rhode Island
Home Show held on March 31 - April 3, 2016 at the Rhode Island Convention Center. The goal of the Energy Expo was to bring practical and affordable energy saving solutions to Rhode Island families. The results are impressive:

- Over 20,000 people attended the Home Show over four days.
- Over 300 students from 20 Rhode Island career tech schools constructed the three feature energy demonstrations: a solar photovoltaic exhibit, the Cox Communications home technology showcase, and two “solar tree houses”. Students worked the show to describe the installations to attendees.
- 84 energy-related companies and organizations exhibited. The number of solar installers exhibiting grew exponentially this year due to new solar-friendly policies and programs in RI.
- Almost 700 energy assessments were scheduled at the show. Over 2,000 energy efficiency products were sold, including LED bulbs, lamps and advanced power strips.
- The opening ceremony featured Senators Reed and Whitehouse, Representatives Langevin and Cicilline, and Providence Mayor Jorge Elorza.

COMMERCIAL, INDUSTRIAL & PUBLIC PROGRAMS AND INITIATIVES

SMALL BUSINESS ENERGY EFFICIENCY PROGRAM

National Grid’s Small Business Direct Install program provides turnkey services to customers with less than 200 kW average monthly peak electrical demand. As part of the program, customers receive a free on-site energy assessment and a customized report detailing recommended energy-efficient improvements. National Grid then completes retrofit installations at the customer’s convenience.

National Grid pays 70% of installation and equipment costs and customers can finance the remaining share of the project over 24 months on their electric bill, interest free, using the Small Business Revolving Loan Fund providing that funds are available.

Although the program has traditionally focused on lighting and refrigeration, National Grid is constantly updating the program to apply other measures such as energy management systems, roof-top HVAC unit replacement, and new heating systems.

National Grid has also been actively pursuing new models that serve segments within what has been traditionally considered small business in more tailored and more cost effective ways. Their success with schools, national and regional chains, food retailers, and upstream lighting are all signs of a more strategic approach to these customers.

In 2016, National Grid will continue to utilize the existing contractor/ electrician base through the Customer Directed Option, continue successful sub-segment offerings, and explore whether C-PACE may be an attractive option for some of the larger small business customers.

FARM ENERGY EFFICIENCY PROGRAM

Recognizing that farmers play a vital role in the economy, environment and sustainability of Rhode Island, OER has been working with National Grid to improve farm energy efficiency. Because farmers, often rely heavily on delivered fuels and are a hard-to-reach sector for standard energy efficiency programs, OER dedicated funds to jump-starting a farm-specific energy efficiency program. Starting in 2014, OER supported comprehensive energy audits for eight (8) pilot farms ranging from dairy to greenhouse operations. These pilot audits provided OER and National Grid with a better understanding of farmer needs and farm-specific energy efficiency opportunities. Findings from these audits were used to create auditing tools and to train two (2) RISE Engineering auditors – National Grid’s Small Business/ Direct Install vendor – to provide energy assessments on Rhode Island farms. In late March 2016, the program was opened to all Rhode Island farmers on a first-come-first-serve basis. The program offers a free energy assessment and access to prescriptive rebates and incentives for both electric and delivered fuel energy efficiency measures. For more information on the program please visit the OER website.

Currently exiting its pilot stage and looking to expand, the Farm Energy Efficiency Program offers Rhode Island agribusinesses incentives for
prescriptive energy efficient measures. As part of the program, customers receive a free on-site energy assessment and a report detailing recommended energy-efficient improvements.

Farmers or agribusiness owners can then choose to install any number of recommended electric or delivered fuels measures. Delivered fuels measures are eligible for incentives equal to 75% of their installed costs. Electric measure incentives vary depending on the application, but any approved electric measure cost not covered by an incentive can be paid back, interest free, through National Grid’s on-bill payment system provided that funds are available.

This program was established to support Rhode Island’s thriving and growing agriculture industry and to reduce Rhode Island’s greenhouse gas emissions. As a leading agency in a state with one of the top energy efficiency programs in the country, the Office of Energy Resources was well-positioned to address the needs of this specialized and hard-to-reach sector.

By conducting a state-wide farm energy survey, farmer interest and participation obstacles were clearly identified before the program’s inception. This allowed the OER, in partnership with National Grid, Commerce RI, the Farm Energy Program and other stakeholders, to design a program well-fitted to Rhode Island farmers.

RHODE ISLAND PUBLIC ENERGY PARTNERSHIP

RI OER was awarded a 3-year competitive grant from the U.S. Department of Energy to establish the Rhode Island Public Energy Partnership (RIPEP), a precedent-setting collaboration to achieve deep energy savings in municipal, school, and state facilities. Partners included RI OER, National Grid, URI Outreach Center, Narragansett Bay Commission, Energy Efficiency and Resource Management Council, and other key public and private sector representatives. At the completion of the project in September 2015, RIPEP achieved the following results:

♦ Energy data baseline inventories were established for all public facilities, which includes 546 municipal, 331 school and approximately 900 state facilities, for a total of about 1777 facilities.
♦ 39 energy audits were performed covering over 1.8 million square feet.
♦ 123 energy efficiency projects were implemented for total energy savings of 28.6%. Or 42,869 MMBTU.
♦ 10 renewable energy assessments were completed at water and waste water facilities, which identified 26.8 MW of renewable energy generating potential identified at 10 facilities.
♦ Over $5 million in rebates and on-bill repayment funds were utilized to support project implementation.
♦ Barriers to implementing energy efficiency in the public sector were identified and addressed through solutions including master price agreements, expanded and enhancing financing and incentive options, and extensive technical assistance.

STREET LIGHTING

Customer Owned — Rhode Island municipal customers are now eligible to purchase their own street lights from National Grid. Incentives are being offered for solid state lighting and controls, as funding allows. Several municipalities have expressed interest in purchasing their own street lights and converting to solid state, energy efficient products. These municipalities have taken significant steps toward making this transition, and National Grid expects that it will make its

2015 Small C&I Results

- 15,876 Annual MWh Saved
- 187,647 Lifetime MWh Saved
- 4,758 Annual MMBtu Saved
- 46,468 Lifetime MMBtu Saved
- 82,422 Metric Tons of Greenhouse Gas Emissions Avoided
- 4,027 Program Participants
- $28.3 Million in Lifetime Electric Bill Savings
- $425,964 in Lifetime Gas Bill Savings
- $27.5 Million in Total Economic Benefits
first incentive payments for conversion to LED street lighting in 2016. National Grid continues to work closely with the RIOER on this program.

**Company Owned** – The Company will continue investigating whether it is able to offer a rate for company owned street lights where the net cost to the customer is lower than the existing lighting rates.

### LARGE COMMERCIAL AND INDUSTRIAL PROGRAMS

National Grid offers two programs for large commercial and industrial customers with an average monthly peak demand in excess of 200kW. Each program contains a few common elements:

- National Grid offers incentives to reduce the incremental cost barrier to investing in energy efficiency.
- National Grid reduces barriers to participation by offering a range of technical assistance from identifying opportunities to improving a company’s manufacturing process.
- Depending on the program year and budget, National Grid may also have funds available to provide business owners with zero interest loans for a defined period of time with on-bill payback.
- The programs are integrated to offer assistance with gas and electric projects at the same time.

The Commercial New Construction Program encourages energy efficiency in new construction, major renovations, planned replacement of aging equipment, and replacement of failed equipment through financial incentives and technical assistance to developers, manufacturers, vendors, customers, and design professionals. The program includes initiatives such as Combined Heat and Power (CHP), Upstream Lighting, Upstream HVAC, an industrial initiative with world-renowned engineering firm Leidos (formerly SAIC), and training for trade allies among many other efforts. Please see Appendix A for an overview of the Toray CHP project.

The Large Commercial Retrofit Program encourages the replacement of existing equipment and systems with energy-efficient alternatives when the customer is not otherwise planning any investments. The program offers solutions ranging from stream trap repair to multiyear Strategic Energy Management Plans (SEMPs) with some of National Grid’s largest customers.

In 2015, National Grid had several notable developments in the Large Commercial and Industrial space. The Company went broader by expanding the Upstream Products Initiatives, continued its partnership and goals with its two SEMP customers and expanded its reach for its industrial, municipal and grocery customers in addition to the rest of its customer base.

In 2015, National Grid expanded its industrial initiative to all industrial customers in Rhode Island. Through the collective efforts of customers and their contractors, the Industrial Initiative has been an astounding success. The Company visited 40 customer sites, and created a pipeline of 138 applications in various stages of development and completion. Approximately 130 energy efficiency measures were identified of which 93% were non-lighting measures. There is expected to be a 26% estimated increase from 2015 to 2016 in applications under construction. The Company also streamlined its “custom” application approval process to further expedite transactional process with customers.

In 2015, the EnergySmart Grocer (ESG) program focused on seven key strategies to deliver cost effective, comprehensive energy savings in the Grocery market segment. The program had a strong year for independent grocery store performance through upgrades to Dave’s Marketplace, the largest independent grocery

### 2015 Large C&I Results

- **97,126 Annual MWh Saved**
- **1,194,205 Lifetime MWh Saved**
- **185,884 Annual MMBtu Saved**
- **2,012,039 Lifetime MMBtu Saved**
- **615,508 Metric Tons of Greenhouse Gas Emissions Avoided**
- **2,670 Program Participants**
- **$150.3 Million in Lifetime Electric Bill Savings**
- **$19.8 Million in Lifetime Gas Bill Savings**
- **$162.7 Million in Total Economic Benefits**
chain in Rhode Island with nine stores. This chain completed numerous projects during the year and saved over 720,000 kWh with ESG in 2015. This relationship was a major win for both delivering savings and showing that ESG can provide a compelling offer for the independent grocery market sector. With numerous applications for grocery store upgrades both for chains and independent stores, this initiative saved approximately 7 million kWh in 2015.

CROSS-SECTOR PROGRAMS

BLOCK ISLAND SAVES ENERGY EFFICIENCY PROGRAM

In 2015, OER began an initiative to help New Shoreham, also known as Block Island, residents and small businesses improve their energy efficiency and reduce energy costs. During recent years, islanders have paid some of the highest energy prices in the nation. Reliance on local diesel-fired generation and the absence of an interconnection to the New England power grid has left the island’s electric consumers exposed to significant energy price volatility and price differentials when compared to mainland consumers.

Despite this exposure to high energy costs, New Shoreham did not have access to a comprehensive suite of energy efficiency programs, services, or educational tools. For this reason, OER developed and implemented a pilot energy efficiency program to fill this notable void in statewide energy service delivery. Block Island Saves, is designed to reduce New Shoreham small business and year-round resident energy consumption and costs, support the State’s clean energy economy, and shrink the island’s carbon footprint. The program has leveraged the best practices and supply chains fostered by the state’s highly-successful and innovative mainland programs to identify and meet Block Island’s energy efficiency demand.

Working in partnership with National Grid, OER launched a pre-pilot program in 2015 to provide 15 year-round residents and commercial establishments with free, no-obligation energy audits that identified energy efficiency opportunities in homes and businesses; provided access to incentives and rebates; and educated consumers on additional actions that can be taken to reduce their utility bills. The pre-pilot phase was intended to provide OER with an initial opportunity to engage the community; test the program delivery model; and gather valuable insight and data. The pre-pilot results indicated a large potential for both electric and thermal savings and a high interest in energy efficiency on the island. Over 91,000 kWh and 280 MMBtus of annual savings were achieved. For more information on pre-pilot findings, please see OER’s final report on the OER website. Due to the success of the pre-pilot, the program’s design and incentive offerings will remain the same for the remainder of 2016, when Block Island Saves is open to all New Shoreham businesses and year-round residents on a first-come, first-served basis.

BUILDING ENERGY CODES AND APPLIANCE STANDARDS

National Grid’s Codes and Standards (C&S) Initiative saves energy on behalf of ratepayers by creating an environment that achieves the following:

♦ Leads to greater statewide compliance with existing building energy codes.

♦ Directly influences and advocates for stronger statewide appliance standards.

♦ Works with local governments and key stakeholders to adopt a voluntary stretch code.

♦ Encourages code-setting bodies to strengthen energy efficiency regulations.

This initiative spans residential and commercial buildings, new construction, and retrofits of existing buildings. In 2016 and beyond, this initiative will also include both residential and commercial appliances.

National Grid has a long-term strategic plan for advancing the aforementioned goals in 2015-2017 and beyond. In the short-term, National Grid’s goal is to focus on the following: 1) Conducting statewide code compliance training and providing energy code technical support, 2) Development of a stretch code as outlined in Governor Raimondo’s Executive Order dated December 8, 2015, and 3) Collaborative appliance standards advocacy resulting in submitted Legislation for stronger standards.

The Code Compliance Enhancement Initiative (CCEI) began in 2013 and was designed to
increase the ability and desire of architects, engineers, builders, contractors, construction managers, and energy specialists to comply with the locally mandated building energy code, as well as improve the ability of local building code officials to enforce the code. Prior to launching the initiative, a comprehensive study on code compliance in Rhode Island was conducted to establish a baseline and help develop the targeted savings goal. A follow-up commercial compliance study will be conducted in 2016 to gauge the effect that the initiative has had on overall commercial code compliance. A similar follow-up residential code compliance study is planned for 2017.

The code compliance activities that took place in 2015 and which are planned for 2016 are as follows:

- A total of 43 CCEI training events (classroom, on-site, and web-based) were held in 2015 for residential and commercial design, construction, and code enforcement groups. These events attracted 469 residential attendees and 147 commercial attendees. An approximate combined total of 35-40 classroom trainings, on-site trainings, and web-based trainings are targeted for 2016.

- Project-based energy code technical support service for building department staff and project teams to clarify code interpretations, review specific projects, and/or conduct site consultations. The goal of these “circuit riders” is to clarify any confusion or misunderstanding that building design and construction professionals or building code officials may have regarding applicable energy codes, and to support their efforts to better understand and execute code compliant building designs. In 2015, the toll-free “circuit rider” number fielded 28 residential and 8 commercial related telephone inquiries. 9 residential inquiries resulted in field visits to actual job sites or office consultations.

- Support the development and implementation of trainings for third-party energy specialists for residential and commercial buildings. In 2016, it is anticipated that third-party energy specialists will be available for use within the state.

- Develop and update consistent documentation tools such as the RI Residential New Construction Field Guide, technical bulletins (“Build Tight and Ventilate Right”, “Air Sealing for Savings”, Brown University Applied Math Building Tour, etc.), Frequently Asked Questions guides, software tools, checklists, and code check protocols for adoption by

### INCENTIVES BY TOWN

Table 1. National Grid Gas and Electric Energy Efficiency Incentives Provided to Residential, Commercial and Industrial Customers in 2015

<table>
<thead>
<tr>
<th>City/Town</th>
<th>Incentive Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barrington</td>
<td>$ 1,034,136</td>
</tr>
<tr>
<td>Bristol</td>
<td>$ 1,125,403</td>
</tr>
<tr>
<td>Burrillville</td>
<td>$ 311,062</td>
</tr>
<tr>
<td>Central Falls</td>
<td>$ 464,341</td>
</tr>
<tr>
<td>Charlestown</td>
<td>$ 331,971</td>
</tr>
<tr>
<td>Coventry</td>
<td>$ 2,603,050</td>
</tr>
<tr>
<td>Cranston</td>
<td>$ 6,568,337</td>
</tr>
<tr>
<td>Cumberland</td>
<td>$ 2,798,095</td>
</tr>
<tr>
<td>East Greenwich</td>
<td>$ 1,467,397</td>
</tr>
<tr>
<td>East Providence</td>
<td>$ 3,625,883</td>
</tr>
<tr>
<td>Exeter</td>
<td>$ 286,387</td>
</tr>
<tr>
<td>Foster</td>
<td>$ 194,162</td>
</tr>
<tr>
<td>Glocester</td>
<td>$ 304,329</td>
</tr>
<tr>
<td>Hopkinton</td>
<td>$ 175,842</td>
</tr>
<tr>
<td>Jamestown</td>
<td>$ 328,085</td>
</tr>
<tr>
<td>Johnston</td>
<td>$ 1,951,396</td>
</tr>
<tr>
<td>Lincoln</td>
<td>$ 2,959,159</td>
</tr>
<tr>
<td>Little Compton</td>
<td>$ 300,275</td>
</tr>
<tr>
<td>Middletown</td>
<td>$ 1,198,721</td>
</tr>
<tr>
<td>Narragansett</td>
<td>$ 2,292,852</td>
</tr>
<tr>
<td>Newport</td>
<td>$ 4,417</td>
</tr>
<tr>
<td>New Shoreham</td>
<td>$ 2,330,975</td>
</tr>
<tr>
<td>North Kingstown</td>
<td>$ 7,785,697</td>
</tr>
<tr>
<td>North Providence</td>
<td>$ 1,179,683</td>
</tr>
<tr>
<td>North Smithfield</td>
<td>$ 1,032,435</td>
</tr>
<tr>
<td>Pawtucket</td>
<td>$ 3,744,083</td>
</tr>
<tr>
<td>Portsmouth</td>
<td>$ 1,040,652</td>
</tr>
<tr>
<td>Providence</td>
<td>$ 14,846,361</td>
</tr>
<tr>
<td>Richmond</td>
<td>$ 218,145</td>
</tr>
<tr>
<td>Scituate</td>
<td>$ 749,557</td>
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<tr>
<td>Smithfield</td>
<td>$ 2,392,203</td>
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<tr>
<td>South Kingstown</td>
<td>$ 556,861</td>
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<tr>
<td>Tiverton</td>
<td>$ 938,471</td>
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<tr>
<td>Warren</td>
<td>$ 564,169</td>
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<tr>
<td>Warwick</td>
<td>$ 8,399,916</td>
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<tr>
<td>West Greenwich</td>
<td>$ 415,379</td>
</tr>
<tr>
<td>West Warwick</td>
<td>$ 1,764,683</td>
</tr>
<tr>
<td>Westerly</td>
<td>$ 1,222,550</td>
</tr>
<tr>
<td>Woonsocket</td>
<td>$ 2,900,985</td>
</tr>
<tr>
<td><strong>Grand Total</strong></td>
<td><strong>$ 82,408,105</strong></td>
</tr>
</tbody>
</table>
jurisdictions as a mean of code compliance enhancement.

- Continued collaboration with the Rhode Island Office of Energy Resources (RI-OER), Northeast Energy Efficiency Partnership (NEEP), and Appliance Standards Awareness Project (ASAP) to further appliance standards advocacy as well as submit a model package of appliances for considering as Legislation in 2016.

**SYSTEM RELIABILITY PROCUREMENT**

On December 16, 2015, the PUC approved National Grid’s 2016 System Reliability Procurement Report which included a detailed 2016 plan for the DemandLink™ pilot. The DemandLink™ pilot, which began in 2012, is designed to defer the need for a new substation feeder in the Tiverton/Little Compton region by at least 4 years through targeted energy efficiency and demand response technologies that aim to reduce loads primarily related to air conditioning and water heating.

Load growth in the Tiverton area had the potential to create overloads of National Grid equipment beginning in 2014. These overloads were projected to occur in the summertime and the utility projected the need for an additional feeder from the substation serving the Tiverton area on or before 2014. If the pilot is successful in enrolling and providing up to one megawatt (MW) of sustained load relief by the end of 2017, it will defer the construction of a new substation feeder, which is estimated to cost $2.6 million, until at least 2018. Deferring the new feeder through the use of energy efficiency and demand response allows the utility to better utilize its capital and construction resources and provides for a more effective use of the distribution system. It is possible that the new feeder could be avoided altogether if localized load patterns change in significant and unanticipated ways.

In 2015, National Grid began targeting water heating loads by offering an enhanced incentive for customers replacing an electric water heater with a heat pump water heater. In addition, National Grid continued with the same incentives and marketing strategies that targeted air conditioning loads. These include a no-cost, fully-installed wi-fi thermostat and plug devices for their air conditioning units if they agreed to participate in an opt-out demand response program for at least two years. Additionally, rebates were available for purchasing new, Energy Star rated window AC units and recycling old window AC units. A robust, direct, marketing campaign anchored by another outbound calling effort.

It is expected that the 2016 SRP investments will create or focus a combined annual summer demand savings of 170 kW and for the residential and commercial and industrial sectors in the Tiverton/Little Compton area. This annual target will result in approximately 860kW of peak load relief for the pilot area. In 2016, the pilot will create $1.12 of economic benefits for every $1 invested.

**NATIONAL GRID ENERGY EFFICIENCY JOBS STUDY**

National Grid hired Peregrine Energy Group, Inc. to conduct a study of the job impacts from National Grid’s energy efficiency programs in 2015. The study estimates the number of full-time equivalent (FTE) employees engaged in all aspects of energy efficiency programs where National Grid provided funding support in 2015. The FTE counts cover a wide range of energy efficiency services, including independent contractors and plumbers, rebate processors, engineers, and National Grid Staff. The study also includes counts of Weatherization Assistance Program (WAP) FTEs that are employed by the Community Action Program agencies that deliver low-income energy efficiency services. A complete list of all contractors and subcontractors involved in 2015 Rhode Island energy efficiency programs is included in the appendix of this report.

The study’s findings were developed through interviews with energy services and equipment vendors and National Grid contractors, as well as through a detailed review of National Grid’s records of all energy efficiency measures installed in homes, apartment buildings, businesses, and industries throughout the state in 2015. Peregrine Energy Group calculated the labor hours required for each installation based
Peregrine determined that 695.8 full-time equivalent (FTE) employees had work in 2015 as a result of investments by National Grid in energy efficiency programs provided to its Rhode Island electricity and natural gas customers. One FTE equals 1,760 work hours, or the total of one person working 8 hours a day for 220 work days in an average year. Because a “full-time equivalent” employee often represents the labors of more than one person over the course of a year, the number of individual workers employed as result of Rhode Island energy efficiency programs funded by National Grid is far larger than the total of FTEs. Most of the jobs created as a result of energy efficiency investments were local because they were tied to installation of equipment and other materials.

The study also identified 1,009 companies and agencies involved in National Grid’s 2015 energy efficiency programs, 79% of which were located in Rhode Island. The companies identified include those whose employees are counted in the FTE analysis, as well as additional companies who assisted customers to secure equipment rebates, for example through the New Construction, Commercial Upstream Lighting, or High Efficiency HVAC programs.

The study fulfills General Law 39-2-1.2, which was enacted by the General Assembly in 2012. The study will benefit those who work in workforce development, training or those interested in the state’s green jobs.

### Full-Time Equivalent Employment Supported by Energy Efficiency Programs in Rhode Island in 2015

<table>
<thead>
<tr>
<th>Programs</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Electric Programs</strong></td>
<td></td>
</tr>
<tr>
<td>Commercial and Industrial</td>
<td>210.00</td>
</tr>
<tr>
<td>Residential Income Eligible</td>
<td>37.00</td>
</tr>
<tr>
<td>Residential Non-Income Eligible</td>
<td>125.40</td>
</tr>
<tr>
<td><strong>Gas Programs</strong></td>
<td></td>
</tr>
<tr>
<td>Commercial and Industrial</td>
<td>32.00</td>
</tr>
<tr>
<td>Residential Income Eligible</td>
<td>43.80</td>
</tr>
<tr>
<td>Residential Non-Income Eligible</td>
<td>172.1</td>
</tr>
<tr>
<td>National Grid EE Staffing</td>
<td>41.60</td>
</tr>
<tr>
<td>WAP/LIHEAP Income Eligible</td>
<td>34.00</td>
</tr>
<tr>
<td><strong>Total 2015 Rhode Island FTEs</strong></td>
<td>695.80</td>
</tr>
</tbody>
</table>
the state’s electric grid and grid decision-makers. These trends are important to the EERMC because of their potential make our energy system more efficient, cleaner, and lower cost than it otherwise might be in the future. In order to better understand the challenges and opportunities of our changing energy system, representatives from the OER, EERMC, Distributed Generation Board, and National Grid convened the Systems Integration Rhode Island (SIRI) working group in 2014. SIRI’s purpose is to identify key issues related to the future of Rhode Island’s electric grid and offer recommendations for addressing opportunities, filling gaps, and gaining efficiencies in existing state processes.

The SIRI group presented the “Systems Integration Rhode Island Vision Document” in January 2016. This report describes SIRI’s goals and principles; identifies and describes over a dozen existing processes impacting our energy system; and offers recommendations related to utility planning, solar PV, electric heating and transportation, and smart management of electric usage. The SIRI group hosted a stakeholder meeting to present the report and the Vision Document includes stakeholder feedback.

The SIRI group continues to work to clarify and refine its recommendations and is being assisted by staff from the Division of Public Utilities and Carriers and the Public Utilities Commission.

**THERMAL WORKING GROUP**

Delivered fuels play a central role in the thermal sector of Rhode Island’s energy economy. Nearly 40% of Rhode Island homes and businesses use delivered fuels for heating. Despite the prevalence of these fuels, little dedicated energy efficiency program funding exists to serve delivered fuel customers—even though the state currently ranks as a national leader in energy efficiency. This gap creates recurring uncertainty in funding availability and scope and precludes the ability to plan and offer energy efficiency services for delivered fuel customers at levels comparable with Least Cost Procurement electric and gas programs.

To address these challenges, the Rhode Island Office of Energy Resources (OER) established a Thermal Working Group in 2014 with the purpose of evaluating how the state can better extend the full benefits of energy efficiency to delivered fuel heating customers. The Thermal Working Group conducted three information-gathering efforts in support of developing a plan to achieve a cleaner and more efficient delivered fuels sector:

1) **Rhode Island Delivered Fuel Market Assessment**: to better characterize the current energy efficiency for delivered fuels in Rhode Island is underfunded compared to electricity and natural gas, despite expenditures on delivered fuels accounting for nearly a quarter of all energy spending.

![](chart.png)

*Source: EIA SEDS, National Grid 2013 Annual Report. Total delivered fuels EE funding in 2013 was estimated at $1.6 million.*

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delivered fuels market in Rhode Island, and to understand the costs, savings, and economic benefits of improving energy efficiency services for delivered fuels customers;

2) **Delivered Fuels Jurisdictional Comparison for the Northeast:** to evaluate delivery and funding mechanisms for delivered fuels energy efficiency services that are planned or active in other states; and

3) **Delivered Fuels Policy and Funding Options:** to vet Rhode Island’s options for raising long-term funding to invest in delivered fuel energy efficiency.

The Working Group’s research culminated in a report released in 2015 intended to inform future policy and programs for investing in all cost-effective delivered fuel energy efficiency in Rhode Island. The Working Group’s research drew the following conclusions:

- Significant energy efficiency potential exists in Rhode Island’s delivered fuels sector. Investing in this efficiency is projected to provide substantial consumer, economic, and environmental benefits that outweigh the costs.
- There are examples of many other states in the region that provide energy efficiency services for delivered fuels customers, supported by a variety of funding sources.
- Several viable options exist for securing sustainable funding sources for delivered fuels efficiency, yet none will be easy to establish. Future plans to help scale delivered fuels energy efficiency should involve a close partnership with the Rhode Island fuel dealer industry, who can be a valuable partner in the State’s vision for a secure, cost-effective, and sustainable energy future.

For more information on the Thermal Working Group, please visit: www.energy.ri.gov/efficiency/thermal.
2016 ENERGY EFFICIENCY PROGRAM PLAN HIGHLIGHTS:
RESIDENTIAL PROGRAMS

MULTIFAMILY INITIATIVE

For 2016, National Grid has created a Multifamily Working Group comprised of some of the state’s leading thinkers and stakeholders in the arena. The purpose is to discuss best practices and new opportunities for program design. The Company will continue to investigate strategies that provide the opportunity for a more cost-effective and simplified delivery of efficiency services by building on the results of the benchmarking pilot, and examining the potential to provide customers with in-unit service in the event that the entire building does not have an energy assessment or go through with any recommendations. National Grid will investigate further benchmarking of low income buildings for the second half of 2016 and will engage condominium boards and owners through the Company’s community and behavioral initiatives.

REACHING NEW BUILDING TYPES

In 2015, the Residential New Construction program will expand program services into the mid-high rise building sector. In addition, the Company will develop a working group to create a preliminary structure for the development of a Zero Energy-Ready Home Program.

ENERGY STAR® LIGHTING

In 2016, the ENERGY STAR Lighting program will continue the upward trend of supporting more LED incentives with 57% of the portfolio made up of LED lighting products.

INCOME ELIGIBLE ENHANCEMENTS

The program will continue to increase services that deliver significant energy savings such as LEDs, heat pump water heaters, and replacement room air conditioners. The Company will also assess the potential for savings in mobile homes and improving deliver to residential 3-4 unit buildings.

COMMUNITY INITIATIVE

The Find Your Four! program is growing to six new cities in towns in 2016 from different geographic areas of the state. While National Grid will still be asking individuals to pledge to find four ways to save energy, it will begin to make targeted asks this year with a goal of increasing program participation in several areas. Asks will include filling out the online home energy assessment through the new website portal and signing up for the EnergyWise program in Tiverton and Little Compton. The Company will also investigate building on the success of the 2014-15 Video Challenge by asking NEED educators to engage their students in friendly competitions at school and at home.

HOME ENERGY REPORTS

The Home Energy Reports program will continue to evolve in 2016 to offer even more value for customers. The Company will still offer the print and digital reports, along with the New Mover’s program, but will grow the Points and Rewards component in 2016 to allow more Rhode Islanders to earn one point for every kWh saved and the possibility of turning that saving into real dollars that can be contributed to charity. Further, the Company will begin to provide the digital Home Energy Report 2.0 that includes in depth details about a customer’s consumption and can be tailored to provide an even more personal experience.

BEHAVIORAL DEMAND RESPONSE

The Residential team will support the efforts of the DemandLink program in Tiverton and Little Compton over the summer by creating on-the-ground interactions through the Find Your Four program in order to drive more participation in Home Energy Assessments. National Grid will investigate the opportunity of merging behavioral messaging, as seen on the Home Energy Reports, with the Company’s increased focus on leveraging the benefits of Wi-Fi thermostats. This strategy has the potential to help alleviate the effects of winter peak demand for natural gas and summer peak demand for electricity.
2016 ENERGY EFFICIENCY PROGRAM PLAN HIGHLIGHTS: COMMERCIAL, INDUSTRIAL, & PUBLIC PROGRAMS

STREET LIGHTING
The Company will continue investigating whether it is able to offer a rate for company owned street lights. Once this filing is approved by the RIPUC, if the municipal customer prefers to continue leasing their street lights from National Grid, the customer will receive the incentive and the Company will claim the savings.

COMMERCIAL PROPERTY ASSESSED CLEAN ENERGY (C-PACE)
National Grid is working closely with the Rhode Island Infrastructure Bank (RIIB) to create a dynamic C-PACE program. National Grid thinks that this exciting new financing model will spur customers to action, encourage broader and deeper measures, and possibly even revive projects that were abandoned due to inability to finance the entire deal.

ZERO ENERGY BUILDINGS (ZEB) TASK FORCE
In 2016, the Company will continue to lead and facilitate the Zero Energy Building (ZEB) taskforce consisting of key stakeholders from the State, associations, architects/engineers and developers. In 2016, there is a deliverable for a White Paper that recommends policies, incentives, education, financing and partnerships that will help to foster the growth of the residential and commercial ZEB market in Rhode Island.

ENERGY EFFICIENCY INTEGRATION WITH SOLAR
Similar to the residential program, the Commercial and Industrial program will collaborate with RIOER to align energy efficiency incentives to drive more solar installations within the ReGrowth statute. The concept for energy efficiency and solar collaboration, and effort termed, “SolarWise”, will use high energy efficiency as the eligibility criteria for a customer to receive an additional solar incentive on top of the standard ceiling price for solar incentives.

Alignment of financial incentives can help to bring new customers to both the energy efficiency and solar markets and move the market closer to Zero-Energy buildings in the future. A tiered approach for solar incentives may be developed for new construction projects based on energy savings as a percentage better than code and retrofit projects based on percent increase over existing performance.
Appendix A:

Case Studies
Results to write home about.

Wethersfield Commons residents invested in energy efficiency for increased energy savings and condo comfort.
It’s said there’s always room for improvement – and even the residents of a luxurious condo development can agree.

In this case, improvement came in the form of specific energy efficiency upgrades. Find out how Wethersfield Commons residents decreased their energy bills while enhancing their homes.

A quick tour of Wethersfield Commons

Set on 65 lush, green acres in Warwick, Rhode Island, the Wethersfield Commons condominium development has 493 units within 101 buildings that are now over 40 years old. More than 700 residents call Wethersfield Commons home. From tennis courts to a swimming pool to an on-site library, residents enjoy a variety of amenities. There are electric-only and electric and gas units available.

Turning their attention to energy efficiency, again

About eight years before these 2015 upgrades began, residents had the opportunity to participate in an energy efficiency program established by National Grid in partnership with their lead vendor, RISE Engineering. Those residents who participated and invested in energy efficiency upgrades saw impressive results. Residents who didn’t participate wished they had. Those results and a harsh 2014 winter (leading to some buildings sustaining damage from ice damming) prompted residents to once again ask for the property-wide energy efficiency program – and management listened. In fact, Wethersfield Commons not only organized the program with National Grid and RISE Engineering, but also promoted it heavily to all residents.

The perfect process

In collaboration with National Grid, RISE contractors completed the upgrades for participating residents, which included adding attic insulation and sealing air leaks throughout their units. National Grid provided sizable incentives to drastically reduce out-of-pocket costs for residents. The program covered 75 percent of the cost of insulation, up to $2,000 per unit. The air sealing was done at no cost. In addition, numerous complimentary energy-saving measures were installed. Contractors switched out old bulbs for LEDs and installed programmable thermostats, smart power strips, low-flow showerheads and faucet aerators. Upgrades were made to more than 150 units.

Win-win results

After completing various energy-saving projects, residents and the Wethersfield Commons Condo Association both benefited. Residents saved money on energy costs and realized several non-energy benefits. The association was able to keep certain condo fees down, as well as help owners looking to sell their condos, as increased energy efficiency is appealing to buyers.

“For residents, it was a minimal investment for maximum benefits.”

– Gina Vigliotti, Wethersfield Commons Property Manager

“Every day at National Grid, we work with stakeholders to implement sustainable energy solutions. This project with Wethersfield Commons is a shining example.”

– Elizabeth Terry, Program Manager, National Grid
The upgrades completed by National Grid and RISE Engineering produced significant energy savings:

Total Project Cost  $314,059
National Grid Incentive  $292,155
Total Contribution by All Participating Residents  $21,904
Energy Savings  299,846 kWh, 9,959 therms

On top of lower utility bills, residents also enjoy these three upgrade benefits:

1. Greater home comfort
   • Achieved by: Air sealing, attic insulation (for units with gas or electric), programmable thermostats and LED lighting.
   • How: Sealing air leaks keeps the cold air out in the winter and the hot air out in the summer, making homes more comfortable. The same can be said for attic insulation. Insulation is also proven to prevent ice damming. Programmable thermostats enable residents to easily control the temperature of their condo based on their schedule and preferences. LED bulbs provide bright, natural, instant-on light. Switching to LEDs can make activities like reading easier for the eyes.

2. Increased convenience
   • Achieved by: Programmable thermostats and smart power strips.
   • How: Both of these devices give residents more control. Programmable thermostats enable control through preset temperature settings, automatically adjusting the temperature to meet the residents’ needs.
   
   Using smart power strips is a simple way to curb your devices’ electricity consumption. Many people either forget to or don’t turn off their electronics when they’re not in use. Even if they are turned off, they can continue to draw power. Smart power strips conserve power when devices are idle – with no effort from the homeowner.

3. Improved safety
   • Achieved by: 200 lamppost light bulbs replaced with LEDs and in-unit light bulbs changed to LEDs
   • How: LEDs’ bright, directional light make them an ideal choice for outdoor lighting. Not only does the brighter light make some residents feel safer, but it can actually deter criminals from taking action. LEDs are also cool to the touch. Traditional incandescent bulbs become quite hot, which can cause burns and increase the risk of fire.

“Every time we’ve gone to Wethersfield Commons, we’ve had good success.” - Matt Picozzi, Coordinator Multifamily Services, RISE Engineering
Thanks to the program’s popularity and success, this won’t be the last opportunity to take advantage of these energy efficiency upgrades.

Wethersfield Commons, National Grid and RISE Engineering plan to offer this program to residents again in the future.

“The people who didn’t participate keep calling the office asking when the program will be available again.” – Gina Vigliotti

Your multifamily buildings – and tenants – could experience these same energy efficiency benefits.

National Grid is ready to help you get started. We have the financial incentives and technical support you need to successfully complete your upgrades. Please call the phone number below and ask for the Multifamily Coordinator.

Connect with us today: 800-594-7277 energysavings@ngrid.com ngrid.com/business
The Masters Family
A better home with energy upgrades

Jane and Dean Masters moved into their 95-year-old Providence home 14 years ago and have been restoring it ever since. They knew the two-story Cape had little insulation, and their winter heating bills were high. “It’s a small house, but some months we were spending $450 on oil,” said Jane.

So when the Masters decided to convert their home from oil to natural gas, they reached out to National Grid for help making their home more energy efficient. The first step was a no-cost home energy assessment. An Energy Specialist did a whole home inspection, provided them with instant energy saving measures including LED bulbs and advanced power strips, and recommended air sealing, insulation in their exterior walls and attic, and a high efficiency heating system.

With the help of contractors and National Grid, the Masters made all the improvements. “Everyone was really efficient, very professional, and clearly experienced. They guided us through the process very well,” said Jane. Incentives from National Grid covered more than half the cost of weatherization, and a 0% interest HEAT Loan made the remaining cost of heating upgrades and weatherization more manageable.

“In the winter, we used to wear extra layers, plus we used an electric blanket and heated mattress pad at night. We kept the house at 58° to save on heating. Now, we’re so much more comfortable and energy costs us much less.” In fact, the Masters are saving $480 a year from weatherization work alone.

“Now, we’re so much more comfortable and energy costs us much less.”

There are benefits the Masters never expected, too. “We hear less noise from the street thanks to the insulation. Plus, our home has increased in value, and we feel like it’s a better investment. We love our house now,” shared Jane.

“To anyone who’s considering having a home energy assessment, do it. Your house will be more comfortable, saving energy can save you money and it’s good for the environment, and there are people here to help you.”

To sign up for a no-cost energy assessment and learn more about our financing options and savings opportunities, visit ngrid.com/ri-home or call 888-633-7947.

<table>
<thead>
<tr>
<th>Home</th>
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<tbody>
<tr>
<td>Two-story Cape built in 1919</td>
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<tr>
<th>Efficiency Measures</th>
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<tbody>
<tr>
<td>Air sealing</td>
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<tr>
<td>Exterior wall and attic insulation</td>
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<tr>
<td>Two heating systems</td>
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<tr>
<td>LEDs and advanced power strips</td>
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<tr>
<th>Project Cost</th>
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<tr>
<td>$3,952 for weatherization</td>
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<tr>
<td>$2,321 covered by National Grid incentives</td>
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<tr>
<td>0% HEAT Loan for remaining weatherization and heating system costs ($20,398)</td>
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<td>$242.83 a month</td>
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<tr>
<th>Estimated Weatherization Savings</th>
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<td>$480 per year</td>
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<table>
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<tr>
<th>Estimated Heating Savings</th>
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<td>$310 per year</td>
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Toray Plastics America, Inc.

Toray Plastics, located in North Kingstown, Rhode Island, consists of the Torayfan® Polypropylene Film and Lumirror® Polyester Film Divisions. As the only U.S. manufacturer of precision-performance polyester, polypropylene, metallized, and bio-based films, the Company produces 188 million pounds of film annually for flexible and rigid packaging, lidding, graphic, industrial, optical, and electronic applications.

Energy Efficiency Solutions

In March 2012, Toray, Waldron Engineering, and National Grid jointly participated in a Technical Assistance (TA) Study to investigate the optimal combined heat and power (CHP) system for Toray based on their 2011 energy usage and anticipated energy and preventive maintenance costs, as an eligible custom energy efficiency measure in National Grid’s Commercial and Industrial Retrofit program.

The TA Study concluded that the optimal CHP system was a pair of Kawasaki reciprocating engines, a 5 megawatt (MW) engine and a 7.5 MW engine, providing 12.5 MW of cogeneration while generating 11,500 Pounds per Hour of 135 psig steam and 1,000 Tons of chilled water.

Starting with the 2013 Energy Efficiency program plan, National Grid began providing incentives to encourage the development of efficient CHP facilities of any size in Rhode Island, consistent with legislation passed in 2012, subject to certain eligibility and cost effectiveness criteria. National Grid provided a $15.9 million incentive package that covered 70% of the project’s total cost. The project is expected to provide over 80,000 MWh of net annual savings and conserve approximately 65,000 decatherms of natural gas per year.

The result:

<table>
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<th>The result:</th>
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<tr>
<td>Project Cost</td>
<td>$22.7 million</td>
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<tr>
<td>National Grid Incentive</td>
<td>$15.9 million</td>
</tr>
<tr>
<td>Annual MWh Savings</td>
<td>80,000</td>
</tr>
<tr>
<td>Annual Electric Cost Savings</td>
<td>$6.9 million</td>
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This list includes contractors and subcontractors performing work directly for National Grid Energy Efficiency programs in 2015 that were counted in the FTE analysis and additional companies who assisted customers to secure equipment rebates, for example through the New Construction, upstream commercial lighting, or High Efficiency HVAC programs. The list also includes the Community Action Program agencies and their subcontractors involved with the delivery of the low-income program, whether under National Grid funding or WAP/LIHEAP/ARRA funding.

Of the 1,009 companies, agencies, contractors and sub-contractors listed here, 793 (79%) are either headquartered in Rhode Island, or have a physical presence in Rhode Island. The list is organized alphabetically by state and then alphabetically by company name.

Accurate Background, Inc. - Irvine, CA
Bigskip Inc. - Santa Barbara, CA
Energy Efficiency Funding Group Inc. - San Francisco, CA
Interviewing Service of America - Van Nuys, CA
Nest Labs Inc. - Palo Alto, CA
Regency Lighting - Chatsworth, CA
Waypoint Building Group - San Francisco , CA
Heschong Mahone Group Inc. - Gold River, CA
Apex Analytics - Boulder , CO
E Source Companies LLC - Boulder , CO
AMCO and Co. - Dayville, CT
AMS Greensolutions LLC - Willington, CT
Best Energy Plumbing Heating Air Conditioning - Pawcatuck, CT
Competitive Resources Inc. - Yalesville, CT
D Mac and Son - Mosaicp, CT
DDLC Energy - New London, CT
George Chartress - Norwich, CT
Greenleaf Energy Solutions - Oxford, CT
Harrington Plumbing and Heating - Pawcatuck, CT
Irvin McLaughlin Ebd - North Grosvenor Dale, CT
JK Muir LLC - Durham, CT
Lanter Energy, LLC - Norwich, CT
Nick Zaharie - Pawcatuck, CT
Shannon NRG Resource - Waterbury, CT
Techniart Inc. - Collinsville, CT
Upland Construction Group - North Stonington, CT
Watt’saver Lighting Products Inc. - East Hartford, CT
WJR Plumbing and Heat - Voluntown, CT
American Council for an Energy-Efficient Economy - Washington, DC
Energy Solutions Center - Washington, DC
Smartpower - Washington, DC
A Led Lights LLC - Jacksonville , FL
Apollo Lighting - Fort Lauderdale, FL
Green Lumens LLC - Boca Raton, FL
Pro. Unlimited Inc. - Boca Raton, FL
Hill Phoenix Inc. - Conyers, GA
National Energy Educational Development Need - Manassas, GA
Innerworkings Inc. - Chicago , IL
Gexpro - Indianapolis, IN
3-D Lighting - Franklin , MA
A Plus J Home Air - Attleboro, MA
Action Inc. - Fall River, MA
Advanced Plumbing and Heating - Seekonk, MA
Alternative Creative Energy and HVAC Inc. - Blackstone, MA
Alternative Weatherization, Inc. - Fall River, MA
American Plant Maintenance - Woburn, MA
Ancil Plumbing and Heating Inc. - Somerset, MA
Andelman and Lelek Engineering Inc. - Norwood, MA
Anthony F Vieira III Heating and Air Conditioning - Attleboro, MA
Apollo Brothers LLC - Fitchburg, MA
Araujo Bros Plumbing and Heating - New Bedford, MA
B2Q Associates Inc. - Andover, MA
Backlund Electric Corporation - Norfolk, MA
BDL Heating and Cooling Inc. - North Attleboro, MA
Beaupre Electric - Assonet, MA
Ben Therrien Home Improvement - Attleboro, MA
Bob Costa - Seekonk, MA
Briggs Mechanical Inc. - North Attleboro, MA
Bruin Corp. - North Attleboro, MA
Building Science & Construction - Braintree, MA
C & S Electric - Groveland, MA
Caliber Building and Remodeling - Sandwich, MA
Camaras Heating and Air Conditioning Services - Westport, MA
Center for Ecological Technology - Florence, MA
Champion Resources - Ipswich, MA
Cloud Sherpas LLC - Boston, MA
Columbus Energies Inc. - Swansea, MA
Compressed Air Technologies Inc. - Shutesbury, MA
Conservation Services Group Inc. - Westborough, MA
Consolidated Marketing Services - Burlington, MA
Consortium For Energy Efficiency - Boston, MA
Controlled Temperature Heating & AC - Westport, MA
Conventures Inc. - Boston, MA
Coolidge Coolant Company Inc. - Waltham, MA
Copland Mechanical Services Inc. - South Attleboro, MA
Copperline Plumbing and Heating - Rehoboth, MA
Dalpes P and M Services Ltd - Bellingham, MA
Datasense Solutions Inc. - Waltham, MA
Deschenes Plumbing and Heating - North Attleboro, MA
DMI - Wellesley, MA
Don Dalpe Plumbing - Blackstone, MA
Douglas Ahaesey Electric - Fall River, MA
DW Smith Plumbing and Heating HVAC - Uxbridge, MA
E & V Oil Co Inc. - Swansea, MA
Ecast Video LLC - Boston, MA
Ecova Inc. - Boston, MA
Einhorn Yaffee Prescott Architecture - Boston, MA
EM Corbeil Inc. - Millville, MA
ENE Systems Inc. - Canton, MA
Energy & Resource Solutions Inc. - North Andover, MA
Energy Federation Inc. - Westborough, MA
Engineered Solutions Inc. - Natick, MA
Ferreira Builders - Attleboro, MA
FL Machado Plumbing and Heating LLC - Seekonk, MA
Forest Hills Electrical Supply Inc. - Randolph, MA
GH Electrical Service - Attleboro, MA
GM Refrigeration - Fall River, MA
Graybar - Boston, MA
Greenleaf Associates Inc. - Weston, MA
Gustave Mattos Electric Co Inc. - Fall River, MA
Heating and Air Conditioning Contractors - Swansea, MA
HVAC 360 - Rehoboth, MA
IBM Corp. - Cambridge, MA
Indresano Energy Company - Wellesley Hills, MA
Inline Plumbing and Heating - Fall River, MA
Insulate 2 Save - Fall River, MA
Jaco Environmental - Franklin, MA
Jaquez General Contractor - Lynn, MA
Jarosz Plumbing and Heating - Rehoboth, MA
Jay Sheldons Heating - Seekonk, MA
JPS Plumbing Heating and Air Conditioning - Westport, MA
KEMA - Burlington, MA
Larrys Heating and Ac - Rehoboth, MA
Lavoie - Seekonk, MA
Lewis Rheaume Plumbing and Heating - Seekonk, MA
Litemor - Norwood, MA
Lockheed Martin - Burlington, MA
LS Heating and Air Conditioning - Seekonk, MA
M & M Plumbing and Heating Inc. - Rehoboth, MA
M Sardinha and Sons Plumbing and Heating Inc. - Fall River, MA
Marc's Sheet Metal Inc. - Assonet, MA
Mark Cordery HVAC - Berkley, MA
Matt Machado Plumbing and Heating - Dighton, MA
MJ Electric and Refrigeration LLC - Rehoboth, MA
Motus LLC - Boston, MA
National Resource Management - Canton, MA
NESCO - Canton, MA
New Ecology Inc. - Boston, MA
New England Energy Management Inc. - Leominster, MA
New England Weatherization, LLC - Attleboro, MA
Nexant Inc. - Burlington, MA
Next Step Living - Boston, MA
Northeast Efficiency Supply (NES) - Sutton, MA
Northeast Electrical and Mechanical Services Inc. - Walpole, MA
Northeast Energy Efficiency Partnerships - Lexington, MA
O'Brien & Neville Inc. - Holliston, MA
Olean Mechanical - Seekonk, MA
O'Neil Mechanical Services - Seekonk, MA
Opinion Dynamics Corporation - Waltham, MA
Opterra Energy Services - Norwell, MA
P & P Plumbing - West Roxbury, MA
Pacheco-Cooke Electrical - North Attleboro, MA
Patriot Sheet Metal HVAC - Seekonk, MA
Paul Whitman Electrical - Pembroke, MA
Peregrine Energy Group - Boston, MA
Propane Plus Heating and Cooling - Rehoboth, MA
Quality Climate Control Inc. - Fall River, MA
Rebello Weatherization Inc. - Swansea, MA
Reis Electric - Westport, MA
Rethinking Power Management - Boston, MA
Retrocool Energy Inc. - Natick, MA
Retrofit Insulation - Fall River, MA
Rhode Island Sheet Metal LLC - Rehoboth, MA
Rickard and Sons Plumbing and Heating - Seekonk, MA
Ritchie's Insulation - Westport, MA
River Energy Consultants - Fall River, MA
Robert Main - Seekonk, MA
Roia Jason Electrical - North Dartmouth, MA
Ronald Houde - Somerset, MA
Sacks Exhibits - Wilmington, MA
Savio Lighting - Needham, MA
Southeastern Gas Services LLC - Swansea, MA
Standard Electric - Wilmington, MA
Steam Trap Systems - Amesbury, MA
Sylvia Contracting - Acushnet, MA
Tetra Tech Ma Inc. - Boston, MA
The Cadmus Group Inc. - Waltham, MA
The Gas Man - Brockton, MA
The Heating Man - Rehoboth, MA
The Royal Flush Plumbing Inc. - Seekonk, MA
Theroux Mechanical - South Attleboro, MA
TJ's Plumbing and Heating Inc. - Attleboro, MA
TNZ Energy Consulting Inc. - Stoughton, MA
Triangle Refrigeration - Fall River, MA
Valley Plumbing and Heating - Kingston, MA
Vaughan Plumbing - Dedham, MA
Veolia ES Technical Solutions LLC - Boston, MA
Watermark Electric Co - Somerset, MA
Wayne Griffin Electric Co - Holliston, MA
Weston & Sampson Cmr, Inc. - Peabody, MA
Bulbs.Com - Worcester, MA
Earth Networks Inc. - Germantown, MD
Boyko Engineering Inc. - Gorham, ME
Douglas C Baston - Alna, ME
Controltec LLC - Allen Park, MI
Energy Management Collaborative LLC - Plymouth, MN
Compressor Energy Service - Merrimack, NH
FW Webb - Amherst, NH
IMMI (International Marketing Management, Inc.) - Portsmouth, NH
KT&T Distributors Inc. - Nashua, NH
Weller & Michal Architect - Harrisville, NH
Clear Energy LLC - Bloomfield, NJ
CMC Energy Services Inc. - Cranbury, NJ
Ideas Agency Inc. - Blairstown, NJ
Russell Marketing Research - East Rutherford, NJ
SHI International Corp. - Somerset, NJ
AM Home Delivery - Brooklyn, NY
Edoe Inc. - New York, NY
Illuminating Engineering Society - New York, NY
Integral Group - New York, NY
Integrated Marketing Services Inc. - Liverpool, NY
MRY US LLC - New York, NY
Owens Kopilak Klein Lurie - New York, NY
Ram Marketing - Saint James, NY
SPPRO Inc. - Bronx, NY
Questline Inc. - Columbus, OH
Ecobee Inc. - Toronto, ON
Real Winwin Inc. - Philadelphia, PA
2 Sons Electric LLC - East Providence, RI
2Story Design Build - Providence, RI
3Js Plumbing - Warwick, RI
A & C Burner Service HVAC - East Providence, RI
A & I Electric - Pawtucket, RI
A & J Electric - Cranston, RI
A & L Plumbing Mechanical and Consulting - Westerly, RI
A & M Compressed Air Products Inc. - Providence, RI
A & T Construction - Warren, RI
A E Costa Electrical Contractor LLC - Warwick, RI
A Perry Plumbing and Heating - Coventry, RI
A Rooter Man Plumbing Heating Drains - Providence, RI
A.R. Heating and Cooling Inc. - Providence, RI
A.T. Electric Contractors - Providence, RI
A1 Electrical Construction LLC - North Providence, RI
ABC Heating Services - Bristol, RI
Abernathy Lighting Design Inc. - North Providence, RI
ABM Enterprises Inc. - Exeter, RI
Aces Plumbing and Mechanical - North Providence, RI
Acme Electric Inc. - North Providence, RI
Acorn Maintenance - Warwick, RI
ACR Construction and Management Corporation - Pawtucket, RI
ADI Energy - Warwick, RI
ADM Contractors - Albion, RI
Advance Electrical Corporation - Providence, RI
Advanced Comfort Systems Inc. - North Smithfield, RI
Affordable Building and Weatherization Inc. - East Greenwich, RI
Affordable Heating and Air Conditioning Services - Providence, RI
Affordable Insulation Inc. - Providence, RI
AIA and Sons Construction - Warwick, RI
Air Conditioning Services Of New England Inc. - Cranston, RI
Air Metalworks Ltd - North Providence, RI
Air Synergy Cooling and Heating Systems Specialist - Providence, RI
Air Tech Heating and Air Conditioning - Rumford, RI
Air Temp - Riverside, RI
Aire Serv Heating and Air Conditioning - Pawtucket, RI
Airhart Electric Inc. - Coventry, RI
AJC Electrical Services LLC - Cranston, RI
AJ's Contractors - Providence, RI
AI Swajian and Son Plumbing and Heating - Cranston, RI
Alan Jerauld - North Providence, RI
Alan Paul Electric - Warwick, RI
Albert S Gizzarelli Plumbing and Heating Inc. - Greenville, RI
All In One Plumbing Heating and Cooling - West Warwick, RI
All Phase Heating Concepts - Woonsocket, RI
All Seasons Heating and Air Inc. - Johnston, RI
All Star Insulation - Providence, RI
Allan Menard Plumbing LLC - Pawtucket, RI
Allen Plumbing and Heating - North Providence, RI
Alliance Plumbing and Heating Inc. - Cumberland, RI
Almeida Plumbing and Heating and Air Inc. - Greenville, RI
Alpha Electrical Contractors Inc. - Riverside, RI
Alpha Mechanical - East Providence, RI
AI's Plumbing and Heating - West Warwick, RI
Alternative Heating and Cooling - Cranston, RI
AMC Construction Service - West Warwick, RI
American Development Institute Inc. - Warwick, RI
American Electric Service Inc. - Cranston, RI
American Home Heating and Air Conditioning Inc. - Providence, RI
Amity Electric - Wyoming, RI
AMJ Contracting - Cranston, RI
Anchor Insulation - Pawtucket, RI
Anchor Plumbing and Heating Company Inc. - Providence, RI
Andy's Overhead Electric - Kingston, RI
Angell Heating and Cooling - Peace Dale, RI
Anibal Ramos - Providence, RI
Anne The Plumber - Woonsocket, RI
F & S Electric Inc. - Bristol, RI
Feather HVAC - Cumberland, RI
Feula Plumbing and Heating LLC - Johnston, RI
FG Lees and Son Plumbing and Heating - Providence, RI
Filiozzi Plumbing and Heating - Peace Dale, RI
First Choice Plumbing - East Providence, RI
Five Star Plumbing and Heating - Johnston, RI
Fleet Plumbing and Heating Inc. - North Scituate, RI
Fletcher Heating Burner Repairs - Ashaway, RI
FLOU PHCC First Quality Installations - Saugus, MA
Francis Heating and Hydronics - East Providence, RI
Frances Heating - Johnston, RI
Frank Dimaio Heating LLC - Cranston, RI
Frank Lombardo and Sons Inc. - Providence, RI
Fred Manuppelli Plumbing and Heating - Johnston, RI
Fredrick Bailey P&H - Johnston, RI
Fressilli Plumbing Inc. - Providence, RI
Frontier Mechanical LLC - Providence, RI
Fullport Plumbing and Heating - Rumford, RI
G & L Electric Inc. - Woonsocket, RI
Gambit Electric Inc. - Johnston, RI
Garbiner Construction Inc. - Narragansett, RI
Gas Doctor - Providence, RI
Gas Master Inc. - Little Compton, RI
Gas Pro Inc. - Cumberland, RI
Gasman NC - Warwick, RI
Gasperts - Smithfield, RI
Gem Air Services Inc. - Pawtucket, RI
Gem Plumbing and Heating Services Inc. - Lincoln, RI
Glenn J Martinelli - West Greenwich, RI
Globex Industries Inc. - Narragansett, RI
GM Perron and Son Plumbing and Heating - North Smithfield, RI
Golden Installations - Smithfield, RI
Gordon Goncalves - Riverside, RI
Goulart Petroleum Inc. - Little Compton, RI
Granite City Electric Supply Inc. - Pawtucket, RI
Gravel Electric Inc. - Harrisville, RI
Greaseable Insulation - North Kingstown, RI
Greenville Insulation Company Inc. - Smithfield, RI
Greenwich Insulation - West Greenwich, RI
Greenwood Plumbing and Heating - Warwick, RI
Gregg Balnchette - North Smithfield, RI
Griff Electric LLC - Portsmouth, RI
Groom Energy Solutions - Providence, RI
Guardian Energy Management Solutions - Middletown, RI
Gunn Inc. - Westerly, RI
Guy Clermont Plumbing and Heating - Cranston, RI
H.K. Heating Inc. - Greene, RI
H.V. Holland Inc. - Jamestown, RI
Harris Plumbing and Heating Inc. - Narragansett, RI
Hawkes Plumbing and Heating Co Inc. - Chepachet, RI
HD Supply Facilities Maintenance - Warwick, RI
Heatech LLC - Warwick, RI
Heavenly Homes Plumbing and Heating - Cranston, RI
Heffernan Mechanical Services - Warwick, RI
Henderson Electric - Warwick, RI
Henry Oil - Providence, RI
HF Robinson and Sons Plumbing and Heating - Cranston, RI
HH Heating - Lincoln, RI
Hill Electrical Services - Cumberland, RI
Hodson Heating and Cooling - Harrisville, RI
Holiday Home Builders - Lincoln, RI
Holland Electric - Peace Dale, RI
Home Style Construction - North Providence, RI
Homestead Plumbing - Johnston, RI
Horizon Solutions LLC - Smithfield, RI
Houle Plumbing and Heating - Greene, RI
Howard Saucier - Pawtucket, RI
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Hutchins Electric - Greenwich, RI
HVAC Inc. - Cumberland, RI
Hynson Electrical Services Inc. - Bristol, RI
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Iasimone Plumbing-Heating & Drain Cleaning Inc. - North Providence, RI
ICSNE Inc. - Warwick, RI
Industrial Burner Service Inc. - Providence, RI
Interstate Electrical Services - Warwick, RI
IPS - Cranston, RI
Ironman Heating and Cooling - Riverside, RI
Island Carpentry Inc. - Newport, RI
IWIRE Electrical Services and Fire Alarm - Providence, RI
Izzo & Sons Electric - Providence, RI
J & A Electric - Providence, RI
J & J Electric - Warwick, RI
J & J Plumbing and Heating Inc. - Johnston, RI
J & M Plumbing LLC - Coventry, RI
J & R Contractors Inc. - Coventry, RI
J Argenti & Sons Electric LLC - Johnston, RI
J Dasilva Plumbing and Drain Cleaning - Pawtucket, RI
J Dunford Plumbing and Heating - West Greenwich, RI
J Joyce Plumbing and Heating Inc. - Warwick, RI
Jack Kenny - West Greenwich, RI
Jacobson Energy Research LLC - Providence, RI
James P Insana - Portsmouth, RI
Janton Electric Contractors - West Warwick, RI
JAS Plumbing - North Providence, RI
Jatwire Electric LLC - Tiverton, RI
JD Mechanical Inc. - Providence, RI
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Kwik Plumbing and Heating Inc. - Johnston, RI
L & B Remodeling - North Providence, RI
L & F Plumbing LLC - Cranston, RI
Laframboise Carpentry - East Providence, RI
Lain Electric Co - Providence, RI
Lambert DBM LLC - Middletown, RI
Lanagan Plumbing and Heating - Woonsocket, RI
Lance Plumbing and Heating - Scituate, RI
Landry and Martin Oil Co Inc. - Pawtucket, RI
Lang Plumbing and Heating - North Scituate, RI
Larry Giorgi Plumbing and Heating Inc. - North Providence, RI
Lauders Energy Solutions Inc. - Tiverton, RI
Lawrence Air Systems Inc. - Barrington, RI
Ledoux Electric - North Kingstown, RI
Lefevre Electric Inc. - Cranston, RI
Leidox Engineering - Newport, RI
Leonard Hines - Providence, RI
Leveille Electric - Smithfield, RI
Liberty Plumbing and Heating - Jamestown, RI
Lighthouse Contracting Services - Johnston, RI
Lighthouse Propane Inc. - East Greenwich, RI
Lincoln Energy Mechanical Services Inc. - West Warwick, RI
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Lubera Plumbing LLC - Coventry, RI
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M & G Correias Plumbing and Heating Supplies - East Providence, RI
M & M Electric - Richmond, RI
M & R Electric, LLC - Westerly, RI
M D'Andrea Electric LLC - Portsmouth, RI
M Delufo Plumbing and Heating Inc. - East Greenwich, RI
Mero Plumbing and Heating Inc. - Providence, RI
M.J. Bouchard Heating and Air Conditioning - Greenville, RI
Madden Electric - Little Compton, RI
Mador Electric - Providence, RI
Magnetic Electric Inc. - Warwick, RI
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Maloney Oil - Pawtucket, RI
Manfredo Electric - Warwick, RI
Manning Plumbing - Warwick, RI
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Marco Desrochers Electric - North Providence, RI
Marinelli & Sons Electric - West Kingston, RI
Marisa Desautel - Providence, RI
Martel Plumbing and Heating - Lincoln, RI
Massed Electric Company - Warren, RI
Mastro Electric Supply Co Inc. - Providence, RI
<table>
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<th>Company Name</th>
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<tbody>
<tr>
<td>Providence Electric Inc. - Pawtucket, RI</td>
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<td>Rhode Island HVAC - Cranston, RI</td>
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<td>Rhody Plumbing - Smithfield, RI</td>
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<th>Company Name</th>
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<td>Sylvester Sheet Metal Inc.</td>
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<td>SW &amp; Sons Plumbing &amp; Heating</td>
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<td>Symmes Maini &amp; Mcke Asso</td>
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<td>T &amp; J Heating Air Conditioning and Plumbing Inc.</td>
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<td>T &amp; T Plumbing and Heating Inc.</td>
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<td>T. Murphy Electric</td>
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<td>TF Electric, LLC</td>
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<td>The Farm Barlow Heating LLC</td>
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<td>TJ Billington &amp; Son</td>
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<td>Todd Wakeman</td>
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<td>Tom Peters Plumbing and Heating Inc.</td>
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<td>Tom Whitaker</td>
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<td>Total Control HVAC LLC</td>
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<td>Total Home Care</td>
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<td>Travers Plumbing and Heating Inc.</td>
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<td>Tri-Town Community Action</td>
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<td>United Burner Services Inc.</td>
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<td>V. Bevilacqua &amp; Son, Inc.</td>
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<td>Valcourt Heating Inc.</td>
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<td>Valley Heating and Cooling Inc.</td>
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<td>Valmer D Montoya Air Heating and Cooling Inc.</td>
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<td>Van's Electric Inc.</td>
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<td>Vaughn Oil Company Inc.</td>
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<td>Venancio Brothers Plumbing and Heating</td>
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<td>Vicmir &amp; Sons Heating and Air Conditioning Controls</td>
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<td>Viator Heating and Air Conditioning Company Inc.</td>
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<td>Victory Heating and Air Conditioning Company Inc.</td>
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Viking Electric Inc. - Providence, RI
Vincent Heating & Air Inc. - Cranston, RI
Vintage Plumbing - Riverside, RI
Vivona Plumbing and Heating Inc. - Portsmouth, RI
W.E. Hill Plumbing and Heating Inc. - Bristol, RI
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Wakefield Heating Service LLC - Wakefield, RI
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Walco Electric Company - Providence, RI
Waldo Plumbing and Heating LLC - Lincoln, RI
Walsh Electric - Bristol, RI
Warroom Document Solution - Providence, RI
Waterworks Plumbing and Services LLC - Johnston, RI
Wesco Oil & Propane Inc. - Esmond, RI
West Bay Community Action Partnership - Warwick, RI
West Bay Copy LLC - Kingston, RI
Wicked Watts LLC - Providence, RI
Wickford Appliance and Lighting Inc. - Pawtucket, RI
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William J Riley Plumbing and Heating - Warwick, RI
William Merritt Plumbing and Heating LLC - North Kingstown, RI
William S Ferrara - East Providence, RI
WJM Property Consulting Inc. - West Warwick, RI
Woods Heating Service - East Providence, RI
Wordell Heating and Cooling LLC - Little Compton, RI
Wyman & Sons Electric Company Inc. - Warwick, RI
Zanella Plumbing and Heating Inc. - Westerly, RI
Zap's Electrical - North Scituate, RI
Zawadzki Plumbing and Heating Inc. - Warwick, RI
Zompa Plumbing and Heating - Barrington, RI
Blackhawk Engagement Solutions (Parago) - Lewisville, TX
Compressed Air Challenge - Alexandria, VA
Opower Inc. - Arlington, VA
Kelliher Samets Volk - Burlington, VT
Vermont Energy Investment Corporation - Burlington, VT
Evoworx Inc. - Seattle, WA
New Buildings Institute Inc. - White Salmon, WA
Illume Advising LLC - Verona, WI