Rhode Island Energy Efficiency and Resource Management Council

2023 ANNUAL REPORT

JUNE 2023

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STATE OF RHODE ISLAND
ENERGY EFFICIENCY &
RESOURCE MANAGEMENT COUNCIL

Rhode Island Energy Efficiency and Resource Management Council
One Capitol Hill, Providence, RI 02908

rieermc.ri.gov

TABLE OF CONTENTS

EXECUTIVE SUMMARY..... 5

LETTER FROM THE CHAIR..... 6

LETTER FROM THE EXECUTIVE DIRECTOR..... 7

ABOUT THE EERMC..... 8

2022 ACHIEVEMENTS AND HIGHLIGHTS.....10

POLICY RECOMMENDATIONS.....14

EERMC PRIORITIES FOR THE 2024 ENERGY EFFICIENCY & SYSTEM RELIABILITY PROCUREMENT PLANS 16

2022 PROGRAMS AND INITIATIVES.....18

- Residential Energy Efficiency Programs.....18
- Income Eligible Services.....22
- Commercial & Industrial Programs..... 24
- Other Programs.....28
- Commercial, Industrial and Public Finance..... 31
- Pilots, Demonstrations, and Assessments.....32
- Cross-Sector Programs.....34

COUNCIL PUBLIC EDUCATION EFFORTS.....38

ENERGY JUSTICE & EQUITY EFFORTS.....40

PLANNING INITIATIVES..... 42

2023 ENERGY EFFICIENCY PROGRAM PLAN HIGHLIGHTS..... 45

APPENDIX A: 2022 EFFICIENCY PROGRAM CASE STUDIES.....48

APPENDIX B: 2022 ENERGY EFFICIENCY VENDORS..... 52

LIST OF FIGURES & TABLES

Figure 1. Cumulative Impact of Efficiency Investments on RI Electric Use……..……..12

Figure 2. Value of Energy Efficiency Program Benefits……13

Figure 3. Code Compliance Enhancement Initiative (CCEI) Training Attendees……...……35

Table 1. Summary of State Scores in the 2022 ACEEE State Energy Scorecard……...……..11

Table 2. Incentives by Town……..30

Table 3. 2022 Pilots, Demonstrations and Assessments…….…… 32

Table 4. 2023 Pilots, Demonstrations and Assessments……..47

RI EERMC 2023 Annual Report

EXECUTIVE SUMMARY

ENERGY EFFICIENCY IS PAYING OFF FOR RHODE ISLANDERS

In 2022, energy efficiency programs in Rhode Island created…

708 jobs

(full-time equivalent)

980 companies

delivered energy efficiency services in 2022

In 2022, energy efficiency programs resulted in…

$489 million

in total benefits to Rhode Islanders

Over their lifetime, energy efficiency measures installed in 2022 will prevent more than…

698,000 metric tons of greenhouse gas emissions

Equivalent to taking over...

155,000 cars

off the road for one year

POLICY RECOMMENDATIONS

1. Fully leverage energy efficiency to meet Act on Climate mandates
2. Support workforce development for clean energy and energy efficiency
3. Make Energy Efficiency Programs More Accessible and Equitable
4. Embed Equity in Energy Programs
5. Coordinate and Supplement Energy Efficiency Programming with Federal Funding
6. Identify and Maximize Opportunities for Weatherization and Addressing Pre-Weatherization Barriers
7. Align Programming with Federal Justice40 Equity Guidelines
8. Evaluate the State's Energy Future

The **Rhode Island Energy Efficiency & Resource Management Council (EERMC)** is a group of Governor-appointed stakeholders that work to ensure all Rhode Islanders receive the maximum benefits of energy efficiency. Learn more at www.rieermc.ri.gov.

LETTER FROM THE CHAIR

Harry Oakley
Chair, RI EERMC

To Governor Daniel McKee, Leaders and Members of the General Assembly, and all Rhode Island energy consumers:

The energy landscape around the world continues to change, forcing us all to adapt and find solutions to keep utility costs affordable. Energy efficiency programs, such as weatherization, can help all Rhode Islanders reduce both our energy consumption and our carbon footprint.

My name is Harry Oakley and I am the new chair of the Energy Efficiency and Resource Management Council (EEMRC). As Chair, I intend to elevate the effectiveness and accessibility of Rhode Island's energy efficiency programs, making it easy and convenient for all ratepayers to participate in these opportunities.

As a Rhode Islander, I have committed my career to learning how to navigate and enhance energy efficiency resources that benefit us all, with a focus on equity and energy justice.

In my role as the Director of Energy & Sustainability for Ocean State Job Lot, I also understand the challenges around Small Business and Commercial & Industrial programs, which can help drive major positive change across the state. In partnership with other stakeholders engaged in Rhode Island's energy efficiency programs, including Rhode Island Energy, the EERMC will foster new and more accessible pathways to help both residents and businesses in Rhode Island identify the programming available to them.

I also understand the foundational role energy efficiency needs to play for Rhode Island to meet our commitments under the Act on Climate. For our state to achieve these critical milestones, we need to ensure that all Rhode Islander's benefit from our efficiency programs. To that end, the EERMC has a clear mandate to ensure information on efficiency is widely available. Recently, we developed and published a series of educational videos on our website[1] in support of this responsibility.

I look forward to navigating the future of energy efficiency in Rhode Island and believe that if we all work together toward these goals, we will be able to achieve them.

In closing, I'd like to thank the EERMC members for their dedication and public service in helping pave the way for a better future for all Rhode Islanders.

Sincerely,

Harry Oakley

Harry Oakley
Chair, Rhode Island Energy Efficiency and Resource Management Council

[1] https://rieermc.ri.gov/energy-videos/

LETTER FROM THE EXECUTIVE DIRECTOR

Christopher Kearns
Executive Director, RI EERMC

To Governor Daniel McKee and Members of the General Assembly:

The Rhode Island Energy Efficiency and Resource Management Council (EERMC) and Office of Energy Resources (OER) are pleased to present the 2023 EERMC Annual Report.

The past year has been a year of transition. We are transitioning out of the global health emergency of the COVID-19 pandemic, we have seen the State's investor-owned utility transition to a new company, and our energy systems continue their transition as the foundation of our state's clean energy future and economy.

Throughout these transitions, Rhode Island has remained a leader in its energy efficiency policies and programs. According to the latest American Council for an Energy Efficient Economy (ACEEE) scorecard, Rhode Island ranks seventh in the nation for its ambitious policies that promote energy efficiency, create jobs, and help lower energy burdens for businesses and residents.

2022 was also the first full year of programming since the signing of the landmark 2021 Act on Climate, which established an economy-wide net-zero emissions target by 2050. In 2021 alone, energy efficiency programming prevented 717,257 metric tons of greenhouse gas emissions. Energy efficiency will continue to serve as a foundational element for achieving the State's decarbonization goals.

Energy efficiency is also a key driver of job creation in Rhode Island. At the end of 2021, clean energy employment totaled approximately 14,250 jobs – 60 percent of which were concentrated in the energy efficiency sector. This sector has experienced both the largest job losses during the start of the pandemic as well as the largest bounce-back in the following year, due to the in-person nature of the work. With ambitious policies in place at both the state and federal levels, including the 2021 Act on Climate, this field is poised for robust expansion over the coming years.

Equity and climate justice have been, and will continue to be, a key priority for the EERMC. Ensuring that efficiency programming is reaching all residents and businesses, especially income-eligible customers and those in disadvantaged communities, can provide much-needed relief on energy costs and improve the health and safety in Rhode Islander's homes and businesses and the EERMC will continue to push for innovative solutions to achieve these goals.

The OER and the EERMC looks forward to building on the progress to date and collaborating with partners to advance the State's energy, economic, and environmental goals.

Sincerely,

Christopher Kearns
Interim Commissioner, Rhode Island Office of Energy Resources
Executive Director, Rhode Island Energy Efficiency and Resource Management Council

ABOUT THE EERMC

COUNCIL MEMBERSHIP

The EERMC consists of fifteen members appointed by the Governor with the advice and consent of the Senate. Eleven 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, and energy users in the following sectors: large commercial and industrial, small commercial and industrial, large non-profit, 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

Voting Members

Harry Oakley, Chair
Representing Small Commercial and Industrial Users
Director of Energy, Sustainability, Procurement, & Corporate Facilities, Ocean State Job Lot

Peter Gill Case, Vice Chair
Representing Expertise in Energy Design and Code
Principal, Truth Box, Inc.

Sue AnderBois
Representing Expertise in Environmental Issues
Director of Climate & Government Relations, The Nature Conservancy

Dave Caldwell
Representing Energy Efficiency Education and Employment Tracking
Vice President, Caldwell & Johnson, Inc.

Joe Garlick
Representing Small Non-Profit Institutions
Executive Director, NeighborWorks Blackstone River Valley

Bob Izzo
Representing Large Commercial and Industrial Users
Director, Energy & Utility Management, CVS Health

Thomas Magliocchetti
Representing Large Non-Profit Users
Consultant, Joint Commission Resources, Inc.

Kurt Teichert
Representing Energy Regulation and Law
Senior Lecturer in Environmental Studies, Brown University

Non-Voting, Ex-Officio Members

Brett Feldman
Representing Utilities
Manager, Customer Energy Management, Rhode Island Energy

Kate Grant
Representing Utilities
Rhode Island Regulatory Affairs, Rhode Island Energy

Appointments Pending
Voting Member Low Income Users
Voting Member Representing Municipalities
Voting Member Representing Residential Users

Christopher Kearns
Executive Director, EERMC
Interim Commissioner, RI Office of Energy Resources

John Santoro
Representing Expertise in Delivered Fuels
CEO/Owner Santoro Family of Companies

COUNCIL PURPOSE

Maximizing Program Benefits for All Rhode Islanders

The Energy Efficiency and Resource Management Council (EERMC) has been providing an integrated, comprehensive, public, stakeholder-driven organizational structure to secure for Rhode Island's energy consumers the economic and environmental benefits of energy efficiency since the Council's formation in 2006 under amendments to R.I.G.L. § 42-140.1.

In representing small and large businesses, non-profit organizations, homeowners and renters, and municipalities and government, the EERMC oversees highly successful programs that allow Rhode Islanders to access energy efficiency instead of having to purchase more costly energy supply. A valuable outcome of these programs is to also support a growing industry of Rhode Island energy efficiency service and product suppliers, which support local job growth and in-state financial investments.

The effects of energy efficiency in the last decade now cumulatively account for approximately 20% of Rhode Island's electricity needs. The state's consistent investments in energy efficiency have resulted in Rhode Islanders paying half as much for its energy supply than they otherwise would have.

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 Rhode Island Energy's efficiency procurement plans and adds significant stability to investment decisions. The EERMC's model for structured stakeholder participation has been successfully deployed annually in a nationally-recognized process to set appropriate energy saving targets and then establish implementation plans that are equitable, cost-efficient and cost-effective to maximize benefits for all Rhode Islanders.

How Energy Efficiency is Funded

Energy efficiency is the most cost-effective way to reduce energy use and address climate change in Rhode Island. The funds that enable the implementation of the state's efficiency programs are collected from ratepayers via the System Benefits Charge (SBC) on electric and natural gas bills.[2] Thorough and careful evaluation, planning, and oversight ensure the funds support cost-effective energy efficiency that is less than the cost of supply, as required by the Least Cost Procurement law. Sustained and robust efficiency funding is important to ensuring Rhode Islanders continue to benefit from strong efficiency programs for years to come.

Energy Savings Targets

Every three years, the EERMC is required to develop targets for annual electric and natural gas reductions as a result of energy efficiency programs administered by Rhode Island Energy. The targets support the development of Rhode Island Energy's triennial and annual energy efficiency program plans by providing guidance on potentially available cost-effective efficiency resources in the state.

The EERMC works with its consultant team to conduct in-depth analysis, research, and stakeholder engagement to establish achievable, cost-effective levels of energy efficiency, which are then used to inform proposed energy savings targets. Once approved by the Council, the targets are submitted to the PUC for final review and approval. Once established, the targets are used to guide the development of the ensuing triennial and annual energy efficiency program plans.

[2] Delivered fuels customers do not pay into the Systems Benefit Charge.

2022 ACHIEVEMENTS & HIGHLIGHTS

ENERGY EFFICIENCY IS PAYING OFF FOR RHODE ISLANDERS

REDUCES EMISSIONS

Over their lifetime, efficiency measures installed in Rhode Island in 2022 will prevent more than…

698,000

metric tons of greenhouse gas emissions

Equivalent to taking over…

155,000 cars

...off the road for one year

LOWERS ENERGY COSTS

In 2022, energy efficiency programs resulted in…

$489 million

...in total benefits to Rhode Islanders

SUPPORTS THE ECONOMY

In 2022, energy efficiency programs in Rhode Island created…

708 jobs (full-time equivalent)

980 companies

...delivered energy efficiency services in 2022

2022 ENERGY EFFICIENCY PROGRAM RESULTS

Total Participants: 450,581

Cost Per Lifetime kWh of Electricity Saved: $0.11

Utility Program Cost: $112 million

Cost Per Lifetime therm of Natural Gas Saved: $0.86

Total Benefits: $489 million

Electric Savings as a Percent of 2022 Electric Load: 1.42%

NATION LEADING RESULTS

Rhode Island remains a nationally recognized leader in implementing high-quality energy efficiency programs. Since 2009, Rhode Island has consistently been among the top 10 states ranked by the American Council for an Energy Efficient Economy's (ACEEE) State Energy Scorecard. In 2022, Rhode Island ranked #7 overall, #1 in state-led initiatives, and #4 in utility programs.

The state received recognition for established strong policy structures, incentives, and standards to drive savings through utility programs, efficient new construction, and improved sustainability in the transportation sector. In particular, the Zero Energy for the Ocean State (ZEOS) program (see p37) and the Energy Efficiency Equity Working Group (see p40) were two initiatives that received special recognition.

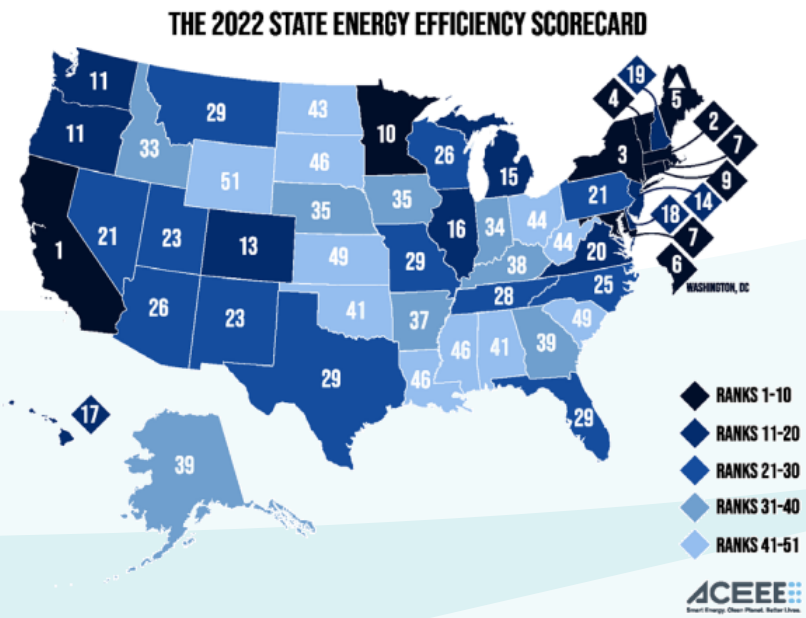


Table 1. Summary of State Scores in the 2022 ACEEE State Energy Scorecard.

Rank	State	Utility and public benefits (15 pts.)	Transportation policies (13 pts.)	Building energy efficiency policies (12 pts.)	State government initiatives (4.5 pts.)	Industrial policies (2.5 pts.)	Appliance efficiency standards (3 pts.)	Total score (50 pts.)	Change in rank from 2020
1	California	15	12	10	4.5	2.5	3	47	0
2	Massachusetts	14	11.5	10.5	4.5	2.5	1.5	44.5	0
3	New York	11.5	11.5	8.5	4.5	2.5	0.5	39	2
4	Vermont	11	9	9	4	1	2.5	36.5	-1
5	Maine	10	8.5	8.5	4.5	2.5	1.5	35.5	11
6	District of Columbia	8	11	8.5	3	2.5	2	35	2
7	Rhode Island	12.5	7.5	6	4.5	1.5	1	33	-3
7	Maryland	9.5	10	8	4	0.5	1	33	-1
9	Connecticut	9	10	7	4	2.5	0	32.5	-2
10	Minnesota	12	8	6.5	3	2.5	0	32	-1
11	Oregon	7	10	6	4.5	2	2	31.5	-2
11	Washington	6.5	9.5	7.5	3	2.5	2.5	31.5	0
13	Colorado	9	6.5	8	3	2	2	30.5	-2
14	New Jersey	9.5	7	6.5	3	1	1.5	28.5	3
15	Michigan	13	5	4	2.5	1.5	0	26	-2
16	Illinois	11	6	5	3	-0.5	0	24.5	-1
17	Hawaii	8.5	5	4.5	2	1.5	1.5	23	-3
18	Delaware	4.5	7.5	5	3	1.5	0	21.5	2

2022 ACHIEVEMENTS & HIGHLIGHTS

ENERGY EFFICIENCY AS A RESOURCE

In general, there are two options for meeting the energy needs of consumers, businesses, and institutions: producing energy supply or reducing energy demand. In other words, energy efficiency is capable of displacing energy supply. Because efficiency programs are generally significantly cheaper to implement than acquiring conventional supply (e.g. buying electricity), efficiency is widely considered to be not only a resource, but often the "first fuel" of choice. Efficiency programs can also defer expensive upgrades to utility infrastructure, improve system reliability, reduce peak demand, and increase energy security.

Cumulative Impact of Energy Efficiency on RI Electric Use

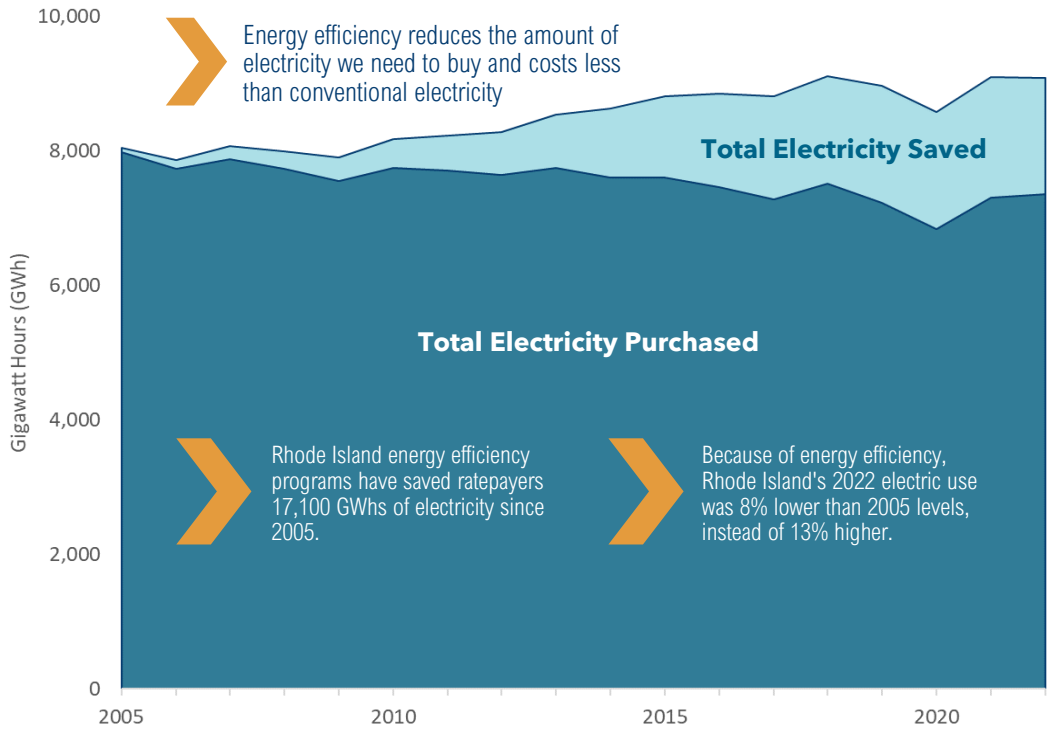


Figure 1. Cumulative Impact of Efficiency Investments on RI Electric Supply Requirements (2005-2022).

Since 2005, Rhode Island consumers in Rhode Island Energy's service territory have purchased over 128,000 GWhs of electricity. In that same period of time, ratepayer funded energy efficiency programs have saved Rhode Island consumers about 15,400 GWhs of electricity.

The impact of these savings means that instead of Rhode Island's electric load being 13% higher than it was in 2005, it is actually 8% lower. Additionally, because savings persist over the lifetime of the measures installed, the cumulative savings realized in 2022 account for over 19% of what the electric load would have been absent the energy efficiency programs.

THE VALUE OF ENERGY EFFICIENCY

Energy efficiency can directly lower energy bills for consumers who participate in programs, but it also has much broader benefits. Energy efficiency is one of the easiest and most cost-effective ways to reduce energy costs for all consumers, support the local economy, and combat climate change.

When we use less energy, we actually lower energy costs for everyone. By reducing the state's demand for power, for example, we reduce the impact of increasing energy prices, and those savings are passed on to all electric customers. Additionally, using less energy results in less strain on energy generation and distribution infrastructure, which lowers the costs of maintaining and expanding it – costs that the utility passes on to ratepayers. This effect also increases the energy system's reliability and security.

Value of Energy Efficiency Program Benefits Compared to Costs

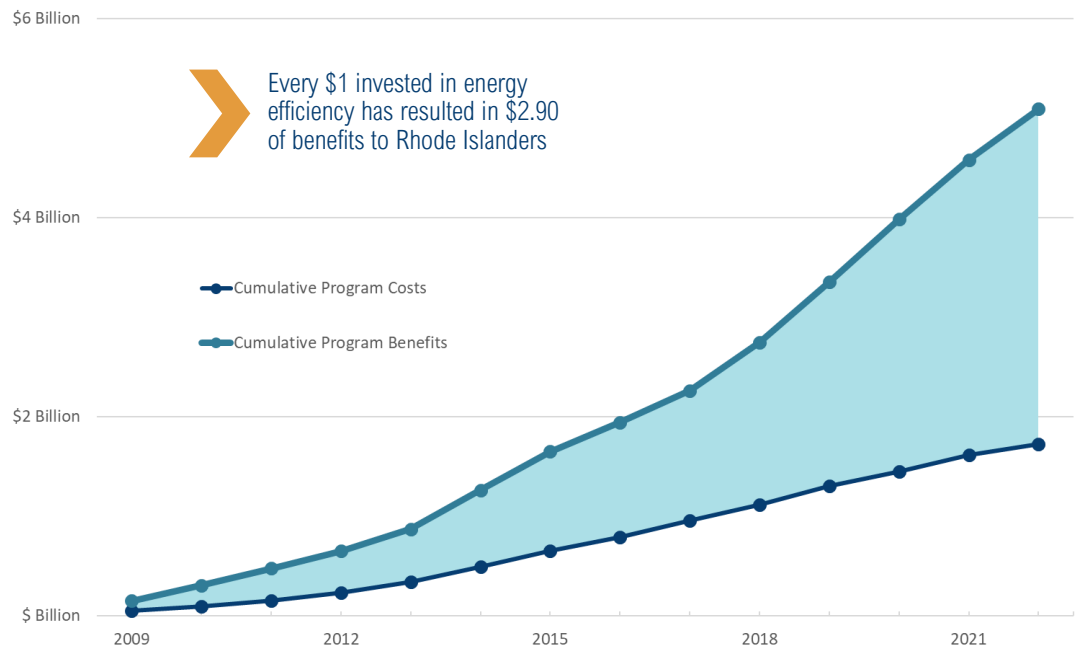


Figure 2. Cumulative Value of Energy Efficiency Program Benefits Compared to Program Costs Over Time.

Another important benefit is that, because energy efficiency programs are typically implemented by local workforces, it supports jobs and the economy. Just as importantly, efficiency is a critical tool for addressing climate change and the resulting economic, health, and environmental impacts.

Figure 2 illustrates how over time the cumulative benefits of energy efficiency programs far outweigh the costs of implementation. Since 2009, Rhode Island's ratepayer funded energy efficiency programs have provided over $5.2 billion in realized benefits. This compares to total program costs of about $1.8 billion, meaning that every $1 invested in energy efficiency has resulted in $2.90 of benefits to Rhode Islanders. Achievement of the energy savings goals set in the 2023 Energy Efficiency Program Plan will push the total realized benefits to over $5.5 billion.

POLICY RECOMMENDATIONS

R.I.G.L. § 42-140.1-5 requires that the EERMC "(s)ubmit 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 that will support energy and utility cost reductions for Ocean State residents and businesses; support industry and employment across the state's clean energy sector; and further Rhode Island's position as a national leader in energy efficiency and resource conservation.

1 FULLY LEVERAGE ENERGY EFFICIENCY TO MEET ACT ON CLIMATE MANDATES

Energy Efficiency is a key, foundational strategy to achieving the Act on Climate mandates and every effort must be made to coordinate the delivery and expand the programming of our energy efficiency portfolio. The EERMC should be integrated with Act on Climate initiatives to help achieve these Act on Climate mandates.

2 SUPPORT WORKFORCE DEVELOPMENT FOR CLEAN ENERGY AND ENERGY EFFICIENCY

A well-trained workforce to install robust energy efficiency measures and modernize heating and transportation equipment will be necessary to achieve the statewide decarbonization goals. Therefore, current efforts by the RI Department of Labor & Training, the Governor's Workforce Board, and others should be ramped up and focused on training for this work. Where possible, federal funding should be pursued in coordination with existing clean energy programs. Historically marginalized communities may offer unique opportunities to both train new workers in fields ripe for employment growth and also to better serve these marginalized communities moving forward. Supporting businesses in disadvantaged communities can create virtuous cycles as these businesses provide services to their neighbors and colleagues.

3 MAKE ENERGY EFFICIENCY PROGRAMS MORE ACCESSIBLE AND EQUITABLE

Rhode Island energy efficiency programs should constantly work to ensure that all customers and segments of the market have access to the benefits of energy efficiency savings.[3] There should be a concerted effort to reach those who are economically vulnerable and those who are currently above poverty guidelines but need significant assistance to make efficiency investments. Specifically, continued focus and resources should be placed on implementing strategies and providing new and different customer support mechanisms to realize increased participation in energy efficiency offerings from the Income Eligible and Multifamily sectors. Efficiency improvements in these sectors can have significant impacts on household living expenses and improve quality of life for Rhode Islanders. Increased engagement with the commercial and industrial sector will also help drive emissions and energy reductions in the state.

[3] Please see the Equity Working Group's Final Report for 2021 for additional information, available on the Council's website at: http://rieermc.ri.gov/wp-content/uploads/2021/09/11_2022-national-grid-2021-ewg-final-report.pdf .

4 EMBED EQUITY IN ENERGY PROGRAMS

Emphasizing and embedding equity considerations in the design and delivery of all state energy programs is critical to ensuring that all Rhode Islanders receive the maximum possible benefits. Barriers to equitable participation in energy programs must be examined and addressed as priorities. Such barriers, as well as recommendations, are identified in the RI Energy Efficiency Equity Working Group's 2021 Report and the RI Nonparticipant Market Barriers Study. Particular attention should be paid towards programs that serve under-represented and disenfranchised communities, such as the income-eligible and multifamily energy efficiency programs. Efforts to incorporate the voices and experiences of those most impacted by energy system inequities must continue to be supported and integrated into decision making in order to achieve equitable outcomes.

5 COORDINATE AND SUPPLEMENT EFFICIENCY PROGRAMMING WITH FEDERAL FUNDING

The passing of the historic Bipartisan Infrastructure Law and the Inflation Reduction Act has resulted in once-in-a-generation investment in energy efficiency, decarbonization, and workforce development. These funding opportunities should be maximized for Rhode Islanders to provide a significant boost to the clean energy economy and expand upon the existing programming in the state.

6 IDENTIFY AND MAXIMIZE OPPORTUNITIES FOR WEATHERIZATION AND ADDRESSING PRE-WEATHERIZATION BARRIERS

Weatherization, including improving insulation and air sealing, is an essential component for improving energy efficiency in Rhode Island. Weatherization reduces burden on the energy grid, improves the comfort of homes and buildings for occupants, and saves money for residents and building owners. Pre-weatherization barriers such as health and safety concerns, including asbestos, vermiculite, and knob-and-tube wiring, can all prevent weatherization projects from moving forward. These issues are particularly prominent in Rhode Island, which has one of the oldest housing stocks in the nation. Identifying funding and supporting a workforce to address these barriers will be essential for weatherizing homes and buildings in Rhode Island and to help decarbonize the building sector.

7 ALIGN PROGRAMMING WITH FEDERAL JUSTICE40 EQUITY GUIDELINES

President Biden's Executive Order 14008 set a goal that a minimum of 40% of the overall benefits of federal investments flow to disadvantaged communities overburdened by pollution. Aligning state energy programming with this goal can provide a framework for ensuring that disadvantaged and historically marginalized communities are able to access and benefit from state energy programs.

8 EVALUATE THE STATE'S ENERGY FUTURE

At the writing of this report, the Public Utilities Commission is hosting a conversation among key stakeholders to explore the future of the natural gas distribution system. The EERMC looks forward to reviewing the results of this analysis. The Executive Climate Change Coordinating Council is also developing plans for decarbonizing the statewide economy by 2050. These economy-wide analyses will be critical for guiding the future of the energy systems in Rhode Island. Evaluation and alignment of the delivered fuels sector will also be essential for achieving the mandates of the 2021 Act on Climate.

EERMC PRIORITIES FOR THE 2024 ENERGY EFFICIENCY AND SYSTEM RELIABILITY PROCUREMENT ANNUAL PLANS

As part of its fulfillment of the roles and responsibilities legislated in R.I.G.L. §42-140.1, the Energy Efficiency & Resource Management Council (EERMC or Council) provides the following input and direction in the form of Priorities to support development of the 2024-2026 Three-Year (2024-2026 Plan) and ensuing 2024 Annual Energy Efficiency Program Plans (2024 Plan) for submittal to the RI Public Utilities Commission (PUC) by October 15, 2023 by Rhode Island Energy. The EERMC also has clearly defined responsibilities in the PUC-issued Least Cost Procurement Standards (LCP Standards) to both support the development of the plans and to vote on whether to endorse the plans to the PUC. Should the EERMC vote not to endorse the plans, the EERMC is then directed to document reasons for that decision and submit them to the PUC for its consideration.

Comply with Least Cost Procurement Standards

- The 2024-2026 EE Plans will comply with the LCP Standards, including any updates to the LCP Standards as may be approved by the PUC, which lay out a clear structure and process for achieving the goals of least cost procurement and define the roles and responsibilities for the different program administration and oversight entities, including clear direction for strategy and planning of annual and three-year plans.
- Given the clear, outcome-oriented direction provided in the LCP Standards, the 2024-2026 EE Plans should clearly indicate how each Standard is applied.

Give Due Consideration to Act on Climate

- 2024-2026 EE Plan savings goals will be set consistently with the Act on Climate to ensure EE programs contribute an appropriate share of carbon emissions reductions.
- Rhode Island Energy will reduce investment in fossil fuel heating equipment and increase investment in weatherization.
- Rhode Island Energy will set specific goals for replacing electric resistance heating and hot water equipment with heat pump technologies.

Incorporate Stakeholder Input

- The Priorities indicated by the members of the EE TWG and Equity Working Group will be appropriately reflected throughout the 2024-2026 EE Plans, and that Rhode Island Energy's documentation and response to the proposed Priorities will be presented in a transparent and comprehensive format.
- Rhode Island Energy's proposed customer feedback activities will be sufficiently robust and capture actionable customer-driven input, and it will be appropriately reflected in the 2024-2026 EE Plans, and that Rhode Island Energy's documentation of the activities and their responses to customer input will be presented in a transparent and comprehensive format as a Plan Appendix.

Ensure an Effective and Efficient Development and Review Process

- The Key Deliverables and Schedule developed in collaboration by the EERMC Consultant Team, Rhode Island Energy, and OER, and discussed by the EERMC, will be followed by all relevant parties to assure necessary time is afforded to the EERMC and stakeholders reviewing and reaching a clear understanding of the content of the 2024-2026 EE Plans, sufficient to make informed decisions on whether to endorse the Plan.
- The 2024 Annual EE Plan should include key metrics that will be documented and reported to the EERMC and stakeholders at minimum as part of the standard Quarterly Program Performance Reports. Metrics will be identified through a collaborative process between the EERMC, RI Energy, and other stakeholders. Metrics identified through this process will be defined in the Plans and included in Quarterly Reports.

Set Ambitious Three-Year and Annual Plan Savings Goals

- Rhode Island Energy will set ambitious Three-Year and Annual Plan goals for 2024-2026 that meet EERMC-recommended targets or explain any gaps between the goals and targets, and signal to the industry the intent to grow energy efficiency programs and participation.

Increase Participation in Underserved Communities

Rhode Island Energy will…

- Work with relevant parties to discuss, vet, and if deemed appropriate, propose a performance incentive mechanism that includes a discrete equity component in the performance incentive mechanism, such as a service quality adjustment tied to equity goals.
- Implement recommendations of the Equity Working Group
- Identify clear and objective determinations of success, and regularly report progress in achieving EWG recommendations and other strategies to increase participation by historically underserved customers.
- Set ambitious savings goals for Income Eligible Single Family and Multifamily and EnergyWise Multifamily programs.
- Increase financial investments in serving historically underserved populations, including enhanced financial incentives to those customers across efficiency offerings
- Identify and implement program improvements that will facilitate ease of participation, including through streamlining of participation steps, documentation requirements, and income verification processes.
- Enhance marketing and outreach to underserved populations
- Develop and implement a targeting framework that focuses on all communities with high proportions of underserved and environmental justice populations and historical participation lower than average statewide participation levels.
- Enhance and increase municipal and other community-based partnerships, particularly to include partnerships with underserved communities.
- Conduct a Nonparticipant Study for small businesses and microbusinesses in 2024.
- Contract a qualified third-party vendor to develop a Language Access Plan (LAP) that sets forth how Rhode Island Energy will provide services to individuals who are non-English speaking or have limited English proficiency at each step of the customer journey
- Target workforce development efforts to serving contractors in underserved communities (detailed recommendations on workforce development covered in separate priority). RI Energy should actively coordinate with state entities to leverage available state/federal funds and workforce development offerings.

Conduct Targeted Workforce Development

Rhode Island Energy will…

- Implement recommendations of the Equity Working Group
- Deliver targeted workforce development for small/minority- and women-owned business enterprise (MWBE) contractors.
- Deliver workforce development focused on new and important technologies for meeting statewide climate goals, maximizing ratepayer benefits, and controlling ratepayer costs.
- Complete a Workforce Needs Assessment in time to incorporate results into the 2024-2026 Three-Year Plan.
- Increase investment in workforce development to expand training for existing workers, mitigate barriers to entry for new workers, and advertise training/job opportunities for workers.

SYSTEM RELIABILITY PROCUREMENT (SRP) PLAN PRIORITIES

- Rhode Island Energy will demonstrate continued responsiveness to Council and other stakeholder input, including during the development of the 2024-2026 SRP Three Year Plan.
- To support stakeholder engagement, Rhode Island Energy will ensure sufficient opportunities for stakeholder engagement and substantive contributions during SRP planning and implementation, including but not limited to SRP Technical Working Group meetings.
- To achieve continued methodological development, Rhode Island Energy will actively pursue further development of benefit cost analysis and assessment of internal energy efficiency and distributed energy resource solutions to grid needs.
- To complete Non-Pipes program design and other 2021-2023 Three-Year Plan commitments, Rhode Island Energy will ensure Non-Pipes Alternative (NPA) program design is complete within the planned timeline, and ensure that the results of this program design work, and any other learnings from the 2021-2023 Three-Year Plan, are appropriately incorporated and build upon in the 2024-2026 Three-Year Plan.

2022 RESIDENTIAL RESULTS

- 43,679 Annual MWh Saved (100.6% of Goal)
- 185,799 Lifetime MWh Saved (92.3% of Goal)
- 169,692 Annual MMBtu Saved (110.9% of Goal)
- 1,182,562 Lifetime MMBtu Saved (96.6% of Goal)
- 194,348 Metric Tons of Greenhouse Gas Emissions Avoided
- 438,997 Program Participants
- $23.1 Million in Lifetime Electric Bill Savings
- $7.2 Million in Lifetime Gas Bill Savings
- $133 Million in Total Benefits

2022 RESIDENTIAL PROGRAMS

Residential Energy Efficiency Programs

Rhode Island Energy offers comprehensive energy efficiency solutions for all Rhode Island residential customers. The goals of these offerings and services are to educate residents on saving energy and reducing energy bills while improving the comfort in their homes. The energy efficiency solutions concentrate on creating energy efficient homes through education and energy-efficient products; facilitating market transformation for efficient products and zero-energy homes and buildings; and educating Rhode Islanders on energy efficiency.

RI Energy continues its work to get the word out about the residential programs available to customers. In 2022 Rhode Island Energy attended a number of local events to promote efficiency, including:

- Rhode Island Navy Salute to Summer
- Back to School Celebration of Rhode Island
- East Providence Touch a Truck
- Latina 100.3 Latin Festival
- WaterFire Salute to Veterans

In the summer (June through September) of 2022, 15 thermostat events and 47 battery events were called. In 2022, 5,994 customers registered for the thermostat measure, 256 customers registered for the battery measure, and 738 customers registered for the solar inverter power quality demonstration.

The air source heat pump incentive for electric resistance heating customers remained effective and participation of exceeded the goals for the EnergyStar HVAC program. Additionally, enhanced incentives were offered to oil or propane heating sources with additional Regional Greenhouse Gas Initiative funding.

In its tenth year, the Rhode Island Home Energy Reports (HER) program continues to encourage energy efficiency behavior through personalized print and email reports, and a seamlessly integrated website. Each of the communication channels displays energy consumption patterns and contains a normative comparison to similarly

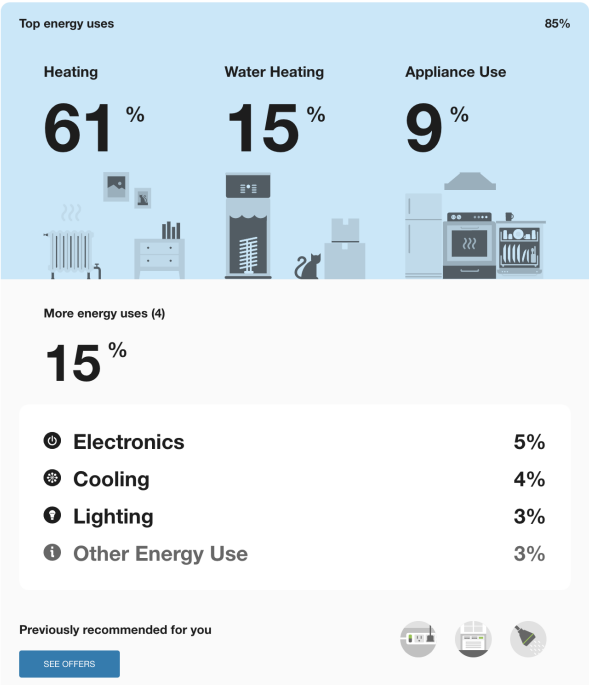
sized and similarly heated homes, as well as to an energy reduction goal for each customer. 260,322 Rhode Island customers received reports in 2022.

Rhode Island Energy continued its core residential energy efficiency programs in 2022:

EnergyWise Program

In 2022, the EnergyWise Single Family program achieved electric savings of 12,683 net lifetime MWh (94.1% of target) and gas savings of 526,451 net lifetime MMBtu (110.0% of target).

EnergyWise offers single family customers no-cost home energy assessments, weatherization, and information on their actual energy usage. Participants in this program receive personalized recommendations to reduce their energy consumption and improve the comfort in their home.



Online Home Energy Assessment Program

In addition, this program offers technical assistance, education, and financial incentives to replace and upgrade inefficient lighting, appliances, thermostats, heating and cooling systems, and insulation. In 2022, 8,563 in-person and virtual assessments were offered. EnergyWise works with single family customers of one-to-four-unit buildings in a two-pronged approach. During the initial visit (known as the home energy assessment) an energy specialist spends one-to-three hours providing educational materials and evaluating the customer's home. Instantly recognizable savings opportunities (such as pipe insulation) are installed during this first visit. At the completion of the assessment, the customer receives an Energy Action Plan that recommends additional energy savings opportunities and any accompanying incentives / financing options. Customers that proceed to the next phase of EnergyWise receive weatherization upgrades that provide savings for twenty years regardless of fuel type used. Overall, customers that install EnergyWise weatherization upgrades increase comfort while saving money on energy.

Residential New Construction Program

In 2022, the Residential New Construction program achieved 6,859 net lifetime MWh of electric savings (45.9% of target) and 96,022 net lifetime MMBtu of gas savings (148.0% of target).

The Residential New Construction Program (RNC) benefits new construction and major renovation of single-family and multi-family homes for market rate and income eligible customers. The program elements include plan review, energy modeling, in-field technical assistance, insulation and air sealing inspection, third-party blower-door and duct-blaster testing (building performance testing), a HERS (Home Energy Rating System) Index rating and certification, energy performance-based incentives, complimentary ENERGY STAR® bulbs and WaterSense® showerheads, and optional support for projects seeking additional certifications such as ENERGY STAR® Homes, DOE Zero Energy Ready, Passive House/PHIUS, LEED-H and Living Building Challenge. In 2022, 431 housing units were built to program standards.

- 196 units were new construction / full gut rehab (45%)
- 235 units were renovation / rehab (55%)
- 169 units were market rate (39%)
- 262 units were income eligible (61%)
- 282 units are gas-heated (65%)
- 61 units are electric-heated (heat pumps) (14%)
- 55 units feature hybrid electric and propane heat pumps (13%)

- 3,842 LEDs were installed throughout all units
- 10 units are EnergyStar certified
- 4 units are DOE Zero Energy Ready
- 6 units are Passive House

In May 2022, ONE Neighborhood Builders, the developer of Sheridan Small Homes, RI's first DOE Zero Energy Ready certified affordable housing neighborhood, invited Jon Erickson from the RNC Program to speak at a panel. The panel, which addressed Zero Energy Affordable Housing, was the first in a series of virtual gatherings for community development practitioners to learn about and share emerging topics and ideas. Jon, the certified DOE ZER verifier for the project, spoke about some of the interesting and unusual aspects of the project, as well as some of the challenges.

Recording of the panel presentation can be found here: https://oneneighborhoodbuilders.org/first-fresh-fridays-session-focuses-on-sheridan-small-homes/

ENERGY STAR® Consumer Products Program

In 2022, the Residential Consumer Products program achieved 17,559 net lifetime MWh of electric savings (36.9% of target).

The ENERGY STAR® Consumer Products Program promotes the purchase of high efficiency household appliances and electronics. In 2022, Rhode Island Energy made significant progress on supporting pool pump upgrades to the EnergyStar 3.0 specification. In total, customers received incentives on 364 variable speed drives. Rhode Island Energy finished 2022 with over 1,000 dehumidifiers recycled (far exceeding 2021 results). The continued success of this dehumidifier recycling campaign has further enhanced Rhode Island Energy's reputation as a strong community partner. In 2022, Rhode Island Energy launched two new initiatives under Residential Consumer Products:

- **Most Efficient Appliance Initiative:** Rhode Island Energy partnered with Home Depot to offer EnergyStar Most Efficient refrigerators and clothes washers. Across 8 Rhode Island Home Depot locations, 143 Most Efficient refrigerators and 11 Most Efficient clothes washers were sold to Rhode Island Energy customers.
- **Advanced Power Strips Initiative:** Rhode Island Energy signed an agreement with Ocean State Job Lot to provide incentivized advanced power strips. Across 18 Ocean State Job Lot stores, approximately 4,200 strips were sold to Rhode Island Energy customers.

ENERGY STAR® HVAC Program

In 2022, the EnergyStar HVAC program achieved 114,444 net lifetime MWh of electric savings (147.3% of target) and 391,435 net lifetime MMBtu of gas savings (89.0% of target).

The ENERGY STAR® Gas and Electric Heating, Cooling and Water Heating Program promotes the installation of high-efficiency equipment for gas and electric space heating and cooling, water heating, and controls via tiered customer rebates. The program provides contractor training and incentives to ensure best practices for the proper design of distribution system improvements, equipment sizing and quality installation.

Rhode Island Energy has continued the HVAC program's weekly newsletter. Featured topics include rebate submission reminders/deadlines, promotion of upcoming trainings, SEER2 requirement updates, and HEAT Loans. There are over 650 recipients currently on the newsletter's distribution list. In 2022, Rhode Island Energy was invited by Lawrence Air Systems (an HVAC contractor) to teach a class for students at MTTI (a technical career training school). In 2022, the lead program vendor attended a meeting sponsored by Mitsubishi. The vendor provided information on rebate applications, training opportunities, installation best practices, and more. This meeting allowed the vendor to connect further with industry colleagues.

Home Energy Reports Program

In 2022, The Home Energy Reports program achieved 30,814 net lifetime MWh of electric savings (114.8% of target) and 115,975 net lifetime MMBtu of gas savings (124.0% of target).

The Home Energy Reports (HER) Program encourages energy efficient actions through personalized print and email reports. Each communication channel displays energy consumption patterns, energy reduction goals, and comparisons to similarly sized and heated homes. In 2022, Home Energy Reports provided energy efficiency messaging on the following topics: heat pump water heaters, cold climate heat pump technology, room air conditioners, refrigerator recycling, gas heating equipment, and Rhode Island Energy's online marketplace (e.g., Black Friday pricing on smart thermostats).

Multifamily Program

In 2022, the EnergyWise Multifamily program achieved 3,442 net lifetime MWh of electric savings (16.6% of target) and 52,697 net lifetime MMBtu of gas savings (35.8% of target).

The Multifamily Program provides comprehensive energy efficiency solutions to market rate and income eligible gas and electric multifamily (properties with five or more units) customers. Two examples of projects completed in 2022:

- **Boiler Replacement in Providence:** Two domestic hot water boilers were replaced with two Lochinvar high efficiency condensing domestic hot water boilers. The installation included two 800,000 BTUh Armor water heaters at 99% efficiency and two high efficiency boiler pumps with speed controls. The gas incentive for this project was $134,983 with an estimated net lifetime savings of 110,000 therms ($1.23/therm). The electric incentive was $22,600 with an estimated net lifetime savings of 108,000 kWh ($0.21/kWh).
- **Boiler Replacement in Riverside**: Three 300 MBH heat boilers were replaced with two 600 MBH high efficiency condensing boilers. The existing DHW and heating circulator pumps were also replaced with new high efficiency circulator pumps. Also included was a complete relamp and reballast of common area strip fixtures. The gas incentive for this project was $234,605 with an estimated net lifetime savings of 367,000 therms ($0.64/therm). The electric incentive was $23,512 with an estimated net lifetime savings of 282,000 kWh ($0.08/kWh).

2022 INCOME ELIGBLE RESULTS

- 3,807 Annual MWh Saved (78.5% of goal)
- 45,279 Lifetime MWh Saved (72.1% of goal)
- 16,006 Annual MMBtu Saved (62.4% of goal)
- 365,334 Lifetime MMBtu Saved (74.3% of goal)
- 51,451 Metric Tons of Greenhouse Gas Emissions Avoided
- 8,066 Program Participants
- $5.6 Million in Lifetime Electric Bill Savings
- $2.1 Million in Lifetime Gas Bill Savings
- $56.2 Million in Total Benefits

2022 INCOME ELIGIBLE PROGRAMS

Income Eligible Services Program

In 2022, the Income Eligible Services Program achieved 27,991 net lifetime MWh of electric savings (72.7% of target) and 129,628 net lifetime MMBtu of gas savings (59.2% of target).

The Income Eligible Services (IES) program offers no-cost energy assessments and energy efficiency upgrades to residential income eligible customers without any financial contribution from the customer. Income Eligible Services are delivered by Rhode Island's six local Community Action Program (CAP) agencies to customers who meet one of the following criteria:

- Currently on the electric A-60 or the gas 11/13 rates; or
- Qualify for LIHEAP funds from the State; or
- Household income level falls below 60% of the Area Median Income (AMI)

Income eligible customers are eligible for a full energy assessment of their home including lighting, appliances, weatherization (insulation and air sealing), and if deemed necessary, may receive replacement of inefficient or unsafe heating systems and/or appliances. All IES customers receive all services and equipment upgrades at no cost. In 2022, the IES program conducted 3,685 energy assessments, as compared to 3,349 in 2021.

CLEAResult (the IES Lead Vendor) has improved communication across the Income Eligible Single Family program with assistance from the local appliance vendor (the South Middlesex Opportunity Council) and other local agencies. As an example of the recognition this improved communication has received, the Interstate Renewable Energy Council published an article describing the cooperative development of the Residential Construction Weatherization Program.

CLEAResult also participated in the Policy Advisory Committee (PAC) meeting to develop the Bipartisan Infrastructure Law state plan application.

On another front, the WiFi Smart Thermostat program is moving from theoretical to applied. Virtual and in-person equipment selection trainings have been completed. The next phase of training will focus on equipment installation.

Collaborative Efforts

Rhode Island Energy's Income Eligible Services are administered along with related and complementary federal, state, and local programs in collaboration with Rhode Island Department of Human Services (DHS), the Community Action Program (CAP) agencies, and other local agencies. This collaboration leverages funds that provide energy services to income eligible customers in Rhode Island. The programs discussed below allow more customers to receive comprehensive energy assessments.

An IES Best Practice meeting was held at Westbay CAP, and was available with hybrid web participation, on September 29, 2022. This meeting focused on residential fire safety, the best practice process using the WiFi Smart thermostat installations as an example, educated all parties on the Moderate Income Offering for customers that make too much to qualify for LIHEAP, year-to-date program delivery performance, and appliance delivery update.

The Interstate Renewable Energy Council (IREC) published an article describing the Rhode Island Builder Association, Rhode Island Energy, CLEAResult, and CAP agency cooperation in developing and implementing the Residential Construction Weatherization Program (RCWP). Specifically, the article focused on the use of the IREC Green Buildings Career map. The goal of the RWCP is to provide equity-based training & certification to local unemployed or underemployed people, providing skills to participate in all facets of the green energy economy.

The article can be found at: https://irecusa.org/blog/workforce-development-training/how-career-maps-can-support-energy-efficiency-job-training-outcomes/

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 outreach, intake and income-verification are provided by the six local CAP agencies. Households are determined eligible for LIHEAP assistance according to income guidelines established by DHS.

Weatherization Assistance Program

The Weatherization Assistance Program (WAP) provides funds for income eligible families to insulate and air seal their homes to reduce their energy bills, improve potential health and safety concerns and improve thermal comfort. 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. Rhode Island Energy weatherized 758 units of income eligible housing in 2022.

2022 C&I RESULTS

- 57,550 Annual MWh Saved (90.3% of goal)
- 481,911 Lifetime MWh Saved (84.6% of goal)
- 197,863 Annual MMBtu Saved (93.9% of goal)
- 2,094,388 Lifetime MMBtu Saved (89.3% of goal)
- 452,525 Metric Tons of Greenhouse Gas Emissions Avoided
- 3,518 Program Participants
- $66.5 Million in Lifetime Electric Bill Savings
- $14.8 Million in Lifetime Gas Bill Savings
- $299.8 Million in Total Benefits

2022 COMMERCIAL & INDUSTRIAL PROGRAMS

Large Commercial & Industrial Programs

Rhode Island Energy offers five Commercial and Industrial (C&I) energy efficiency programs. Depending on a customer's energy consumption and demand, they could be eligible to participate in one or more of the following programs.

1) **Large C&I New Construction**
   Targets ground-up new construction, major renovations, tenant fit-outs, and end-of-life replacement equipment.
2) **Large C&I Retrofit**
   Focuses on all services and technologies related to retrofits needed for existing buildings.
3) **Active Demand Response Program**
   Aims to reduce peak electric demand and associated costs for large and small commercial customers.
4) **Small Business/ Direct Install**
   Offers turn-key energy saving solutions to many types of small businesses.
5) **C&I Multifamily Program**
   Provides joint residential and commercial energy services to condominiums and apartment complexes for energy efficiency upgrades.

The C&I sector encompasses a diverse and complex set of customers. Each large C&I customer is assigned a dedicated account representative who helps connect customers with energy efficiency resources, vendors, and incentives. To better serve customers in several market segments, Rhode Island Energy leverages a market sector approach. This approach allows Rhode Island Energy to provide customized energy efficiency solutions that align with the customers' needs, thereby increasing program participation. Customers in market segments not targeted through industry -specific initiatives are still served by dedicated account representatives (e.g. hospitals, colleges and universities, commercial real estate, retail, etc.).

Large C&I New Construction Program

In 2022, the Large C&I New Construction program achieved 101,622 net lifetime MWh of electric savings (52.8% of target) and 581,376 net lifetime MMBtu of gas savings (73.7% of target).

The Commercial New Construction Program encourages energy efficiency in new buildings and major renovations as well as new equipment installed to replace aging or failed equipment, through financial incentives and technical assistance to customers, developers, manufacturers, contractors, and design professionals.

There were 40 active projects in the program as of the end of 2022. Examples within the program include:

- Rhode Island Energy is working with a university on the construction of a new arena and dining hall
- Rhode Island Energy is working with the State of Rhode Island on a study of a state laboratory facility and a plan for a new 60,000 square foot state police barracks.
- Rhode Island Energy is engaging four new schools about targeting the Path 1 Zero Net Energy program.
- Rhode Island Energy is reviewing a new stadium complex in Pawtucket

Large C&I Retrofit Program

In 2022, the Large C&I Retrofit program achieved 322,519 net lifetime MWh of electric savings (103.1% of target) and 1,374,881 net lifetime MMBtu of gas savings (103.2% of target).

The Large Commercial Retrofit Program incentivizes the replacement of existing equipment and systems with energy-efficient alternatives, as well as enhancements that reduce energy consumption such as advanced controls and variable-frequency drives, when the customer might otherwise not plan on making efficiency investments. The program offers three distinct pathways that aim to address specific market barriers:

- **Prescriptive Pathway:** Prescriptive incentives supported trade allies in advancing energy efficiency sales and provide signals to customers to make direct purchases that encouraged the adoption of more efficient and cost-effective options.
- **Custom Pathway:** Custom incentives provided services to investigate opportunities to increase efficiency and support the steps needed to implement the upgrades.
- **Upstream Pathway:** Upstream incentives provided an efficient way for customers to receive reduced pricing at the point of sale for energy efficiency equipment.

Building Analytics Program

In Q4, Rhode Island Energy officially kicked off the new Building Analytics Program (BAP) with its implementation vendor and several service providers. This initiative will provide funding for implementation of software platforms and associated services to identify opportunities to improve the performance and longevity of HVAC and other equipment managed using building automation systems.

BAP is part of the Equipment and Systems Performance Optimization (ESPO) initiative and builds on the prior monitoring-based commissioning (MBCx) offering. Like MBCx, the new BAP offering will provide incentives for savings achieved using analytics platforms; however, the new offering also mitigates customer risk and workload by offering incentives for:

- Upfront installation (not just savings)
- Enhanced technical assistance
- Streamlined reporting requirements
- A list of Qualified Service Providers vetted by Rhode Island Energy's implementation vendor

Industrial Initiative

The Industrial Initiative targets manufacturers and other industrial customers. These customers often use specialized equipment for industrial processes and consume large amounts of energy. The initiative is implemented by a world -renowned engineering firm with expertise in this sector. The firm partners with Rhode Island Energy to implement energy efficiency opportunities for industrial customers across Rhode Island.

As an example of an Industrial initiative project, a customer replaced an old nitrogen (N2) generator that was used to heat-treat ovens with a newer, more efficient nitrogen generator system. The upgraded N2 system requires 895 cubic feet per minute (CFM) of compressed air load, with a new 2,400 CFM cycling dryer providing additional compressed air capacity. The upgraded system accounted for over 279,000 kWh of savings, with demand reduction of 33.2 kW in 2023 Program Year.

EnergySmart Grocer Initiative

The EnergySmart Grocer (ESG) initiative delivered cost effective, comprehensive energy savings in the grocery market segment.

Below are five examples of completed projects under the EnergySmart Grocer Initiative

- A grocery chain replaced gaskets on medium and low temperature refrigerator cases at six Rhode Island locations. This project will result in annual savings of 36,000 kWh and 2,000 therms. The grocery chain also received $21,672 in rebates.
- A grocery chain added a variable speed drive on the motors of a rooftop condenser at a Providence store location. This project will reduce electricity consumption by 29,000 kWh.
- A convenience store chain performed coil cleaning on rooftop condensers and HVAC units at 12 Rhode Island Locations. This project will result in annual savings of approximately 10,000 kWh with very little cost to the stores.
- A grocery chain installed anti-sweat heating controls at seven Rhode Island locations. This project will result in annual savings of nearly 1,000,000 kWh.
- A grocery chain added glass doors to refrigerated food display cases wherever possible at four Rhode Island locations. This project will result in annual savings of 257,000 kWh and 23,000 therms. The grocery chain also received in $123,423 in rebates.

Work with Public Schools

Rhode Island Energy has partnered the Rhode Island Office of Energy Resources (OER) and Rhode Island Department of Education (DOE) to provide technical, procurement, implementation, and financial resources for public schools seeking to implement more energy-efficient equipment and practices at their facilities. In addition to the standard energy efficiency pathways, OER and DOE have partnered with Rhode Island Energy on two initiatives:

School Lighting Accelerator Program: Part of the state's Lead by Example initiative, this program helps schools to upgrade to LED lighting with controls

Energy Improvements for Rhode Island Schools: This program was funded by the U.S. Department of Energy in response to COVID-19 concerns. The program helps schools upgrade their HVAC systems and building controls to improve indoor air quality while reducing energy consumption.

Rhode Island Energy's work with public schools is focused on ten priority communities: Central Falls, Providence, Pawtucket, Woonsocket, West Warwick, East Providence, North Providence, Cranston, Coventry, and Burrillville. To date, $20 million has been allocated to these efforts.

Active Demand Response Program

Commercial ConnectedSolutions, Rhode Island Energy's active demand response program, officially launched in 2019, after running as a demonstration project in 2017 and 2018. In exchange for financial incentives, customers who opt into the program agree to reduce their electric use at times when the electric grid is experiencing the highest levels of demand. By reducing electric use during peak demand periods, customers help reduce emissions, infrastructure costs, and utility prices.

There are two options for commercial and industrial customers. Targeted dispatches reduce the customer's energy usage for a few hours during 2-8 periods of high energy demand each summer. Daily dispatches reduce the customer's energy usage for a few hours during about 50 periods of high energy demand each summer. Where did this language come from? It sounds fine, but just want to make sure it aligns with the Company's offering and not a general description we pulled from somewhere else.

In the summer of 2022 (June-September) there were six targeted and 48 daily demand response events. There were 19 MW and 13 MW of gross capacity commitments (i.e. the capacity to reduce electric demand on the grid) in targeted and daily dispatch respectively.

Small Business Direct Install Program

In 2022, the Small Business Direct Install program achieved 57,769 net lifetime MWh of electric savings (89.7% of target) and 78,956 net lifetime MMBtu of gas savings (86.1% of target).

Rhode Island Energy's Small Business Direct Install program is a retrofit program that provides turnkey services to customers that consume less than 1,000,000 kWh per year. As part of the program, customers receive a free on - site energy assessment and a customized report detailing recommended energy efficient improvements. Rhode Island Energy then completes retrofit installations at the customer's convenience.

Rhode Island Energy typically pays up to 70% of installation and equipment costs and customers can finance the remaining share of the project over as many as 60 months (typically 24) on their electric bill, interest free, using the Small Business Revolving Loan Fund, provided funds are available.

There were 82 weatherization projects in 2022 leveraging RGGI funds provided by OER to supplement the system benefits charge (SBC) funds to enhance customer economics for these projects. Thanks to this partnership with OER, over eighty small business received incentives up to 100% for air sealing, insulation, and ventilation in 2022. These measures will help reduce emissions and improve building comfort during cold winter and hot summer months.

Rhode Island Energy would like to highlight several projects that were completed in 2022 for small business customers.

Brewery Project: A local microbrewery installed energy-efficient refrigeration thermostat controls on its coolers. This installation enables the coolers to optimize scheduling / setpoints and ensures the evaporator fans cycle as needed rather than running continuously. This project will result in annual savings of 17,000 kWh.

Progreso Latino: In collaboration with Progreso Latino, the program vendor met with local business owners to share information on the Small Business Direct Install program. Follow-ups led to multiple completed jobs. Marketing collateral was created along with dedicated web pages in English and Spanish to remove barriers and ensure comprehension.

Office Building in Providence: An office building that hosts several small businesses installed LED fixtures with integrated controls along with exterior lighting upgrades. This project cost $109,520 and will result in annual savings of 155,000 kWh.

Pawtucket Businesses Development Corporation: The SBDI vendor worked with the Pawtucket Businesses Development Corporation (PBDC) on a new initiative targeted to low/moderate income building owners whose property is "public facing" or is located in designated low/moderate income census tracts. The program provides grants to supplement RI Energy SBDI assistance for HVAC-related projects that will result in indoor air quality improvements. An SBDI assessment is the first step in qualifying. Projects up to $50,000 can be funded in full, with the PBDC picking up the customer's share of the project cost after the RI Energy incentive is applied. The PBDC has roughly $300,000 available, and the SBDI vendor began accepting applications in Q3. This is an excellent opportunity to fund comprehensive mechanical improvement for targeted owners and to utilize the RGGI Weatherization initiative to ensure that the building envelope is properly weatherized at the same time.

OTHER PROGRAMS IN 2022

Lead by Example: State and Municipal Entities

In December 2015, Governor Gina Raimondo issued an Executive Order directing State agencies to 'Lead by Example' by achieving robust clean energy targets and developing clean energy practices. The Lead by Example initiative is also promoting interdepartmental cooperation, unlocking opportunities to invest in comprehensive energy efficiency and renewable measures that can reduce and stabilize public sector energy costs, shrink the government's carbon footprint, and support Rhode Island's burgeoning clean energy economy.

The programs and initiatives spurred by the Lead by Example executive order are also available for municipalities and quasi-public agencies. Specifically, public entities can receive technical assistance, and in some cases financial support, from Rhode Island's Office of Energy Resources to improve the energy efficiency of their buildings, install renewable energy systems and electric vehicle charging infrastructure, and purchase all-electric or hybrid fleet vehicles. Lead by Example efforts are meant to serve as a model for businesses, organizations, and citizens as we all work together to move Rhode Island toward a more secure, cost-effective, and sustainable energy future.

In 2022, the School LED Lighting Accelerator through the Office of Energy Resources was expanded from a two-community pilot into a program supporting 10 school districts with a budget of $10 million dollars. Through the end of 2022, 7 schools had completed lighting upgrades, with an additional 17 in the implementation phase. The School LED Lighting Accelerator program provides technical, procurement, and financial support to qualified school districts for LED lighting upgrades. It will also leverage utility-administered energy efficiency funding and municipal funding streams/on-bill repayment.

RI Agricultural Energy Program

Recognizing the vital role that farmers play in Rhode Island's economic and environmental framework, OER, in consultation with the Department of Environmental Management (DEM) aims to improve the accessibility of resources for farmers that will offset agricultural electric load through cost-saving energy efficiency measures and on-site renewable energy projects. Historically, farmers make use of older and traditional infrastructure, and often rely heavily on delivered fuels. These challenges have traditionally made agribusiness a hard-to-reach sector for standard energy efficiency and renewable energy programs.

The RI Agricultural Energy Program offers Rhode Island agribusinesses incentives for prescriptive energy efficiency measures. Program participants 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. Electric efficiency incentives vary depending on the application, but any approved electric measure cost not covered by an incentive can be paid back, interest free, through Rhode Island Energy's on-bill payment system, provided that funds are available.

The RI Agricultural Energy Program (RI AgEP) offers financial incentives to farms in Rhode Island of up to $20,000 for energy efficiency and renewable energy projects. The program has continuously held two funding rounds each year, in spring and fall. This program has helped fund 55 total projects since 2016. The spring 2022 funding round awarded six farms for solar projects, with one farm undertaking a solar & battery storage project.

OER continues to streamline the ability for farmers to leverage the RI Agricultural Energy program with other farm-related programs and grants. By establishing and maintaining open lines of communication with the Department of Environmental Management, Commerce RI, Rhode Island Energy and USDA Rural Development, OER does not limit its outreach work to the RI AgEP, but also promotes all financial incentives available to farmers at the federal and state level. With help from a University of Rhode Island Energy Fellow, additional outreach is conducted virtually and in -person through attendance at farmers markets, online webinars, email, and one-on-one phone calls. Outreach materials and the RIAgEP page on the OER website were also updated to be easier for farmers and agribusiness owners to navigate. The Farm Energy Fellow also helps to create video profiles that are posted to the OER website to spread awareness about program benefits and success stories. The 2022 video is currently is still in production and will be released in 2023. Presentations were also given at several workshops and further outreach was conducted through the program's growing social media presence: Facebook and Instagram (@RIFarmEnergyResources).

INCENTIVES BY TOWN

Table 2. Gas and Electric Energy Efficiency Incentives Provided to Residential, Commercial and Industrial Customers in 2022.

CITY / TOWN	2022	2021	2020	CITY / TOWN	2022	2021	2020
Barrington	$ 1,292,799	$1,466,386	$1,397,624	New Shoreham	$6,124	$16,957	$5,683
Bristol	$1,487,059	$1,392,368	$1,841,043	Newport	$1,997,660	$1,694,671	$5,048,264
Burrillville	$523,315	$816,559	$434,584	North Kingstown	$3,731,966	$5,392,545	$4,724,340
Central Falls	$668,544	$688,528	$485,880	North Providence	$1,062,251	$1,229,493	$1,350,793
Charlestown	$595,883	$598,561	$558,370	North Smithfield	$793,929	$1,063,672	$1,292,115
Coventry	$2,295,182	$2,109,036	$2,276,976	Pawtucket	$5,069,369	$5,971,279	$4,142,352
Cranston	$5,531,820	$7,562,266	$7,798,302	Portsmouth	$1,157,937	$1,151,848	$1,530,578
Cumberland	$1,924,349	$3,078,212	$2,493,738	Providence	$18,034,800	$20,537,815	$26,806,775
East Greenwich	$1,640,784	$1,901,598	$1,486,839	Richmond	$243,294	$521,109	$472,342
East Providence	$3,875,796	$6,093,821	$4,211,258	Scituate	$903,119	$1,282,980	$1,143,611
Exeter	$335,767	$327,727	$556,004	Smithfield	$1,429,662	$2,458,367	$2,350,751
Foster	$236,043	$262,436	$224,051	South Kingstown	$431,029	$464,512	$2,512,664
Glocester	$425,628	$657,807	$552,456	Tiverton	$1,822,687	$848,274	$1,050,491
Hopkinton	$405,897	$409,680	$398,392	Warren	$570,013	$745,644	$1,045,506
Jamestown	$391,578	$461,530	$372,893	Warwick	$6,447,573	$9,140,948	$7,645,382
Johnston	$2,350,389	$3,818,132	$2,685,268	West Greenwich	$1,126,167	$661,300	$1,116,009
Lincoln	$2,477,748	$2,314,841	$2,373,987	West Warwick	$1,960,687	$2,254,910	$2,301,756
Little Compton	$164,851	$236,207	$213,453	Westerly	$1,581,106	$2,146,344	$1,638,996
Middletown	$1,131,318	$2,038,161	$1,049,934	Woonsocket	$2,726,868	$1,675,794	$2,837,517
Narragansett	$2,862,297	$3,181,443	$2,671,304	Grand Total	$81,713,288	$98,673,762	$103,098,284

2022 COMMERCIAL, INDUSTRIAL & PUBLIC FINANCE

Large C&I Revolving Loan Fund

Through the electric large C&I revolving loan fund, Rhode Island Energy offered $1 million through one loan in on-bill financing to one large commercial customers. At the end of 2022, the fund had a balance of $1 million (including committed 2022 dollars). After accounting for the approved $1 injection, the electric Large C&I revolving loan fund begins 2023 with a balance of $1. This amount will be available for loans in 2023 and beyond.

Through the gas large C&I revolving loan fund, Rhode Island Energy offered $1 million in loans to 1 large commercial customers. At the end of 2022, the fund had a balance of $1 million (including committed 2022 dollars). The gas large C&I revolving loan fund begins 2023 with a balance of $1. This amount will be available for loans in 2023 and beyond.

Rhode Island Energy continues to wind down the revolving loan fund in support of the RI Public Energy Partnership (RIPEP). Zero customers participated in this offering in 2022. At the end of 2022, the fund had a balance of $. Rhode Island Energy anticipates that the final loans will be repaid in 2023, allowing for the remaining funds to be returned to RI OER.

Small Business Revolving Loan Fund

All Small Business Direct Install program participants receive financing to cover 30% of project costs, either over 24 months at 0% interest or a lump sum payment with a 15% discount. Through the small business revolving loan fund, Rhode Island Energy offered $1 million in loans to 1 small business customers. At the end of 2022, the fund had a balance of $1 million.

Efficient Buildings Fund

Since 2015, Rhode Island Energy, the Rhode Island Office of Energy Resources (OER), and the Rhode Island Infrastructure Bank (RIIB) have been working together to leverage system benefit charge (SBC) funds and drive energy improvements in facilities in cities and towns across Rhode Island.

In 2022, the Efficient Buildings Fund (EBF) approved projects to help the Town of Hopkinton install solar on Town facilities and for the Town of Smithfield to make efficiency improvements to two of its school buildings. These projects will help these communities reduce both their energy costs and their emissions.

Since inception, the EBF has supported 22 projects to municipalities, loaning out over $69 million dollars to support a variety of energy efficiency projects. These will deliver $109 million in savings over the lifetime of the installed measures.

Commercial Property Assessed Clean Energy

Since the Commercial Property Assessed Clean Energy (C-PACE) program was adopted in Rhode Island in 2015, 33 projects have been completed, totaling over $87 million in energy efficiency and renewable energy for businesses. Outreach by the Rhode Island Infrastructure Bank and Rhode Island Energy will continue in 2023.

2022 DEMONSTRATIONS, PILOTS & ASSESSMENTS

Table 3. 2022 Demonstrations, Pilots and Assessments in Residential and Commercial & Industrial Sectors including objectives, brief findings, and next steps.

Pilot, Demonstration, or Assessment	Objectives	Findings	Next Steps
HVAC Lighting Controls Plus *C&I Demonstration*	Demonstrate HVAC lighting controls plus. Develop M&V plan for demonstration site	Limited potential for HVAC lighting controls. No other potential customers successfully contacted	Demonstration completed and retired. No additional potential customers will be contacted.
Kitchen Exhaust *C&I Demonstration*	Demonstrate kitchen exhaust offering	Lack of available products and customers	Demonstration retired
Building Flexibility Through Demand Response *C&I Assessment*	Conduct interviews and research to determine building flexibility through demand response	Findings in progress	Assessment procedure complete. Analysis still in progress
Refrigeration Leak Survey & Repair *C&I Demonstration*	Monitor refrigerant leakage and energy consumption at participating facility. Install metering at facility	Findings in progress	Complete savings and cost effectiveness analysis
Gas Demand Response *C&I Pilot*	Collect and analyze gas customer data. Conduct gas response pilot in the winter of 2022-23	Findings in progress	Engage with potential gas DR customers. Conduct winter 2022-23 gas response pilot
Gas Heat Pumps *C&I Demonstration*	Demonstrate cost-effectiveness of HPs for gas customers. Recruit potential customers	Limited demand and opportunities for this demonstration. Demonstration not necessary	Demonstration closed and retired
Rightsizing Rooftop Units *C&I Assessment*	Identify strategies for rightsizing RTUs. Implement strategies into program design and implementation	Findings in progress	Assessment completed. Rhode Island Energy will incorporate findings into future program offerings

Table 3 (continued). 2022 Demonstrations, Pilots and Assessments in Residential and Commercial & Industrial Sectors including objectives, brief findings, and next steps.

Pilot, Demonstration, or Assessment	Objectives	Findings	Next Steps
Automated Rooftop Unit Optimization *C&I Demonstration*	Recruit customers and install / monitor equipment. Demonstrate optimized automated RTUs	Findings in progress	Continue recruitment of customers and installations. Measure winter performance of RTUs
Strategic Energy Management / Continuos Energy Improvement *C&I Demonstration*	Conduct workshops demonstrating energy savings of SEM / CEI projects	Gas and electric savings produced by demonstrations of SEM / CEI projects	Demonstration completed and retired. Energy savings are still being fully determined
Air Curtains *C&I Demonstration*	Review similar air curtains measures in other regions, and develop / demonstrate a RI-specific offering	RI-specific measure can be developed in conjunction with MA. Findings in progress	Continue collaboration with MA to develop the program offering and market plan
Smart Valves for Chilled Water Systems *C&I Demonstration*	Demonstrate smart valves for chilled water systems. Recruit customers, monitor installed systems, develop analysis framework, and assess savings / cost-effectiveness	Findings in progress	Outreach for additional sites has been discontinued. Analysis of savings / cost-effectiveness is being finalized. Market strategy is in progress
New Air Sealing & Insulation *Residential Demonstration*	Demonstrate air sealing opportunity in residential programs. Connect with injection insulation vendor and identify target homes / customers	Air sealing opportunity exists for residential customers	Demonstration has been retired. Rhode Island Energy is working with lead weatherization vendors to identify new sites and complete additional installations
Solar Inverter DLC *Residential Demonstration*	Demonstrate solar inverter technology. Prepare a report detailing savings associated with solar inverters	Solar inverter technology successfully demonstrated	Demonstration has been completed. EM&V vendor is preparing the report. Solar Inverter program is set to launch in 2023
Final Gas Appliances *Residential Assessment*	Assess opportunities for electric appliances at new homes	Findings in progress	Assessment has been finalized.
Gas Heat Pumps *Residential Demonstration*	Monitor and analyze performance / determine cost effectiveness of gas HPs for residential customers	Cost effectiveness is poor. Observed limited project interest and slow payback period	Demonstration has been retired. Given reductions in the EM&V budget, funds are no longer available. If market conditions change significantly, funding for additional research may be proposed

2022 CROSS-SECTOR PROGRAMS

Community Initiative

The Rhode Island Community Initiative is Rhode Island Energy's energy efficiency awareness campaign that drives program participation by engagement with communities ranging from residents and small businesses to business parks or other types of communities and local officials.

The Quonset Development Corporation (QDC) and Rhode Island Energy (RI Energy) have signed a new three-year agreement continuing the energy efficiency partnership begun in 2020. Building on the success to date, this partnership provides continued access to technical assistance and enhanced incentives to identify and implement energy-savings projects. In support, QDC and RI Energy will continue to provide workshops to introduce energy programs and technologies to the Quonset community.

The goal is helping all Quonset companies, as well as sites working with QDC and the RI Ready Program, participate in RI Energy customer programs. Over the next three-years, we also hope to engage the 13,000 Quonset employees in residential energy efficiency programs.

Since this partnership began, Quonset businesses have:

- Received over $4 million in incentives for completed energy efficiency improvements
- Saved over $3 million annually on their energy bills
- Saved over 17 million kWh of electricity
- Saved more than 300,000 gas therms

Greenhouse gas emissions reductions equivalent to removing 2,600 gas powered vehicles for one year.

Also in 2022, Rhode Island Energy signed a Community Solutions MOU with the City of East Providence, our first partnership with a Rhode Island municipality. This MOU establishes a SEMP for city-owned buildings. It also establishes goals and priorities for partnering with the City to reach commercial and residential customers. The three-year partnership began on November 1, 2022, which is the start of the City's Fiscal Year.

Building Energy Codes and Appliance Standards

The Codes and Standards initiative provides targeted stakeholder outreach and technical guidance to improve compliance with minimum energy efficiency policies currently in effect and accelerate the improvement of these minimum efficiency requirements. The Codes and Standards initiative provides targeted stakeholder outreach and technical guidance to improve compliance with minimum energy efficiency policies currently in effect and accelerate the improvement of these minimum efficiency requirements. In 2022 Rhode Island Energy continued to expand its energy code compliance support services to a variety of stakeholder groups.

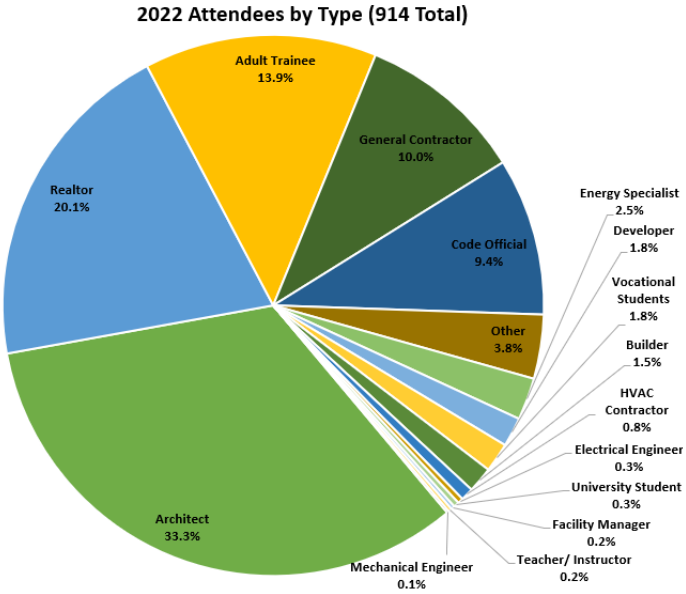


Figure 3. Code Compliance Enhancement Initiative (CCEI) Training Attendees by Type.

In 2022, the Code Compliance Enhancement Initiative (CCEI) conducted 53 training events across the state with 914 total attendees, a 29% increase participation compared to 2021.

Rhode Island Energy partnered with several local organizations to promote and deliver trainings, including:

- Rhode Island Builders Association
- Rhode Island Building Officials Association
- American Institute of Architects – Rhode Island
- Rhode Island Association of Realtors
- Rhode Island Plumbing & Mechanical Inspectors Association

The CCEI team also continued its partnership with the Residential Construction Workforce Partnership, with a new session of 33 participants launching in October 2022.

Trainings sponsored through this initiative engaged a diverse range of participants. While code officials have historically been CCEI's most targeted audience, reaching design professionals continued to be a focus in 2022, with architects now representing the largest portion of attendees, constituting 33% of attendees, up from 23% of attendees in 2021.

In addition to classroom and on-site trainings, CCEI also provides project-specific technical assistance as well as development and dissemination of energy code documentation/ compliance assistance tools. Rhode Island Energy also continues to support awareness and use of the RI Stretch Code through CCEI, including promotion at training events and through fundamental technical guidance.

The next Rhode Island Energy Conservation Code is expected to be adopted in 2023 and to be based on IECC 2021. To help prepare for this change, CCEI is collaborating with the Rhode Island Building Code Commission to train as many Rhode Island builders, architects, and code officials as possible on building techniques to meet the new code requirements.

With the adoption of the Appliance and Equipment Energy and Water Efficiency Standards Act of 2021 by the Rhode Island General Assembly, minimum efficiency standards for 15 household and commercial products, including gas fireplaces, restaurant equipment, water coolers, and showerheads were established. These new requirements went into effect as of January 1, 2023 and are expected to reduce greenhouse gas emissions by 256,000 metric tons between 2023 and 2035, an amount equivalent to taking 56,000 cars off the road for a year. Consumers and businesses will save $10 million on utility bills annually beginning in 2025, growing to $44 million per year in 2035.

Block Island Energy Efficiency Program

Block Island Utility District (BIUD), with the support of OER and funding from RGGI auction proceeds, launched its first utility-run energy efficiency program with PUC approval in 2020. The efficiency program aims to educate and engage BIUD customers and deliver energy conservation measures including energy

efficiency assessments, and upgrades to LED lighting, insulation and weatherization, and more efficient HVAC equipment. Rhode Island Energy district started the energy efficiency program to provide its customers with more information about, and control over, their energy usage and to help manage the extreme peaks experienced on its grid due to the seasonal nature of operations on Block Island.

The 2022-2023 energy efficiency plan seeks to build on the initial customer interest for residential energy assessments, while also serving more business customers and working to facilitate greater contractor interest in serving the growing pipeline of customers on the island for weatherization and HVAC related services. The program year runs from June through the following May and BIUD expects to have its 2023-2024 plan in front of the PUC for review and approval in April of 2023. Further details about the new energy efficiency program can be found on Block Island Utility District's website: https://blockislandpowercompany.com/

Energy Efficiency in Pascoag Utility District

The 2022 energy efficiency plan continued to deliver significant energy and cost savings to PUD customers through energy efficiency audits, LED lighting, and strong incentives for insulation and HVAC equipment upgrades. Rhode Island Energy also conducted a customer survey to inform future program development and investment opportunities throughout 2022. Based on the results of this survey, continued customer demand for efficiency programming, and the prior success of this effort, PUD proposed a modest increase in its energy efficiency charge for the first time. This increase, approved by the PUC to take effect in 2023, will help support continued investment in the core efficiency strategies that Pascoag customers have enjoyed for the past 5+ years and will position them to have a robust and self-sustaining efficiency program for years to come.

Zero-Energy Buildings Task Force and Working Group

In 2022, Rhode Island Energy provided technical support for several Residential New Construction (RNC) Program zero energy and Passive House projects, which included contractor training, in-field support, and design review. We have also developed and delivered a presentation on Designing HVAC for Large Spaces with Low Loads. The RNC Program Vendor continues to provide technical support for Zero Energy homes across the state, including 194 seeking Passive House certification and 6 seeking DOE Zero Energy Ready certification.

In June 2022 the RNC Program held tours of a DOE Zero Energy Ready (ZER) renovation on Boylston Ave in East Providence:

- The owner/architect opened their single-family home to the public and shared their experience with meeting DOE ZER standards without increasing costs or using unconventional construction techniques
- Attendees were given a presentation featuring the owner/architect; the builder, who gave an overview of the construction, insulation, and air sealing details; and Jon Erickson from CLEAResult representing Rhode Island Energy's RNC Program, who discussed how the home will not only have

The "Pretty Good House": Zero Energy Ready Renovation

Rhode Island Energy

Project Background

The objective of the project, from an energy perspective, was to achieve Net Zero energy performance, without adding significantly to the cost of construction or using unusual building practices and materials. Learn more about the Pretty Good House concept at: www.prettygoodhouse.org.

Location: Providence, RI
Architect: Chris Royer
Website: www.royerarchitects.com
Contractor: Halmac Construction
Website: www.halmacri.com

Project Highlights

Simple Compact Design
- The home's design minimizes the area of thermal envelope in relation to interior living space

Reduced Carbon Inputs
- No structural steel was used, and the use of concrete was minimized
- Over 50% of the foundation is from the old structure
- 8" thick concrete foundation walls used instead of 10" thick
- No basement or crawlspace slabs

Tight Building Envelope
- Preliminary blower door test was 0.16 ACH50
- Minimized unnecessary holes and gaps in the thermal envelope and sealed all required penetrations

Pretty Good Insulation
- Roughly followed the 10-20-40-60 rule of thumb for cold climates
- Minimized thermal bridging of insulation
- Insulation is primarily dense pack cellulose in the cavity with 1" Zip R exterior sheathing

Electric HVAC and Domestic Hot Water
- 2.5 tons ducted Mitsubishi mini split heat pump
- Panasonic FV-10EV2 100 cfm ERV – to ensure fresh air while minimizing energy loss
- Electric heat-pump domestic hot water heater

Solar Ready
- The south roof is ready for the installation of photovoltaic solar panel

Questions?
Call: 855-343-0105

CLEAResult

reduced energy use and operating costs but will have optimal indoor air quality and improved comfort and resilience. The HVAC contractor for the project, was also in attendance and fielded questions on heat pumps.

More than 40 people attended, including local building code inspectors, architects, realtors, students and professors from RISD and Brown, representatives from the International Code Council, Rhode Island Housing, the City of Providence Office of Sustainability, Rhode Island Energy, as well as neighbors curious to learn about the renovation project.

Zero Energy for the Ocean State

Since 2019, the Office of Energy Resources, RI Housing, and Rhode Island Energy have partnered together for the Zero Energy for the Ocean State (ZEOS) program. This program provides grants to builders to create innovative, replicable, zero energy housing for low- and moderate-income Rhode Islanders. To date, six residential projects have been supported through this program and in 2023, a third round of funding was announced to continue this program.

In 2022, ZEOS received a national award for program excellence from the National Council for State Housing Agencies (NCSHA).

The NCSHA Annual Awards for Program Excellence were created to identify and elevate industry best practices as well as encourage continued Housing Finance Agency (HFA) innovation.

The competitors for the national awards, which are given out annually at NCSHA's national conference, were each of the 50 states' HFAs plus four territories and districts. More information can be found at: www.ncsha.org/wp-content/uploads/Rhode-Island-Rental-Housing-Multifamily-Management-2022.pdf

Residential New Construction Program Passive House Tour & Training

1492 Westminster Street, Providence, recently participated in the RNC Program and was certified for Energy Star, DOE Zero Energy Ready and Passive House.

It is the first mixed-use, multifamily building in Rhode Island built to the exacting Passive House standards administered by the Passive House Institute US (PHIUS).

Located on a narrow, vacant, urban infill site, it consists of a ground floor commercial space and seven one-bedroom apartment units, including an accessible unit on the ground floor.

A tour of the project was held in December 2022, with 22 attendees, including several graduates from the RCWP pre-apprentice program. More information can be found at: https://rcwpri.org/training-programs/

Attendees gathered in the commercial space, which is currently occupied by Lucky Enough Eat and Drink, for a presentation on the project delivered by the RNC Program Vendor and the project team.

Building Operator Certification

In 2022, Rhode Island Energy continued its long-standing sponsorship of Building Operator Certification (BOC) training that is discounted or free for building operators in Rhode Island. Those that completed the course are expected to benefit by learning to better communicate with occupants about maximizing facility efficiency, identify low-cost energy conservation opportunities, and implement best practices in preventative maintenance.

2022 COUNCIL PUBLIC EDUCATION EFFORTS

"Energy Explained RI" Video Series

In 2022, the EERMC and the RI Office of Energy Resources produced the "Energy Explained RI" video series, which takes a closer look at some of the energy issues that impact our lives here in Rhode Island. The series covers five important topics for Rhode Island residents to understand about energy. The videos can be viewed at https://rieermc.ri.gov/energy-videos/.

EERMC Annual Public Forum

In April 2022, the EERMC hosted a virtual public forum titled "Rising to the Challenge: A Turning Point for Rhode Island's Energy Future." As we navigate into a new era of tackling the complex issues surrounding energy and climate change, Rhode Island is poised for action through bold decision-making and coordinated efforts. This virtual public forum brought together expert panelists in a variety of roles to discuss the future of our energy landscape – from state goals to regional collaboration and national leadership.

From her leadership position at the United States Department of Energy, keynote speaker Whitney Muse kicked off the event with a national perspective on America's energy future, discussing the country's most pressing challenges and opportunities related to energy efficiency, environmental justice and more.

The first panel focused on the role of cross-state cooperation in New England's energy future. New England's six states face unique challenges, as relatively small geographic jurisdictions that must approach energy issues both individually and together. This panel featured energy experts in regional roles for a broad conversation on New England's most pressing energy challenges.

The second panel looked at implementing Rhode Island's ambitious 2021 Act on Climate Law. This panel brought together the two co-sponsors of the Act on Climate, as well as energy efficiency and sustainability leaders in the public and private sectors to discuss: Now that the ink is dry on the law, what's next?

The recording of the session can be viewed at https://rieermc.ri.gov/eermc-annual-public-forum/

Energy Expo at the Rhode Island Home Show

Each year since 2014, the EERMC, along with Rhode Island Energy, sponsors the Energy Expo at the Rhode Island Home Show. The goal of the Energy Expo is to partner with the Rhode Island Builders Association (RIBA) to connect Rhode Islanders with resources to help reduce energy usage, save money, and increase the comfort of their homes. At the Energy Expo, residents can interact with dozens of energy related companies and organizations, sign-up for a free home energy assessment, and purchase energy efficiency kits to start saving money immediately. In 2022, RIBA produced its first Home Show since the pandemic. It saw 15,000 attendees, 77% from Rhode Island and 23% from Massachusetts. The Energy Expo featured dozens of energy-related vendors throughout the show floor, a student-built energy efficient home demonstration, no-cost home energy assessment sign-ups, and information on clean energy programs available in Rhode Island. Learn more at https://ribahomeshow.com/learn/.

Energy Training for K-12 Educators

In 2022, the EERMC partnered with GBRI to provide free continuing education training for educators in Rhode Island around the topics of energy efficiency, renewable energy, climate science, energy equity, and more. A total of 10 three-hour workshops were offered based on a K-12 curriculum developed by the National Energy Education Development (NEED) Project for Rhode Island. The "Energy, Climate, and You" curriculum is a multidisciplinary unit that introduces students to energy consumption, energy efficiency, conservation, and energy burden in Rhode Island, and how energy use can impact the climate and the health of Rhode Islanders. In addition to the free K-12 energy curriculum developed by The NEED Project for Rhode Island, workshop participants also received a fully customizable PowerPoint presentation, short educational videos for classroom learning, interactive activities, and student engagement ideas. Over 300 educators were reached through this initiative in 2022.

Farm Energy Outreach

Due to the volatile nature and seasonality of many farm businesses, keeping costs low is vital to their success. However, participation in the half-dozen available farm energy programs has remained relatively low in comparison with other small-scale programs. Conversations with stakeholders, energy program administrators, and Rhode Island Energy suggest low participation is due, in part, to a lack of knowledge of available programs.

In 2022, the EERMC and the Office of Energy Resources co-funded a University of Rhode Island Energy Fellow from February through December to assist with outreach to the farm community regarding energy management. The Energy Fellow conducted outreach virtually through, email, attendance at farmer's markets, and one-on-one phone calls. The 2022 Energy Fellow placed her focus on increasing awareness about thermal decarbonization options available to farmers, such as air source heat pumps and heat pump water heaters. She developed flyers to promote heat pump technologies through RI AgEP, and visited nearly every farmers market open in Rhode Island during the busy season. These efforts were successful in engaging farmers for the Fall 2022 round, which saw the first heat pump applications come through the program. A video profile for Sweet and Salty Farm in Little Compton was written, filmed, and produced describing the benefits of several clean energy projects on the farm's operations and the programs utilized to implement that work. This video will be published to the OER website in 2023, along with the other Energy Profile Videos. These video profiles help supplement written energy profiles to share the success stories of agribusinesses tackling clean energy projects. Social Media outreach was conducted through the program's growing online presence: Facebook and Instagram (@RIFarmEnergyResources).

Combined Heat and Power Public Meeting

On Wednesday, June 22, 2022, the EERMC hosted the Annual Rhode Island Combined Heat and Power (CHP) Stakeholder Meeting virtually. As a legislative mandate, this meeting gives stakeholders the opportunity to provide feedback on the state's CHP programs and policies. The meeting also serves to inform CHP developers and potential customers about current program details and financing options. The meetings are timed to allow for any recommendations to be incorporated, as appropriate, into the Three-Year and Annual Energy Efficiency Program Plans.

There were 22 participants, the majority of which were CHP developers or vendors that provide related technical assistance or financing.

2022 ENERGY JUSTICE & EQUITY EFFORTS

In 2022 the EERMC continued to take steps to increase awareness of energy justice and improve the understanding of equity as it relates to energy efficiency.

Energy Efficiency Equity Working Group

As a part of Rhode Island Energy's 2022 Annual Energy Efficiency Program, they committed to continuing work with the Office of Energy Resources to co-host an Equity Working Group. The goal of this working group was to provide Rhode Island Energy with written recommendations to advance equity in the planning, design, and delivery of its Energy Efficiency Programs. The Equity Working Group was comprised of over twenty-five representatives from state agencies, community-based organizations, advocacy organizations, and local subject matter experts in equity. The Equity Working Group met five times in 2022 and provided a space where voices and concerns of impacted communities could inform discussions on equity issues and to help identify areas of importance and focus around issues of equity for the energy efficiency programs.

In addition to the Equity Working Group itself, its members prioritized two topics to focus on in 2022 – Outreach and Engagement and Workforce Development and Training. To address these two topic areas, the Equity Working Group created subgroups which each met three times during the course of 2022. Following the series of working group and subgroup meetings, members aligned on a series of recommendations for Rhode Island Energy to consider in the development of their

2023 Annual Energy Efficiency Plan. In its 2023 Annual Energy Efficiency Plan, Rhode Island Energy highlighted the Equity Working Group's recommendations and provided commitments that aim to be responsive to each recommendation.[4]

EERMC Activities on Advancing Equity in RI Energy Efficiency Programs

In 2022, the EERMC held two Councilor Learning, Education and Advancement Discussion (LEAD) sessions, each of which including topics related to advancing equity in Rhode Island's energy efficiency programs. At its first LEAD session on June 30th, the EERMC received a presentation and held discussion on the results of the Nonparticipant Market Barriers and Participation and Multifamily Census studies. At its second LEAD session on November 28th, the EERMC's Consulting Team gave a presentation[5] on Massachusetts energy efficiency equity targets, metrics and reporting and lessons learned that may be transferable to Rhode Island. During each of the LEAD sessions, Councilors followed the presentations with an open conversation around equity and its importance in future energy efficiency planning considerations. Energy equity remains a priority for the EERMC and conversations are ongoing in 2023.

Equity in EERMC Priorities and Policy Recommendations

This year the Council has once again included equity considerations in its stated priorities for the 2024-2026 Three Year and 2024 Annual Energy Efficiency Program Plans, as well as in its Policy Recommendations (pages 16 and 17 of this report). Emphasizing and embedding equity considerations in the design and delivery of all state energy programs is critical to ensuring that all Rhode Islanders receive the maximum possible benefits.

In 2021, Rhode Island Energy conducted two relevant studies – the "Nonparticipant Market Barriers Study" and the "Participation and Multifamily Census Study", which are available on the Council's website.[5] The Council will continue to hold Rhode Island Energy accountable for sufficiently applying the results of these studies, as well as demonstrating progress on – and building upon – recommendations from the Equity Working Group. The barriers and recommendations identified through these efforts should be utilized to develop detailed remediation strategies to assure corrective action on underperforming programs, including the income eligible and multifamily programs.

[4] For more information on Rhode Island Energy's planned enhancements related to the Equity Working Group recommendations, please see Section 2.5.1 – Cross-Cutting Programs – Equity of the 2022 Annual Energy Efficiency Plan, available at: http://rieermc.ri.gov/wp-content/uploads/2022/02/5189-ngrid-energy-efficiency-plan-2022-puc-10-1-21.pdf.

[5] The presentation is available on the Council's website at: https://rieermc.ri.gov/meeting/eermc-meeting-2022-councilor-learning-education-advancement-discussion-session-2/.

[6] See the EM&V Studies section of the Council's Resources page at: https://rieermc.ri.gov/resources/.

2022 PLANNING INITIATIVES

State Goals: State Energy Plan & Greenhouse Gas Reduction Goals

2022 was the first full year of efficiency programming since the signing of the landmark 2021 Act on Climate. The 2021 Act on Climate sets a requirement that Rhode Island must achieve net-zero carbon emissions economy-wide by 2050.

The Act on Climate required that the RI Executive Climate Change Coordinating Council (EC4) provide an update on the state's greenhouse gas emissions reduction plan, which was published December 15th, 2022.[7] This report showed that as of 2019, the state's economy-wide emissions are estimated to be 10.82 MMTCo2e, 1.8 percent below 2016 emissions. Electric power consumption emissions decreased by 28 percent and industrial emissions decreased by 9.2 percent, but residential heating emissions increased by 13.5 percent and commercial heating emissions increased by 8.8 percent. This report identified energy efficiency as a priority action for reducing emissions from the electric sector and the next comprehensive emissions reduction plan will be published by the EC4 in 2025.

In 2022, Rhode Island also signed into law a requirement to achieve a 100 percent renewable energy standard by 2033. This is the most aggressive renewable energy standard in the country, and meeting this requirement will be a vital element for achieving the goals set by the 2021 Act on Climate.

Energy 2035: The Rhode Island State Energy Plan, formally adopted in October 2015, lays out a long-term, comprehensive energy strategy for Rhode Island. The vision of the Plan is to provide energy services across all sectors—electricity, thermal, and transportation—using a secure, cost- effective, and sustainable energy system. The Plan identifies energy

[7] https://climatechange.ri.gov/media/1261/download?language=en

efficiency as the state's "first fuel" and a centerpiece strategy for achieving the Rhode Island Energy 2035 Vision. The State Energy Plan identifies energy efficiency as the lowest-risk, lowest-cost, and arguably, the most sustainable energy resource available for Rhode Island. The Plan also lists Least Cost Procurement as one of Rhode Island's cornerstone energy policies, and the primary vehicle for delivering the benefits of energy efficiency to Rhode Island consumers and businesses.

RI 2030[8] was released in 2021 as a working document of the State's priorities for the next decade. This plan identifies climate objectives including examining opportunities for a renewable thermal standard, replacing fossil fuel electricity generation with renewable resources, and continuing investment in energy efficiency as a foundational climate strategy.

To achieve the objectives of these plans and the Act on Climate, the Energy Efficiency and Resource Management Council is working closely with the Office of Energy Resources and the EC4 to ensure that Rhode Island's energy efficiency programs continue to provide a strong foundation for the necessary energy demand reduction.

Market Potential Study & Energy Efficiency Savings Targets

In preparation for the development of the 2021-2023 Three-Year Energy Efficiency and System Reliability Procurement Plans, the EERMC commissioned a Rhode Island Market Potential Study (RI MPS) to quantitatively assess the level of energy savings that can be achieved over the next several years. The EERMC selected Dunsky Energy + Climate Advisors to conduct the study, which covered energy efficiency, demand response, heating electrification, combined heat and power, and behind-the-meter distributed generation and renewable energy. The MPS covered calendar years 2021-2026 and was used as a key input in the process of setting three-year Energy Savings Targets, which are developed by the EERMC and approved by the PUC.

To inform the Energy Savings Targets for the 2024-2026 period, the EERMC contracted with the RI MPS vendor to conduct an update to the original study. The update to the RI MPS for the 2024-2026 period made considerations for updated codes and standards, evaluation results, and avoided cost estimates. The update was also more limited in scope to only included energy efficiency and demand response, as well as a single achievable scenario. The results of this update informed the Council's recommended Energy Savings Targets for the 2024-2026 period, which were filed with the PUC on April 28. 2023.

Three-Year Energy Efficiency Program Plans

As part of the legislated triennial process to develop Three-Year Energy Efficiency and System Reliability Plans, the EERMC worked with Rhode Island Energy, the Office of Energy Resources, the Division of Public Utilities and Carriers, and other key stakeholders to develop the 2021-2023 Energy Efficiency Program Plan for Rhode Island. Rhode Island Energy filed the Three-Year Plan with the Public Utilities Commission on October 15, 2020. The purpose of this Three-Year Plan was to establish an overarching strategy for the next three years that will enable Rhode Island Energy to successfully meet the goals of Least Cost Procurement and meet the Energy Savings Targets developed by the EERMC and approved by the Public Utilities Commission. The Three-Year Plan met the objectives of being cost-effective and less than the cost of supply, and is grounded in economics, flexible to changing market conditions, and designed to maximize consumer benefit. The Public Utilities Commission formally adopted the Three-Year plan in a written Order that was issued on September 21, 2021.

While the 2021-2023 Energy Efficiency Plan has guided the work of the annual plans for the past three years, work is already underway in 2023 to set the stage for the next three-year period of 2024-2026. An initial outline of the 2024-2026 plan was delivered to stakeholders on April 6th and the first draft is slated to be delivered in June. It is anticipated that the final draft of the 2024-2026 Plan will be considered by the Council in September with Rhode Island Energy filing the Plan in October.

Annual Energy Efficiency Program Plan

In addition to the Three-Year plan, Annual Energy Efficiency Program Plans (Annual Plans) are developed by Rhode Island Energy with significant stakeholder input. These Annual Plans clearly define how the energy efficiency programs will be implemented and specify how the programs will be cost-effective. The Annual Plans are considered by the Council and are ultimately reviewed and ruled on by the PUC. Work on the 2024 Annual Plan is already underway and is expected to follow a similar timeline

[8] https://ri2030.com/_files/public/RI%202030_final.pdf

as the 2024-2026 Plan described above.

System Reliability Procurement

As an electric and gas distribution company, Rhode Island Energy (RIE) owns and operates the electric and gas distribution systems. The electric distribution system is composed of the entirety of poles, wires, transformers, substations, and other infrastructure that supports delivering electricity to customers across Rhode Island. The gas distribution system is composed of the pipelines, gate stations, pumps, and other infrastructure required to move gas through the pipelines to the equipment that uses it. As customer needs change, generation evolves, and technology matures, RIE continually examines its electric and gas distribution systems to prioritize necessary investments for maintaining safe, affordable, reliable electricity and gas service.

System Reliability Procurement (SRP) is one strategy for investing in electric and gas distribution systems.[9] Unlike RIE's direct ownership of, say, the poles and wires that make up our electric grid (called Utility Reliability Procurement), through SRP, RIE identifies targeted alternative solutions to certain distribution system needs that are instead owned by third-party vendors. These solutions are referred to as non-wires solutions and non-pipes solutions, which include both customer-side and network-side solutions and which must be cost-effective, reliable, prudent, environmentally responsible, and provide the path to lower supply and delivery costs to customers in Rhode Island.

In 2022, RIE continued to progress actions described in the 2021-2023 System Reliability Procurement Three-Year Plan (SRP Plan).

- **Non-wires solutions:** RIE continued to screen electric distribution system needs for the potential to be served by non-wires solutions in alignment with Least-Cost Procurement statute, standards, and the 2021-2023 SRP Plan. For all electric distribution system needs, system reliability procurement was not a viable investment strategy, so RIE pursued utility reliability procurement.
- **Non-pipes solutions:** In 2022, RIE made progress toward producing a detailed initial non-pipes solution program, including continued analysis of the current non-pipes solutions screening and development process, and continued background research on non-pipes solutions. RIE engaged stakeholders in the development of a non-pipes solution program, opportunities, and challenges through the SRP Technical Working Group. Even though the non-pipes program is still in development, RIE actively screened gas distribution system needs for the potential to be served by non-pipe solutions but determined system reliability procurement was not a viable investment strategy.
- **Coordination:** All investments RIE proposes are aimed at advancing safe, affordable, reliable, decarbonized energy distribution to satisfied customers. As such, RIE must coordinate across all investment portfolios, including Infrastructure, Safety, and Reliability Plans, Energy Efficiency Plans, Renewable Energy Programs, and others. Of note in 2022, RIE filed its Advanced Metering Functionality Business Case and its Grid Modernization Plan, and the Public Utilities Commission opened its Future of Gas docket. RIE has and will continue to coordinate internally.
- **Stakeholder engagement:** RIE revitalized the SRP Technical Working Group, an external stakeholder group that advises RIE on matters related to system reliability procurement. In 2022, the SRP Technical Working Group conducted work planning for the 2023 calendar year.

Additional detail about RIE's activities in 2022 related to system reliability procurement, including assessment of non-wires solutions and advancements in non-pipes solution program development, can be found in RIE's 2022 System Reliability Procurement Year-End Report (forthcoming filing with the Public Utilities Commission).

[9] System Reliability Procurement (SRP) is a statutory obligation of public utilities and carriers under RIGL 39-1-27.7 (commonly referred to as "Least-Cost Procurement"). The purpose of SRP within the overarching umbrella of least-cost procurement is "Least-cost procurement shall comprise system reliability and energy efficiency and conservation procurement, as provided for in this section, and supply procurement, as provided for in § 39-1-27.8, as complementary but distinct activities that have as common purpose meeting electrical and natural gas energy needs in Rhode Island, in a manner that is optimally cost-effective, reliable, prudent, and environmentally responsible" [RIGL 39-1-27.7(a)].

2023 ENERGY EFFICIENCY PROGRAM PLAN HIGHLIGHTS

2023 RESIDENTIAL PROGRAMS

In 2023, Rhode Island Energy will continue all residential programs offered in 2022 and will additionally focus on changes that improve equity and access and that leverage findings from the non-participant and participant studies.

Residential New Construction

Rhode Island Energy is currently conducting research on new all-electric construction called Closing the Gas Gap for All Electric Homes that was detailed in the 2022 plan. The goal of this assessment is to examine how the programs can promote new construction of all-electric buildings (without a gas connection) in part through incentivizing the electric alternative of these appliances. The assessment will examine high-efficiency options for electric appliances as alternatives to less-efficient electric equipment or gas equipment. Rhode Island Energy plans to use the results of this assessment, together with the results of the Residential New Construction and Code Compliance study also underway, to consider a transition to electric-only new construction.

The High-Efficiency Heating, Cooling, and Hot Water Programs

The HVAC Electric and Gas Program is cross-promoted through the Energy*Wise*, Residential New Construction, Community-Based Initiative, and Home Energy Reports Programs. The Electric HVAC Program and the Residential New Construction and the Major Renovations component of Residential New Construction will work closely together to develop and implement an HVAC contractor training for the design and installation of heating/cooling/ventilation/hot water systems in projects striving to meet Zero Net Energy and Passive House.

Income Eligible Enhancements

In recent years, some CAP agencies have had difficulty meeting their budget goals due to insufficient staffing, while others have flourished and exceeded their goals. To improve the efficiency of this program, the Lead Vendor will facilitate the Interagency Referral program in 2023. This referral

program will enable well-performing CAPs to take on more work in underperforming CAP territories to leverage those underutilized budgets. Doing so is expected to improve access to the program, increase participation, and improve equity by ensuring that underserved territories are better able to meet their goals and serve more customers.

Multifamily Program

In the multifamily program, Rhode Island Energy will increase focus and outreach on landlords and non-participants that have high propensity scores. Propensity scores were based on how similar nonparticipant customers were to participants in terms of home ownership, age, income, and other factors. The study found that customers that were similar to customers who had participated in programs would be more likely to participate themselves, and therefore outreach to those customers would likely be the most effective. In addition to focusing on customers with high propensity scores, Rhode Island Energy will also concentrate efforts on other historically underserved participant groups, such as renters through landlord outreach. These changes are expected to improve and expand access to Rhode Island Energy's programs and better serve communities in RI who historically have not participated in these programs.

2023 COMMERCIAL AND INDUSTRIAL PROGRAMS

In 2023, Rhode Island Energy is focused on building a program ecosystem that supports a more diversified mix of electric measures, while harvesting remaining lighting savings, controlling program costs, and promoting equity among small business owners and within the workforce. Although Rhode Island Energy anticipates that lighting will continue to constitute the largest single source of electric savings in the C&I programs, its efforts are focused on driving non-lighting program enhancements that encourage deeper, more comprehensive measure adoption and build for long-term program success. There is a particular focus on high-efficiency heating, cooling, ventilation, and air conditioning (HVAC) measures, as well as controls to improve the performance of HVAC equipment.

In 2023, some highlights of Rhode Island Energy's efforts will be to:

- Scale up the Building Analytics initiative to help customers optimize the performance of HVAC and other systems.
- Improve technical processes by streamlining savings calculators, revisiting burdensome data collection practices, and better leveraging site visits to identify EE opportunities.
- Expand on equity efforts begun in recent years.
- Conduct targeted training activities to upskill the program delivery workforce on specific focus areas, such as HVAC, building controls and automation, and building envelope.
- Monitor and help mitigate supply chain disruptions and inflation impacts.
- Streamline the Large Commercial and Industrial New Construction pathways, required documentation, and savings calculations.
- Sunset efforts that have failed to demonstrate the potential to generate significant cost-effective savings, including the Telecommunications Initiative and various demonstrations to reduce costs and focus on efforts with greater savings potential.
- Investigate promising new measure offerings, including gas leak detection and repair.

INNOVATING FOR FUTURE ENERGY EFFICIENCY SAVINGS FOR RHODE ISLAND CUSTOMERS: PILOTS, DEMONSTRATIONS, AND ASSESSMENTS

For 2023, Rhode Island Energy intends to continue or start five Pilots, Demonstrations, or Assessments. Rhode Island Energy will continue to update the EERMC and PUC of the progress, findings, and next steps of all Pilots, Demonstrations, and Assessments over the course of 2023 in the Quarterly Reports.

The following table outlines the objectives, planned activity, and next steps of the five Pilots, Demonstrations, or Assessments underway in 2023.

Table 4. 2023 Pilots, Demonstrations and Assessments—Residential and Commercial & Industrial.

Pilot, Demonstration, or Assessment	Objectives	Planned 2023 Activity	Next Steps
Gas Demand Response Pilot *C&I Pilot*	Target hourly peak reduction from Extended Demand Response (EDR) pilot offering, and Peak Period Gas Demand Response (PPDR) pilot offering	Determine future need for program on Aquidneck	Continue program operations for Q1 2022
Continuous Energy Improvement *C&I Demonstration*	The primary objective of the Continuous Energy Improvement (CEI) demonstration is to activate industrial and manufacturing customers through a multiplicity of interventions, to address operation and maintenance measures in the short-term, to pursue capital measures in the medium-term, and establish a culture of continuous improvement in its energy performance over the long-term	The demonstration will end early 2022	Rhode Island Energy will look to claim CEI gas savings in March of 2022
Network Lighting + HVAC Control *C&I Demonstration*	Recruit up to four customers for system installation and integration. What are the energy and non-energy benefits of projects, pain points in commissioning the projects, and knowledge gaps that may hinder fully realizing expected HVAC savings?	Begin M&V and integration activity at selected customer facilities	Finalize M&V plan, begin pre-metering period
Kitchen Exhaust Controls *C&I Demonstration*	Recruit up to five customers to install electrostatic filtration and energy recovery. What are the realized energy savings for each technology? What barriers exist for measure adoption?	Although included in the plan, this demonstration has concluded due to lack of product availability and eligible customers	N/A
Gas Heat Pumps *C&I and Residential Demonstration*	Validate performance of newer absorption gas heat pumps for C&I	Will close out commercial demonstration due to custom fit. Due to cut of M&V budget for residential demonstration, will also close residential	N/A

Appendix A:

Energy Efficiency Program Case Studies

Rhode Island Energy™
a PPL company

Reducing energy usage and annual spending at Rhode Island multifamily property

Villa Anginette Apartments

The Rhode Island Energy Multifamily Program offers significant incentives to property owners for comprehensive efficiency upgrades. This project for Villa Anginette Apartments demonstrates how the program can cost-effectively take a holistic approach to a multifamily building to reduce energy use and realize substantial cost savings.

Villa Anginette Apartments partnered with Rhode Island Energy to reduce energy usage and save money at their multifamily facility.

The Project

The owner of Villa Anginette Apartments reached out to the Rhode Island Energy Multifamily Program for a no cost energy assessment of the 13-unit building. The energy audit found that the boiler room contained an older gas-fired atmospheric boiler that was still in use for heating. The system pumps were original to the building, and there was a considerable amount of uninsulated pipe running through unconditioned spaces.

The assessment also found opportunities to improve the performance of the building envelope, especially in the attic and basement.

The Solution

The owner elected to fully capitalize on the Multifamily Program offerings by implementing all of the assessment's recommendations:

- Replacing the existing boiler with a high-efficiency (98%) condensing unit
- Upgrading the system pumps to high-efficiency, electronically commutated motors (ECMs) with variable-frequency drives (VFDs) for speed control
- Installing more than 400 linear feet of heating and domestic hot water pipe insulation
- Air sealing in the attic and basement chases, top plates, plumbing and wiring penetration and other typical leakage points in the building
- Adding R-38 blown-cellulose insulation to the open attic space, including soffit baffles
- Installing weatherstripping and damming material around the attic hatch, as well as installing a fiberglass batt to the basement sill

Villa Anginette Apartments worked with Rhode Island Energy to install over 400 linear feet of heating and domestic hot water pipe insulation.

Rhode Island Energy™
a PPL company

Rhode Island multifamily property sees significant energy and cost savings

West Warwick Housing Authority

The Rhode Island Energy Multifamily Program offers significant incentives to property owners for comprehensive efficiency upgrades. This project for the West Warwick Housing Authority demonstrates how the program can cost-effectively take a holistic approach to a multifamily building to reduce energy use and realize substantial cost savings.

West Warwick Housing Authority partnered with Rhode Island Energy to reduce energy usage and save money at their multifamily facility.

The Project

The West Warwick Housing Authority reached out to the Rhode Island Energy Multifamily Program for a no cost energy assessment of its Clyde Tower 124-unit building. The energy audit found that the boiler room contained older gas-fired atmospheric boilers that were still in use for space heating and domestic hot water heating. The system pumps were original to the building, as were the in-apartment thermostats.

The assessment also found opportunities to reduce the high electric usage while providing hot water to supplement the heating system.

The Solution

The authority elected to fully capitalize on the Multifamily Program offerings by implementing all of the assessment's recommendations:

- Replace the existing heating and water heating boilers with high-efficiency (96–97%) condensing units.
- Upgrade the system pumps to high-efficiency, electronically commutated motors (ECMs) with variable-frequency drives (VFDs) for speed control.
- Upgrade the domestic hot water recirculation pumps to high-efficiency electronically commutated motors (ECMs) with variable-frequency drives (VFDs) for speed control.
- Replace the existing manual thermostats with programmable wall-mounted units.
- Add a micro-combined heat and power unit to generate electricity on-site while also providing hot water for space heating and domestic use.

West Warwick Housing Authority worked with Rhode Island Energy to add a micro–combined heat and power unit to generate electricity on site, while providing hot water for space heating and domestic use.

The “Pretty Good House”: Zero Energy Ready Renovation

Project Background

The objective of the project, from an energy perspective, was to achieve Net Zero energy performance, without adding significantly to the cost of construction or using unusual building practices and materials.

Learn more about the Pretty Good House concept at: www.prettygoodhouse.org.

Location: Providence, RI
Architect: Chris Royer
Website: www.royerarchitects.com
Contractor: Halmac Construction
Website: www.halmacri.com

Project Highlights

Simple Compact Design

- The 2,000 ft^2 home’s design minimizes the area of thermal envelope in relation to interior living space

Reduced Carbon Inputs

- No structural steel was used, and the use of concrete was minimized
- Over 50% of the foundation is from the old structure
- 8” thick concrete foundation walls used instead of 10” thick
- No basement or crawlspace slabs

Tight Building Envelope

- Final blower door test was 0.39 ACH50
- Minimized unnecessary holes and gaps in the thermal envelope and sealed all required penetrations

Solar Ready

- The south roof is ready for the installation of photovoltaic solar pane

Pretty Good Insulation

- Roughly followed the 10-20-40-60 rule of thumb for cold climates
- Minimized thermal bridging of insulation
- Insulation is primarily dense pack cellulose in the cavity with 1” Zip R exterior sheathing

Electric HVAC and Domestic Hot Water

- 2.5 tons ducted Mitsubishi mini split heat pump
- Panasonic FV-10EV2 100 cfm ERV – to ensure fresh air while minimizing energy loss
- Electric heat-pump domestic hot water heater

Residential New Construction (RNC) Program Achievements

- HERS Index: 44
- Total RNC Program Incentive: $5,475
- Program Achievement Level: Tier 3
- 49.1% savings over program baseline
- Savings: 9,039 annual kWh

Questions?
Call: 855-343-0105

Appendix B:

2022 Energy Efficiency Vendors

2022 ENERGY EFFICIENCY VENDORS

The following list includes contractors and subcontractors performing work directly for Rhode Island Energy Energy Efficiency programs in 2022 that were counted in the full-time equivalent analysis and additional companies who assisted customers to secure equipment rebates, for example through the new construction, high efficiency HVAC, and upstream lighting programs. The list also includes the Community Action Program agencies and their subcontractors involved with the delivery of the income eligible program, whether under Rhode Island Energy funding or WAP/LIHEAP funding.

The list is organized by state, with companies then listed alphabetically. Rhode Island firms are listed first. Of the 980 companies, agencies, contractors and sub-contractors listed here, 73% are either headquartered in Rhode Island or have a physical presence in Rhode Island. 16% are Massachusetts-based companies with no physical presence in Rhode Island. 3% of companies are Connecticut firms. The remaining firms have offices in the other New England states or outside of New England.

VENDOR	CITY	STATE
166 Valley Street LLC	Providence	RI
210 Plumbing	Newport	RI
A & H Duffy Polishing & Finishing	Cranston	RI
A Good Plumber	Hope	RI
A Perry Plumbing & Heating	Coventry	RI
A&M Compressed Air Products, Inc.	Providence	RI
A/Z Corp	Cranston	RI
Aaron Simpson	Lincoln	RI
Absolute Haitian	Lincoln	RI
Aceto Plumbing LLC	Cranston	RI
ACR Construction & Management Corp	North Providence	RI
Adam Cudworth	Coventry	RI
Adams Plumbing & Heating	West Warwick	RI
Advanced Comfort Systems Inc	North Smithfield	RI
Aegis Energy Services LLC	Providence	RI
AEP Carpentry	Hope	RI
Aero Mechanical Inc	Johnston	RI
Affordable Heating & AC	N Providence	RI
Affordable Plumbing Solutions	Coventry	RI
Air Conditioning Services Of New England	Cranston	RI
Air Energy Group	Warwick	RI
Air Flow Inc	Coventry	RI
Air Masters HVAC Services	Warwick	RI
Air Quality LLC	Cranston	RI
Air Synergy LLC	Providence	RI
Air Tech Pro HVAC	Warwick	RI
Ak Mechanical	Coventry	RI
Al Asher	Portsmouth	RI
Al Danti & Son Plumbing & Heat	Pascoag	RI
Al Jerauld	N Providence	RI
Al Swajian & Son Plumbing & Heating	Cranston	RI
Alex Rubio Plumbing	Providence	RI
Alexandra Knott	Pawtucket	RI
Alga Plastics	Cranston	RI
All Phase Heating & Cooling	Coventry	RI
All Star Insulation	Providence	RI
Allied Group LLC	Cranston	RI
Almeida Plumbing & Heating	Greenville	RI
Alpha Mechanical	E Providence	RI
Am Electric LLC	Scituate	RI
Amada	Woonsocket	RI
American Home Heating And AC	Cranston	RI
American Plumbing & Mechanical	West Warwick	RI
American Pride Plumbing & Heating LLC	Warwick	RI
Amgen	West Greenwich	RI
Anchor Insulation	Pawtucket	RI
Anchor Plumbing & Heating	Providence	RI
Andrade & Co LLC	N Providence	RI
Anne The Plumber	Woonsocket	RI
A-Plumbing & Heating	E Providence	RI
Apuzzo Plumbing & Heating	N Scituate	RI
Aquidneck Services	Portsmouth	RI
Ar Heating & Cooling Inc	Cranston	RI
Arctic Air HVAC/R	Johnston	RI
Arden Engineering	Providence	RI
Arema HVAC	Greenville	RI
Armor Insulation	Cumberland	RI
Arnold Lumber Co	West Kingston	RI
Arthur W Adler	Bristol	RI
Ata Ur Rehman Siddiqui	East Greenwich	RI
Aten Energy	Pawtucket	RI
Atlantic Coast Creations Ltd	Providence	RI
Atlantic Compressor & Vacuum Inc.	West Warwick	RI
Atlantic Control Systems Inc	Boston	RI
Atlantic P & H Supply	Coventry	RI
Atlantic Power Services Inc	Pawtucket	RI
Atlantis Comfort Systems	West Warwick	RI
Atlascopco	North Kingstown	RI
Autiello Plumbing & Heating	Cranston	RI
Automated Temperature Controls	Cranston	RI
Automatic Heating Equipment	Providence	RI
Automatic Temperature Contols Inc	Narragansett	RI
AZ Corporation	Hopkinton	RI
A-Z Home Repair	Johnston	RI
B & B Consumers Nat Gas Serv	Woonsocket	RI
B&W Electrical Contractor	Forestdale	RI
B. Lachapelle Home Improvements LLC	Lincoln	RI
Barbara Jones	Warwick	RI
Bard Plumbing & Heating	Warwick	RI
Barlow Heating LLC	Warwick	RI
Barrett Plumbing & Heating Inc	West Greenwich	RI
Barrington Plumbing And Heating Inc	Barrington	RI
Baseline Plumbing & Heating In	Greenville	RI
Baum Energy	Warren	RI
Beaver River Heating&Cooling	Wyoming	RI
Benchmark Group Inc	Westerly	RI
Berard Heating & HVAC	Warwick	RI
Berkeley Business Center	Comberland	RI
Big Shine Energy	Lincoln	RI
Bileau HVAC	Woonsocket	RI
Bill Kowaleski	Charlestown	RI

Bill's Direct Plumbing & Heating	Bristol	RI
Bill's Heating Service Inc	Warwick	RI
Blackstone Valley Community Action	Pawtucket	RI
Bladimir Rodriguez	Cranston	RI
Blueprint Construction Group	N Providence	RI
Bmb Services LLC	E Greenwich	RI
Bob Sequeira	West Warwick	RI
Boss Heating & Cooling Inc	Charlestown	RI
Boucher HVAC/R Inc	Wakefield	RI
Boulevard Plumbing & Heating	Portsmouth	RI
Bousquet Oil	Woonsocket	RI
Bradford Soap	West Warwick	RI
Branch River Plastics Inc	Smithfield	RI
Brandon Schiano	Cranston	RI
Brian H Gibb	Westerly	RI
Brian Mellor	Warren	RI
Brian's Heating Concepts Inc	Tiverton	RI
Brothers Jj Service	Providence	RI
Bsm Pump Corporation	North Kingstown	RI
Buckey Ford	Pawtucket	RI
Buckley Heating & Cooling	Middletown	RI
Bullard Abrasives Inc	Lincoln	RI
Burns & Mcdonnell	North Kingstown	RI
Burnscold Heating And Air Conditioning	West Warwick	RI
Butler And Sons Plumbing And Heating	Cranston	RI
Butler Prop Serv Plumbing & Heating Svc	Providence	RI
C & D Mechanical	Cranston	RI
C & K Electric Co. Inc	Providence	RI
C. Caswell Plumbing	Jamestown	RI
C.J. Nemes Inc. Plumbing & Ht	Woonsocket	RI
Cal Supply Co, Inc	Burrillville	RI
Calson Corporation	Johnston	RI
Calyx	Lincoln	RI
Cam HVAC & Construction Inc	Smithfield	RI
Campbell Plumbing LLC	Middletown	RI
Cap Of Providence	Providence	RI
Capitol Plumbing Company	Cumberland	RI
Capwell Heating And Air	Hope Valley	RI
Carbone Plumbing Heating And Air	Cranston	RI
Carjon A/C & Heating Inc	Smithfield	RI
Carl Benevides General Contractor	Bristol	RI
Carter Bros Inc	Pascoag	RI
Cassana HVAC	Johnston	RI
Cavaco Brothers Plumbing & Heating	East Providence	RI
Cd Heating Inc	Cranston	RI
Cec	Mapleville	RI
Century Heating	Smithfield	RI
Certified Energy Consultants	Warwick	RI
Charette Plumbing LLC	Richmond	RI
Charles Doherty And Steve Girard	Warwick	RI
Charles Nichols Plumbing	Warwick	RI
Chaves Services	Middletown	RI
Chevalier Electric LLC	Johnston	RI
Christopher R Lavingne	Pawtucket	RI
Cjc Construction	Warwick	RI
CJ's Plumbing & Heating Specialist	Smithfield	RI
Clearesult	Providence	RI
Clearly Led	Esmond	RI
Clermont Mechanical	Cranston	RI
Clover Engineering	Providence	RI
Cmags HVAC	Warwick	RI
Coastal HVAC	Wakefield	RI
Coastal Plumbing Service Inc	Wakefield	RI
Cola Plumbing & Heating Inc	North Kingstown	RI
Coldmasters	Cranston	RI
Comprehensive Community Action	Cranston	RI
Connolly And Sons Heating Services	Harmony	RI
Continental Engineering Inc	Johnston	RI
Control Systems	Cranston	RI
Controltec LLC	Warwick	RI
Coolsys Energy Solutions	Westerly	RI
Creative Plumbing & Heating In	Newport	RI
Cri LLC	Waskefield	RI
Cross Insulation	Cumberland	RI
Crown Supply Company Inc	Providence	RI
Crowne Plaza	Warwick	RI
Crystal Plumbing & Heating	Providence	RI
Ctc	Newport	RI
Cubo Construction LLC	Central Falls	RI
Cunha Construction	E Providence	RI
CV Construction	Cumberland	RI
CW Cummings Plumbing Co	Coventry	RI
D & V Mechanical Inc	Westerly	RI
D R Appliances	Cranston	RI
D&L Home Services	Warwick	RI
D.S. Plumbing	Coventry	RI
Daikin Applied	Newport	RI
Dalkia Energy Solutions	Cumberland	RI
Danico LLC	Johnston	RI
Darlington Fabrics	Westerly	RI
David Kolator	Middletown	RI
David Nguyen	Barrington	RI
David Parrillo Plumbing, Heating & Son LLC	Hope	RI
David St Angelo	Barrington	RI
David W Bradley Plumbing & Heating	E Providence	RI
Deans Fabrication	Warwick	RI
Delmonico Enterprises Plumbing	Cranston	RI
Delta Mechanical Contractors	Pawtucket	RI
Delta Pump Group	Providence	RI
Dennis Group	North Kingstown	RI
Dennis Pratt Plumbing & Heatin	Harrisville	RI
Deslandes Construction	Warwick	RI
Desmarais Plumbing & Heating Inc	Johnston	RI
Dhg Construction	Cranston	RI
Di Gregorio & Son Inc Plumbing And Heating	N Kingstown	RI
Dirocco Plumbing Services LLC	North Providence	RI
Divona Enterprises	Pawtucket	RI
Doering Equipment Co.	Harrisville	RI
Don Jestings And Sons LLC	Middletown	RI
Done Right	North Providence	RI
Donna R Burke	South Kingstown	RI
Donovan & Sons	Middletown	RI
Douglas Shepard	Wakefield	RI
Driver's Plumbing & Mechanical	Providence	RI
Dsc Heating & Ac	North Kingstown	RI
Dtf Construction Inc	Johnston	RI
Duffy & Shanley Inc	Providence	RI
Dumais Plumbing & Remodeling Inc	Slatersville	RI
Dupuis Oil Co	Pawtucket	RI
Durfee Hardware-Cranston	Cranston	RI
Dynamic Air Systems Inc	E Providence	RI
E And H Properties LLC	Coventry	RI
E.P.M. Plumbing	Woonsocket	RI
E.S. Builders Inc	Charlestown	RI
E2S	Providence	RI
East Bay Air Systems	Riverside	RI
East Coast Building And Remodeling	Scituate	RI
Eastbay Community Action	Riverside	RI
Eastern Elec	Cranston	RI
Eastern Industrial Automation	Pawtucket	RI

Easy Flow Plumbing	W Warwick	RI
Ecologic Insulation	Tiverton	RI
Economy Air Inc	Exeter	RI
Eddy's Weatherization	Providence	RI
Edward Barbosa Plumbing	West Warwick	RI
Edward Camara Plumbing Svc	Lincoln	RI
Edward J Smith	Warwick	RI
Edward Martino	Johnston	RI
Eip Precision Park LLC	North Kingstown	RI
Electrical Wholesalers Inc.	Tiverton	RI
Elizabeth Moloney	Providence	RI
Emanuel P Frias Construction	Lincoln	RI
Emcor Services	Pawtucket	RI
Emergency Response Plumbing Heating And Air Conditioning Inc	Warwick	RI
Emery HVAC	Mapleville	RI
Ene Systems Inc	Cumberland	RI
Energy Conservation Inc	Smithfield	RI
Energy Efficient Exteriors	Pawtucket	RI
Energy Geeks	North Smithfield	RI
Energy Machinery	North Kingstown	RI
Energy Management & Control Services	Providence	RI
Energy Management Collaborative, LLC	Warwick	RI
Energy Management Corporation	Warwick	RI
Energy One	West Warwick	RI
Energy Source	Providence	RI
Energywise Solutions	Warren	RI
Erban Plumbing	Warwick	RI
Eric Young	Barrington	RI
Eurotech Climate Systems LLC	Pawtucket	RI
Evergreen Plumbing & Heating - Warwick	Warwick	RI
Ew Energy Solutions	North Kingstown	RI
Exceptional Heating Co	Providence	RI
F&S Electric	Bristol	RI
Falcon Electric	Pawtucket	RI
Falcon Hydrolics & Boiler Serv	W Kingston	RI
Falvey Linen Supply Inc	Cranston	RI
Fellowship Plumbing And Remodeling	Pascoag	RI
Feula Plumbing & Heating	Johnston	RI
Figlozzi Plumbing & Heating	Peacedale	RI
Fiore And Sons LLC	Warwick	RI
Fire And Ice Heating And Cooling	Warwick	RI
First Response Plumbing	Newport	RI
Five Star Mechanical	Richmond	RI
Fleet Plumbing & Heating Inc	North Scituate	RI
Flex Technology Park	North Kingstown	RI
Fm Bodington Plumbing & Heating Inc	Little Compton	RI
Fox & Delomba Heating, Air Conditioning & Plumbing	Riverside	RI
Francis Heating & Hydronics	E Providence	RI
Frank Dimaio Heating LLC	Cranston	RI
Frontier Mechanical	Providence	RI
Fuji Film	North Kingstown	RI
Furnace & Duct	Providence	RI
G.M. Perron & Son Plumbing & Heating	North Smithfield	RI
Gansett Plumbing	Narragansett	RI
Gas Doctor	Providence	RI
Gas Works	Westerly	RI
Gem Air Services	Providence	RI
George C Moore Company	Westerly	RI
Gino's Plumbing And Heating	Warwick	RI
Giorgi Plumbing & Heating	North Providence	RI
Giorno Plmbg & Htng	Cranston	RI
Giovanni And Sons Construction	Westerly	RI
Gkt Refridgeration	Pawtucket	RI
Global Refrigeration	Cranston	RI
Global Tech	Central Falls	RI
Gomes Heating & Cooling	N Kingston	RI
Gotta Guy Heating And Cooling LLC	West Warwick	RI
Greenville Plumbing & Heating	Greenville	RI
Greenwich Insulation	West Greenwich	RI
Greg Blanchette	N Smithfield	RI
Grenier & Sons Plumbing & HVAC LLC	Foster	RI
Greystone Of Lincoln Inc	North Providence	RI
Gronski Plumbing & Heating	Cranston	RI
H.V. Holland Inc Heating & Ac	Jamestown	RI
Hasoba Contracting	Cranston	RI
Haven Plumbing & Heating Co In	Cranston	RI
Hawkes Plumbing & Heating Co Inc.	Fiskdale	RI
Hc Group LLC	Providence	RI
Heavenly Homes	Cranston	RI
Hebert Design Build	W Kingston	RI
Hi Tech Profiles Inc	Hopkinton	RI
High Low Properties LLC	Riverside	RI
High-Tech Engineering Inc	Hudson	RI
Hm Lei Construction LLC	Woonsocket	RI
Holgate Plumbing And Heating	Tiverton	RI
Hope Global Company	Cumberland	RI
Houle Plumbing & Heating	Greene	RI
Hsp Construction LLC	West Greenwich	RI
Hussmann Corporation	Barrington	RI
Hvac Inc	Cumberland	RI
Hydro-Earth	Cranston	RI
Ianniello Plumbing And Heating	Cranston	RI
Iasimone Plumbing & Heating	N Providence	RI
Industrial Burner Sv	Providence	RI
Innovative Energy And Design	Cumberland	RI
Inovis Energy Inc	Woonsocket	RI
Installed Measures	Coventry	RI
Iroquoian Plumbing & Heating S	Providence	RI
Island Solar Plumbing And Heating	Jamestown	RI
Iwire LLC	Barrington	RI
Izzo	Warwick	RI
J & J Plumbing & Heating Inc	Johnston	RI
J Abrahamson	Greenville	RI
J And B Construction	Providence	RI
J Dunford Plumbing & Heating	W Greenwcih	RI
J Gallant Enterprises LLC	Chepachet	RI
J Joyce Plumbing & Heating	Warwick	RI
J&L Heating And Air Conditioning	Pawtucket	RI
Jacobson Energy Research LLC	Providence	RI
Jake Lavoie Plumbing And Heating LLC	Charlestown	RI
James Cunningham Plumbing	E Providence	RI
Jas Plumbing	North Providence	RI
Jason Truppi Plumbing	N Providence	RI
Jay Packaging	Warwick	RI
Jb Construction	Providence	RI
Jeffrey Berard Plumbing & Mechanical	Warwick	RI
Jeo HVAC LLC	Smithfield	RI
Jg Home Remodeling	Riverside	RI
Jid Heating LLC	Cranston	RI
Jkl Engineering Co. Inc	Providence	RI
Jlj Enterprises Dba Jenkins Heating	Smithfield	RI
Jmac Plumbing & Heating	Warwick	RI
Jmb Plumbing LLC	West Warwick	RI
Jmc Construction	Providence	RI
Jmhvac	Pawtucket	RI
Jo Plumbing	Warwick	RI
Joaquin HVAC & Ref Inc	Portsmouth	RI
Joe Constancia	Bristol	RI
Joel Molina Heating And Plumbing	Cumberland	RI
Joe's Plumbing & Heating	Warwick	RI

John E Allen Plumbing & Heating	Kingston	RI
John Ekdahl	Chepachet	RI
John Fletcher	Ashaway	RI
John Nicholson Mech Contractor	N Scituate	RI
John Schweglewis Plumbing Solutions LLC	N Smithfield	RI
John Villanova	Central Falls	RI
John W Kennedy Company In	East Providence	RI
Johnnys Home Solutions LLC	Central Falls	RI
Johnny's Oil & Heating	Providence	RI
Johnson Controls	Providence	RI
Johnstone Supply - Providence	Providence	RI
Jonathan Svitil	Lincoln	RI
Jose Oliva	Johnston	RI
Joseph C Grimm Plumbing & Heating Inc	Narragansett	RI
Joseph Joyce	Warwick	RI
Joseph Mcdermott Pipeworks	Bristol	RI
Joseph Noonan	Cranston	RI
Jp Island Plumbing	Middletown	RI
Jrah LLC	Warick	RI
Jse Properties LLC	Pawtucket	RI
Jt Mechanical	Johnston	RI
Juan Villanueva	Cumberland	RI
Just Heat	Portsmouth	RI
Jwu	Cranston	RI
K&R Heating And Cooling	Lincoln	RI
Kafin Oil Company	Woonsocket	RI
Kaser Compressors Inc	Cranston	RI
Kazounis Plumbing And Heating	Hope Valley	RI
Keith Industrial Group	Ashaway	RI
Kenneth Aitchson Plumbing	Scituate	RI
Kenneth Townsend	W Warwick	RI
Kenney Manufacturing Co	Warwick	RI
Kenny Pierce	Ashaway	RI
Key Container Corporation	Pawtucket	RI
Kfs Construction Inc	Greenville	RI
Knight Plumbing & Heating	Cranston	RI
Koolco Inc	Wakefield	RI
Kwik Plumbing	Johnston	RI
L & F Plumbing LLC	Cranston	RI
L&B Remodeling	North Providence	RI
L.T. Comfort LLC	Warwick	RI
Lawrence Air Systems	Barrington	RI
Leak Free Lifestyles	Coventry	RI
Leidos Engineering	Providence	RI
Lgo Services	Providence	RI
Light And Live LLC	Providence	RI
Lighting Retrofit Services, Inc.	Providence	RI
Lightserve Corp	Warwick	RI
Limas Construction LLC	Pawtucket	RI
Litemore	Cranston	RI
Little Raven Plumbing And Heating	N Providence	RI
Lucas Milhaupt Inc	Warwick	RI
Lui Plumbing LLC	Newport	RI
Luis Ariza Plumbing & Heating	Providence	RI
Luke Beaudreault	Harrisville	RI
M. Deltufo Plumbing & Heating	E Greenwich	RI
Macari Construction LLC	N Kingstown	RI
Maggiacomo Plumbing Inc	Cranston	RI
Main Street Plumbing LLC	Pawtucket	RI
Malone Plumbing & Heating Inc	Cranston	RI
Marc G Furtado	East Providence	RI
Marcel Ms LLC	Pawtucket	RI
Marcello Demartino	Providence	RI
Mario Silva Plumbing	Bristol	RI
Mario's Reconditioned Appliance Inc	Woonsocket	RI

Mark Dewolf Plumbing & Heating	Bristol	RI
Mark K Dieterich	Naomi	RI
Mark Southworth Maintenance	Johnston	RI
Martel Plumbing & Heating	Lincoln	RI
Martin Rawnsley	N Kingstown	RI
Mastro Electric Supply Co Inc.	Providence	RI
Matt Flush LLC	Greenville	RI
Matt Lugar	Coventry	RI
Matthew K Haczynski	North Scituate	RI
Matthew Nelson	Smithfield	RI
Matt's Mechanical	Smithfield	RI
Mckee Bros Oil Corp	Cumberland	RI
Mechanical HVAC	Peace Dale	RI
Mehboob LLC	West Greenwich	RI
Melanie Aldrich And Son Inc	Warren	RI
Melco Plumbing	Lincoln	RI
Menard Plumbing LLC	Pawtucket	RI
Mendez Services	Providence	RI
Mercury Tec Inc -E Providence	E Providence	RI
Michael Barone Jr	N Providence	RI
Michael E Breton	Kingston	RI
Michael Freitas Plumbing & Mech	Pascoag	RI
Michael Glorgi	Pascoag	RI
Michael J Mendes	Providence	RI
Michael S Yuszczak	Manville	RI
Michaels Heating And Ac	Coventry	RI
Micheal Sullivan	North Kingstown	RI
Midstate Heating & Cooling	Hope Valley	RI
Miniature Casting Corpora	Cranston	RI
Mj Heating & Air Conditioning	Tiverton	RI
Mjf Plumbing And Heating	Bristol	RI
Moonworks	Woonsocket	RI
Moore Company	Westerly	RI
Morenzoni Construction LLC	Westerly	RI
Mother Earth Creations Inc	Pawtucket	RI
Motion Ct12	Lincoln	RI
Mpg Mechanical	Charlestown	RI
Mr Plumber	East Providence	RI
Mr. Rooter	Warwick	RI
Mt Giorgi & Daughters LLC	Warwick	RI
Mts Mechanical	East Providence	RI
Murdock Webbing Co	Central Falls	RI
Mutual Engineering	Warwick	RI
N Francis Plumbing LLC	N Kingstown	RI
Narragansett Bay Commission	Providence	RI
National Efficiency Supply	Providence	RI
National Energy Supply (Nes	Providence	RI
National Refrigeration Inc	Warwick	RI
National Service Co	Warwick	RI
National Traffic Services	Cranston	RI
Nds Plumbing & Heating	Warren	RI
Neil Severance	Barrington	RI
Nestor Padilla After Hours Plumbing	Providence	RI
Netzero Insulation Techonolgy	Warwick	RI
New England Boiler Works	West Greenwich	RI
New England Plumbing & Heating	Foster	RI
New England Sheet Metal Inc	Cranston	RI
Newbury Insulation	Woonsocket	RI
Newport County Propane	Middletown	RI
Newport Electric Construction	Bristol	RI
Newport Plumbing & Heating	Portsmouth	RI
Nexgen Mechanical	Warwick	RI
Nexrev	Warwick	RI
Ngb Plumbing & Heating Ac	Pawtucket	RI
Nicholas Schavone	Saunderstown	RI

Nick Bermudez	Pawtucket	RI
Nick Iacobbo	Providence	RI
Nicolas Bermudez	Pawtucket	RI
Nightingale Plumbing & Heating	Providence	RI
Nivaldo Rocha	Pawtucket	RI
Nordson Efd LLC	East Providence	RI
Northern Energy Services Inc.	Providence	RI
Oberon Initiatives Inc	Woonsocket	RI
Ocean State Group LLC	Providence	RI
Okonite Company	Cumberland	RI
Oliveira Plumbing & Heating LLC	Smithfield	RI
Optima Technology	Warwick	RI
Pagnozzi Plumbing LLC	Smithfield	RI
Pajan Services Inc.	Pawtucket	RI
Parameter	Westerly	RI
Paul Dechichio	Providence	RI
Paul Fulton	Providence	RI
Paul G Andrade Contractor	Providence	RI
Paul Musco	Cranston	RI
Paul Truppi Heating	Tiverton	RI
Peak Plumbing And Heating LLC	Cumberland	RI
Pelletier & Son Plumbing	North Kingstown	RI
Perez Plumbing Heating & Air Conditioning	Cranston	RI
Peter Bibby Ponagansett LLC	Providence	RI
Petrarca Plumbing & Heating	Warwick	RI
Petro Home Services	East Greenwich	RI
Phillips Plumbing & Mechanical	Cranston	RI
Phil's Heating & Ac	Westerly	RI
Pickles Plumbing And Heating LLC	Mapleville	RI
Pinnacle Plumbing & Heating	Smithfield	RI
Pipefixers Plumbing	Coventry	RI
Plumb Perfection	Johnston	RI
Plumb Pro LLC	Cranston	RI
Plumbing & Heating Solutions LLC	East Greenwich	RI
Plumbworks	N Smithfield	RI
Polaris Plumbing And Heating Inc	North Kingstown	RI
Pono Plumbing & Heating	Providence	RI
Positive Flow Plumbing Inc	Bristol	RI
Potvin Plumbing & Heating	Warwick	RI
Power Source Electric	W Greenwich	RI
Prakash Hoskere Nagaraj	Cumberland	RI
Preferred Heac Inc	Providence	RI
Premair HVAC	Warwick	RI
Premier Heating & Air	Coventry	RI
Pride HVAC Services	Portsmouth	RI
Prime Heating	Cranston	RI
Priority Plumbing & Heating	Warwick	RI
Prism Consulting Inc.	L Compton	RI
Pro Maintenance LLC	Cranston	RI
Proplumbing Of Ri	West Warwick	RI
Prout Mechanical	Providence	RI
Providence Equity Partner	Providence	RI
Providence Mechanical Serv. Ll	Smithfield	RI
Providence Metallizing Co Inc	Providence	RI
Quality Mechanical Services Inc	Exeter	RI
Quality Renovations LLC	Smithfield	RI
Quonset Devel Corp-	North Kingstown	RI
R Distefano Heating & Cooling LLC	Warwick	RI
R.B. Queern & Co Inc	Portsmouth	RI
R.C Plumbing And Heating	Smithfield	RI
R.E. Coogan Heating Inc	Warwick	RI
R.E.M. Mechanical LLC	North Kingstown	RI
Rambone & Sprague Oil Service Inc	N Scituate	RI
Randall Heating	Warwick	RI
Randall Jackvony	Cranston	RI
Ray Ciampanelli Plumbing & Heating Co	Peace Dale	RI
Raymond Degnan	N Providence	RI
Raz Heating & Plumbing Services	Foster	RI
Rcf Plumbing	N Providence	RI
Reddy Piping Concepts	Cranston	RI
Regan Heating And Air Conditioning	Providence	RI
Regine Printing	Providence	RI
Reichert And Sons Fuel Oil Inc	Chepachet	RI
Remodeling Right Inc	Portsmouth	RI
Remy Plumbing & Heating	Warren	RI
Renaissance Sheet Metal LLC	N Kingstown	RI
Repair Services	Providence	RI
Resendes Heating Service LLC	Coventry	RI
Resh Inc	Woonsocket	RI
Residential Heating	Riverside	RI
Restivos Heating & A/C	Johnston	RI
Rf Plumbing & Heating	Johnston	RI
Rg Electrical	Bristol	RI
Rhode Island Infrastructure	Providence	RI
Rhode Island Water Heaters & Plumbing Services LLC	Pawtucket	RI
RI Insulation	Hope	RI
RI Pipe Guys	Warwick	RI
RI Sheet Metal LLC	East Providence	RI
Richburns Plumbing	Portsmouth	RI
Ridco Casting Co	Pawtucket	RI
Rise Engineering	Cranston	RI
Rmd Plumbing And Heating	Portsmouth	RI
Robert Azar	Providence	RI
Robert Larisa	Barrington	RI
Robert S Brown	Woonsocket	RI
Rodriguez Plumbing & Heating	Provincetown	RI
Roi Energy Investments LLC	Warwick	RI
Romco	Warwick	RI
Ronald Hodges	Greenville	RI
Rooter Man Plumbers	Johnston	RI
Rsm	North Providence	RI
Rss Installations	Coventry	RI
Rst Mechanical HVAC	Coventry	RI
Rumford Mechanical	Rumford	RI
S.B. Carbone	Cranston	RI
Sakonnet Plumbing & Heating	Little Compton	RI
Sal Manzi & Son Plumbing & Heating Inc	Cranston	RI
Salve Regina	Newport	RI
Sam Ponte Heating & Ac LLC	Hope Valley	RI
Santoro Oil	Providence	RI
Sas Brothers Inc.	Johnston	RI
Savard Oil Co Inc	E Providence	RI
Sean Welch	Warwick	RI
Sensible Heating & Air Conditioning LLC	Hope Valley	RI
Sharyn Lawler	Warwick	RI
Shawn Duguay	Johnston	RI
Shepard Services	Cumberland	RI
Sherman Plumbing	Rumford	RI
Siemens Mobility Inc	North Kingstown	RI
Sine Plumbing & Heating	E Providence	RI
Skawski HVAC	Hope	RI
Slate & Copper Services I	Portsmouth	RI
Small's Plumbing Inc	Woonsocket	RI
Smithco Oil Service	Wakefield	RI
Smithfield Plumbing & Htng Supply	Greenville	RI
Sol Power Solar, LLC	Hopkinton	RI
Sona Energy Solutions LLC	Warwick	RI
Sonner Plumbing And Heating	Cranston	RI
Sosa & Son Corp A/C Heating, Plumbing Refrigeration	Woonsocket	RI
South County Energy	Westerly	RI

Spain Environmental Inc	Warwick	RI
Spencer's Plumbing	East Greenwich	RI
Sta Cool	Cranston	RI
Stacey Tillinghast	Providence	RI
Standish Brothers HVAC	Coventry	RI
State Of Rhode Island	Providence	RI
Statewide Plumbing & Heating	Cranston	RI
Stedman & Kazounis -Charlestow	Charlestown	RI
Stephen O Scott Plumbing & Heating	Ashaway	RI
Steve Allen Plumbing Service LLC	Wakefield	RI
Steven Atehortua	Providence	RI
Sunshine Fuels & Energy Services Inc	Bristol	RI
Superior Comfort Inc	Bristol	RI
Superior Insulation	Narragansett	RI
Superior Led Light, LLC	East Providence	RI
Superior Plumbing & Heating Co	Cranston	RI
Supply Ne Peacedale	Peacedale	RI
Supply New England - Warwick	Warwick	RI
Susan Cavanna	Westerly	RI
Sylvester Sheet Metal Inc	West Warwick	RI
T&T Plumbing & Heating Inc	Westerly	RI
T. Miozzi	North Kingstown	RI
T.D. Plumbing Inc	East Providence	RI
Ta Gardiner Plumbing & Heating	Bristol	RI
Taco Inc	Cranston	RI
Tanios Bouramia	Warwick	RI
Taylor Chen	Cranston	RI
Teknor Apex Company	Pawtucket	RI
Templar Plumbing	Lincoln	RI
Temptec Mechanical	Providence	RI
The Beadery	Hopkinton	RI
The Drain Pro	Providence	RI
The Hope Group	East Providence	RI
The Moore Company	Westerly	RI
The Plumber Company	Johnston	RI
The Wilkinson Companies	Wakefield	RI
Thermal Energy	Cranston	RI
Therrien Mechanical Systems Li	Lincoln	RI
Thielsch Engineering Inc	Billerica	RI
Thomas Gentz	Charlestown	RI
Thompson Properties LLC	Barrington	RI
Thumbs Up Plumbing	Tiverton	RI
Timothy Fontaine	North Providence	RI
Timothy Gordon	Charlestown	RI
Tom Peters Plumbing & Heating	Portsmouth	RI
Tom Whitaker	Newport	RI
Tomas HVAC	Smithfield	RI
Tom's Plumbing LLC	Manville	RI
Tony Refrigeration LLC	Providence	RI
Tops Lighting (Electric Supply Company)	Providence	RI
Toray	North Kingstown	RI
Total Comfort Heating & Cooling	Cumberland	RI
Total Construction Services In	Providence	RI
Trademark Remodeling LLC	Pawtucket	RI
Tradeposted	Newport	RI
Trane	Warwick	RI
Tri-Country Community Action	Johnston	RI
True Manufacturing Co Inc	Warwick	RI
Tuma Insulations	Warwick	RI
U.G. Nason's Inc	Middletown	RI
Ultimate Plumbing	Warwick	RI
Universal HVAC LLC	North Providence	RI
Uzzi Plumbing & Heating	Westerly	RI
Valcourt Heating Inc	Tiverton	RI
Valley Heating & Cooling	Hope Valley	RI
Valley Plumbing & Heating	Cumberland	RI
Valley Repair Inc	Wyoming	RI
Vaughn Oil Co	Smithfield	RI
Verdek Green Technologies	Cranston	RI
Vermont Energy Investment Corporation	Greenville	RI
Vicentes Pawtucket Inc_Custom_Nite Covers	Pawtucket	RI
Vicmir And Sons Inc	Riverside	RI
Village At Waterman Lake	Greenville	RI
Vincentes Pawtucket Inc	Pawtucket	RI
Vision Energy Solutions	Providence	RI
Vivona Plumbing & Heating Inc	Portsmouth	RI
W R Cobb Company	East Providence	RI
Wade Hawkins	Chepachet	RI
Wagner Plumbing Services	E Providence	RI
Wakefield Heating Service	S Kingston	RI
Wakefield Plumbing LLC	Middletown	RI
Watermark Plumbing LLC	Cranston	RI
Waterplace I Condominium	Providence	RI
Weathertek Insulation	Greene	RI
Wesco Oil Company	Smithfield	RI
Westbay Community Action	Warwick	RI
Wickford App & Lghtng	Pawtucket	RI
Wilkinson Plumbing & Heating LLC	Hopevalley	RI
William J Riley Plumbing & Heating	Warwick	RI
William N Harris HVAC Solutions	Barrington	RI
William Rocchio	Coventry	RI
Women & Infants Hosp	Providence	RI
Wood's Heating Service	East Providence	RI
Wright Comfort Solutions Inc	Coventry	RI
Wyman And Sons Electric	East Greenwich	RI
Wyoming Hardware	Wyoming	RI
Zach Bourassa Heating & Cooling	Lincoln	RI
Zanella Plumbing & Heating	Westerly	RI
Zawadski Plumbing	Warwick	RI
Zeno Controls, LLC	Coventry	RI
Zompa Plumbing & Heating	Warren	RI
Progasket Solutions	Van Buren	AR
Association Of Energy Services	Phoenix	AZ
Cohen Ventures	Oakland	CA
Cprime Inc	San Mateo	CA
Crm Orbit Inc	San Francisco	CA
Hv Industries Inc	Garden Grove	CA
Nuvve Holding Corporation	San Diego	CA
Phoenix Energy	Irvine	CA
Simple Energy Inc	Miraloma	CA
Voltus Inc	San Francisco	CA
E Source Companies LLC	Boulder	CO
Ontech Smart Services	Englewood	CO
Acme Plumbing & Mech	North Stonington	CT
Adam Lambert	Lisbon	CT
Al Carmona	Norwalk	CT
Anchor Installation	Norwich	CT
Capitol Light	Hartford	CT
Ceil Plumbing & Heating	Pawcatuck	CT
CMC Energy Services Inc	Wallingford	CT
Connecticut Temperature Controls LLC	Cromwell	CT
Ct Temp Controls	Cormwell	CT
Ddlc Energy	New London	CT
Duncklee Inc	Stonington	CT
Dylan Larue HVAC Services	Killingly	CT
Dynamic Building & Energy (Formerly Uplands Construction Group)	N. Stonington	CT
Efficient By Design	N Grosvenordale	CT
Harrington Plumbing And Heating	Pawcatuck	CT
Jay's Sheet Metal	Ledyard	CT
Jeff Peterson	Danielson	CT

Jeffrey Strom Plumbing	Wethersfield	CT
Joseph Romano	Stamford	CT
Kk Insulation Inc	North Haven	CT
Lantern Energy	Norwich	CT
Michael Giuffre	Moosup	CT
Mike Tramontano	Danielson	CT
Mystic Plumbing And Heating	Mystic	CT
Sam Bliven P&H Inc	Mystic	CT
Sharpco Inc	North Grosvenordale	CT
Simmons HVAC	Pawcatuck	CT
South Shore Heating & Cooling, Inc	Pawcatuck	CT
Violette Mechanical	Ellington	CT
Wattsaver Lighting Products	East Hartford	CT
Williams & Associates	N Stonington	CT
Wjr Plumbing And Heating LLC	Voluntown	CT
ACEEE	Washington	DC
Cadeo Group LLC	Washington	DC
Energy Solutions Center Inc	Washington	DC
Icf Resources LLC	Wilmington	DE
Ace Hardware	Oak Brook	IL
Hebron Stores	Aurora	IL
Hh Associates Us Inc	Chicago	IL
Innerworkings Inc	Chicago	IL
Roto-Rooter	Chicago	IL
W.W. Grainger, Inc.	Lake Forest	IL
Ingram's Water & Air Equipment	Paducah	KY
3 D Lighting	Franklin	MA
5C Energy	Attleboro	MA
Action Inc	Gloucester	MA
Advanced Energy Services	Hopedale	MA
Advanced Plumbing & Heating	Seekonk	MA
Ags HVAC Services LLC	Westport	MA
Air Tight Insulators	New Bedford	MA
Aks Electrical And Plumbing	Seekonk	MA
Aldo's HVAC LLC	Medford	MA
Alternative Weatherization	Fall River	MA
American Plant Maintenance LLC	Woburn	MA
Andelman And Lelek Engineering Inc	Norwood	MA
Anthony Vieira Heating And Air	North Attleboro	MA
A-Plus Plumbing	Rehoboth	MA
Apm	Worurn	MA
Apollo Lighting & Supply	Holbrook	MA
Arca Recycling Inc	Franklin	MA
Arsenault Plumbing	Dorchester	MA
Aspen Aerogels, Inc	Northborough	MA
Atlantic Electrical Distributors	Shrewsbury	MA
Attention To Detail Plumbing & Heating LLC	Westport	MA
Axion Specialty	Foxborough	MA
B & E Mechanical	Blackstone	MA
B & L Ductless	Swansea	MA
B2Q Associates Inc	Andover	MA
Baylies Insulation	Fall River	MA
Baystate Energy Reduction	Norwood	MA
Beacon Mechanical Services LLC	Stoughton	MA
Belmont Marketplace Inc	Wakefield	MA
Bj's Wholesale Club Inc	Marlborough	MA
Bluemetal An Insight Comp	Watertown	MA
Boston Showcase Co	Newton Highlands	MA
Brian Swett	Boston	MA
Briggs Mechanical	N Attleboro	MA
Bruin Corp	North Attleboro	MA
Building Science & Construction	Braintree	MA
Bulbs.Com	Worcester	MA
C&C Connections	Taunton	MA
C2S Energy	New Bedford	MA

Cadmus Group LLC	Boston	MA
Caliber Building And Remodeling	Sandwich	MA
Camara's Heating & Air	Westport	MA
Cma Heating & Air	North Dartmouth	MA
Coastal Energy Services	Swansea	MA
Columbus Energies Inc	Swansea	MA
Commonwealth Electrical	Worcester	MA
Complete Energy Services	Raynham	MA
Complete Recycling Solutions LLC	Fall River	MA
Concord Electric Supply	Brockton	MA
Consortium For Energy Efficiency Inc	Middleton	MA
Cotti-Johnson HVAC Inc	Taunton	MA
D.C. Plumbing Co	Westport	MA
Dave Kutty Josiah Forcier	Fall River	MA
David Boucher General Contr	Marblehead	MA
David M Clay Plumbing & Heating	Leicester	MA
Diamond HVAC	Westport	MA
Demand Management Institute	Needham	MA
Dube's Plumbing	Blackstone	MA
East Bay Plumbing & Heating	Fall River	MA
Economize Plumbing & Heating	Taunton	MA
Efficiency Forward Inc	Medford	MA
Efficient Buildings	Bridgewater	MA
Electric Supply Center	Burlington	MA
Elite Energy Services	Fall River	MA
Elite Heating & Air Conditioning	Swansea	MA
Enel X North America Inc	Boston	MA
Energiwise Inc	Sutton	MA
Energy Efficiency Group Inc	Norwood	MA
Energy Federation Inc	Westborough	MA
Energy Monster	Worcester	MA
Expandable Sound	East Freetown	MA
F&J Ductless	Falmouth	MA
Flm Plumbing & Heating	Seekonk	MA
Fred Williams Inc	Weymouth	MA
Fuseideas LLC	Winchester	MA
Gaia Temperature Controls	Blackstone	MA
Gervais Mechanical Services LLC	Auburn	MA
Graybar Electric Co.	Westwood	MA
Homans Associates	Wilmington	MA
Homeserve	Woburn	MA
Independent Electric Supply	Somerville	MA
Indresano Energy Company	Wellesley Hills	MA
Insulate 2 Save	Fall River	MA
Ion Lighting Distribution Inc.	West Springfield	MA
Ironman Heating & Cooling	Swansea	MA
J & L Heating And Air	Plainville	MA
J Norman Labrie Plumbing & Heating	Rehoboth	MA
J Rebello Mech Cont Co	Somerset	MA
James R Paige Plumbing & Heati	Brockton	MA
Jay Sheldons Heating	Seekonk	MA
Keith Berard	Rochdale	MA
Kevin Campot Plumbing & Heating	Norton	MA
Kp Sullivan Heating LLC	Blackstone	MA
Kurtis A Paterson Plumbing And Heating	Blackstone	MA
L.S. Heating & Cooling	Seekonk	MA
Liquid Plumbing	Westford	MA
Luis Marin Inc Dba Infinitive Solutions	West Yarmouth	MA
M Sardinha & Sons Plmb & Heating	Fall River	MA
M.C Services & Dumpsters	Seekonk	MA
Machado Plumbing + Heating	Dighton	MA
Mark Cordery HVAC	Berkley	MA
Mazzarella Mechanical	Seabrook	MA
Meadows Plumbing & Heating	Malden	MA
N.E Building And Restoration LLC	North Attleboro	MA

Nesco (Needham Electric Supply)	Canton	MA
New England Energy Concepts	North Dighton	MA
Northeast Electrical Distributors(Needco)	Brockton	MA
Northeast Energy Efficiency Partner	Lexington	MA
NRM	Canton	MA
Nuwave Energy Solutions LLC	Norwell	MA
Oh Burg Corporation	Stoughton	MA
Oracle America Inc	Cambridge	MA
Pacheco Plumbing & Heating	Fall River	MA
Peach Heat And Cool	Raynham	MA
Pipe Right Plumbing And Heating	Framingham	MA
Plumbers Supply Co - New Bdfrd	New Bedford	MA
Prince Noah Heating And Air Conditioning	Rehoboth	MA
Quality Climate Control Inc	Seekonk	MA
R & R Services	Swansea	MA
R. A. M. Heating & Cooling	Somerset	MA
R.J. Laperle Plumbing & Heating	Attleboro	MA
Rapid HVAC & Refrigeration	Seekonk	MA
Raytheon Company	Cambridge	MA
Rdm Plumbing And Heating	Berkley	MA
Rebello Weatherization Inc	Swansea	MA
Remedy X Cooling & Heating	Taunton	MA
Rethinking Power Management LLC	Boston	MA
Retrofit Insulation	Fall River	MA
Revise Energy	Haverhill	MA
Rexel Energy Solutions	Taunton	MA
Rich May Pc	Boston	MA
River Energy Consultants	Fall River	MA
Robbins Plumbing & Heating	Norton	MA
Robinson & Cole Llp	Boston	MA
Rubius Therapeutics Inc	Cambridge	MA
Secure Energy Solutions	East Longmeadow	MA
Seekonk Supply Inc	Rehoboth	MA
Simons-Fall River	Fall River	MA
Standard Electric	Wilmington	MA
Stateline Fuel & Burner Service Inc	Seekonk	MA
Steam Trap Systems	Newburyport	MA
Superior Energy Solutions	Swansea	MA
Supreme Plumbing & Heating	Swansea	MA
Synapse Energy Econ. Inc	Cambridge	MA
T & J Heating & Air Conditioni	Bellingham	MA
Taylor Heating & A/C	Attleboro	MA
Theroux Mechanical	S Attleboro	MA
Thomas Coughlin Longwood Mechanical Group	Quincy	MA
Tma Plumbing & Heating	Westport	MA
Tnz Energy Consulting Inc	Stoughton	MA
Trc Environmental Corporation	Boston	MA
Triangle Refridgeration	Fall River	MA
Triple B Plumbing Inc	Seekonk	MA
Urban Heating And Ac	Carver	MA
Utility Energy Inc	Fall River	MA
Victor Troia	N Attleboro	MA
Victory Heating & Ac Co	Bellingham	MA
Watson Works	Uxbridge	MA
Wipro LLC	Quincy	MA
World Energy	Boston	MA
Your Plumber Inc	Norton	MA
Green & Healthy Homes Initiative In	Baltimore	MD
Ipkeys Technologies LLC	Annapolis Junction	MD
F.W. Webb Company	Winslow	ME
American Moistening	Pineville	NC
Apex Analytics	Greensboro	NC
Coastal Lighting LLC	Wilmington	NC
Honeywell Safety Products Usa Inc	Charlotte	NC
Lowe's Companies Inc	Mooresville	NC
Kt&T Distributors Inc	Nashua	NH
Shamrocks Plumbing	Pelham	NH
Tbd Lighting LLC	Bedford	NH
Dodge Data & Analytics LLC	Hamilton	NJ
Energy Management Associates LLC	Northern	NJ
Shi International Corp	Somerset	NJ
The Okonite Company Inc	Ramsey	NJ
Geotab Usa Inc	Las Vegas	NV
B & H Photo & Video	New York	NY
Breathe Easy Of Cny Inc	Constantia	NY
Centrica Business Solutions Optimiz	Albany	NY
Cha Consulting Inc	Albany	NY
Customertimes Corp	New York	NY
DNV GI Energy Insights Usa Inc	New York	NY
Eastland Alarms	Harrison	NY
Energyhub Inc	Brooklyn	NY
Eric Mower And Associates Inc	Syracuse	NY
Fascaldi Plumbing & Heating-Massap	Massapequa	NY
Green Building Research I	New York	NY
Heat Watch Inc	New York	NY
Horizon Solutions LLC	Rochester	NY
Jsc New England Operating LLC	Lydonville	NY
L&S Energy Services Inc	Clifton Park	NY
Runwise Inc.	New York	NY
Seritage Growth Propertie	New York	NY
Seritage Src Finance LLC	New York	NY
Shm Capri LLC	Albany	NY
The Levy Partnership Inc	New York	NY
Leak Finder Inc	Hudson	OH
Questline Inc	Columbus	OH
Cascade Energy Inc	Portland	OR
Pontoon Solutions Inc	Pittsburgh	PA
Us Energy Solutions, Inc.	Philadelphia	PA
Engie	Houston	TX
Lopez Negrete Communications Inc	Houston	TX
Compressed Air Challenge	Alexandria	VA
Guidehouse Inc	Mclean	VA
Optimal Energy Inc	Hinesburg	VT
Veic	Winooski	VT
Vermont Energy	Winooski	VT
Northwest Energy Efficiency Council	Seattle	WA
Franklin Energy Services LLC	Port Washington	WI
Slipstream Group Inc	Madison	WI
Village True Value	Greendale	WI

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