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August 18, 2023

**VIA ELECTRONIC MAIL**

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

**RE: Docket No. 22-33-EE – 2023 Annual Energy Efficiency Plan  
2023 Quarterly Reports – Second Quarter**

Dear Ms. Massaro:

On behalf of The Narragansett Electric Company d/b/a Rhode Island Energy (the “Company”), enclosed please find the Company’s quarterly report for the second quarter of 2023 in the above-referenced docket. These reports include the quarterly results for the Company’s natural gas and electric energy efficiency programs and a summary of each program’s progress.

Thank you for your attention to this filing. If you have any questions, please contact me at 401-784-4263.

Sincerely,

A handwritten signature in blue ink, appearing to read "Andrew S. Marcaccio".

Andrew S. Marcaccio

Enclosures

cc: Docket No. 22-33-EE Service List



# Rhode Island Energy Efficiency

Second Quarter 2023 | Rhode Island Energy

August 9, 2023

## Overview

Rhode Island Energy's energy-efficiency programs continued to deliver energy savings for Rhode Island customers through the second quarter of 2023 by achieving 154,945 net lifetime MWh of electric savings (23.2% of the net lifetime goal) and 1,031,616 net lifetime MMBtu of natural gas savings (29.2% of the net lifetime goal).

- **Income Eligible Services:** Staffing and training continues to be a challenge to IES Program implementation. IES is implementing several approaches to reduce the impact of these barriers, including partnering with RI DHS to sponsor RIBA's 2023 Residential Construction Weatherization Program class, and working with the Lead Vendor, Westbay CAP, and DHS to transition existing AMP and Weatherization auditors to Whole House auditors.
- **EnergyWise:** Although the demand for Home Energy Assessments remains solid, the uptake of weatherization projects and electric savings has slowed down. In response, a targeted e-mail campaign focusing on customers who have had Home Energy Assessments but have not moved forward with weatherization projects was implemented in the early part of Q2. A limited time offer of an additional \$200 was made to customers to assist with their co-pay. Additionally, a 100% incentive for electrically heated homes was developed to be implemented in the early part of Q3. These customers make ideal candidates for upgrades to ASHP when their home is fully weatherized.
- **ENERGY STAR HVAC:** Four "Introduction to Heat Pump" trainings were held in partnership with RI Energy's Residential New Construction and Codes & Standards Programs. These are intended for a broad audience, including builders, contractors, homeowners, architects and building inspectors. They are aimed at raising general awareness of heat pump technology, understanding the importance of sizing, duct design and proper installation, and sharing best practices for
- **Large Commercial Retrofit – Community Solutions:** The results of the Q2 efforts on implementing initiatives for underserved communities was 20 new projects delivered under the Main St Program in East Providence, which included both Minority Owned and Women owned businesses.

# 2023 Program & Initiative Updates – Q2

## Residential New Construction (RNC)

The Residential New Construction (RNC) program achieved 2,093 net lifetime MWh of electric savings (15.9% of the lifetime goal) and 7,421 net lifetime MMBtu of gas savings (12.7% of the lifetime goal) through the second quarter of 2023.

### Q2 RNC Program Enrollments and Completed Units

- 173 housing units were built to RNC Program standards
  - 169 units were new construction/full gut rehab (98%)
  - 4 were renovation/rehab (2%)
  - 113 units were market rate (65%)
  - 60 were Income Eligible (35%)
  - 89 units had electric heat pumps (51%)
  - 61 units had gas heat (35%)
  - 23 units had either propane or hybrid heat pumps with propane (13%)
- 209 newly planned housing units enrolled in the RNC Program

### Q2 RNC Program Challenges

- Completed Units Lower than Pre-Pandemic
  - Construction Delays
    - New construction projects in planning and design phases in 2020 and 2021 got off to late starts due to delays with permitting, labor, material shortages, funding, etc.
    - These delays resulted in fewer completed units than anticipated in 2022 and through the first quarter of 2023
- Signs of Improvement
  - Completed units have increased since 2022
    - Q2 (Apr-Jun)
      - 2022 – 41
      - 2023 – 173
    - Q1-Q2 (Jan-Jun)
      - 2022 – 118
      - 2023 - 201
- 2023-2024 Pipeline of Completing Units

- In 2022 and 2023 the RNC program team enrolled a significant number of new projects in early planning and design into the program, including 873 in 2022, and 381 so far in 2023
  - The pipeline of projects to support in 2023 and 2024 is large
  - Many of these projects are multifamily affordable housing
  - Over 200 units are seeking Zero Energy or Passive House certification
- The RNC Program has continued to provide training and perform inspections on projects currently under construction and is forecasted to exceed the number of completed units compared to 2022

## **Q2 RNC Program Zero Energy Project Highlights**

- **Zero Energy Homes Pipeline**
  - The RNC Program Vendor continued to provide technical support for Zero Energy homes across the state, including 194 seeking Passive House certification and 7 seeking DOE Zero Energy Ready certification
- **Bourne Mill Phase 3, Tiverton**
  - Four story building with 59 units of affordable housing
  - All electric (fossil fuel-free), with solar photovoltaic array and electric vehicle charging
  - This project is PHIUS Design Certified
    - <https://www.phius.org/certified-project-database/bourne-mill-phase-3>
  - This building, which is adjacent to an existing mill building is currently under construction and is expected to be completed in April 2024

In addition to participating in the RNC program, this project was awarded ZEOS funds in 2021



Images of Bourne Mill Phase 3 under construction are courtesy of Rhode Island Housing

- **Biscuit City Road, Charlestown**
  - The RNC program held a tour of this single-family home, in collaboration with the builder Steve DeMetrick of DeMetrick Housewrights
  - The home was currently under construction and is on track to meet DOE Zero Energy Ready
  - RI Energy is showcasing the home on their website: <https://weare.rienergy.com/building-a-zero-energy-ready-home/>
  - **Participant feedback:** *"That was an amazing tour/presentation! Thank you."*



Pictured Above: Steve DeMetrick of DeMetrick Housewrights



Pictures Above: Biscuit City home under construction

### **Income Eligible Services (IES)**

The Rhode Island Energy Income Eligible Services program achieved 8,158 net lifetime MWh of electric savings (33.9% of the lifetime goal) and 35,092 net lifetime MMBtu of gas savings (20.7% of the lifetime goal) through the second quarter of 2023.

The second quarter IES Best Practice meeting was held virtually, on 28 June 2023. This meeting focused on Rhode Island Energy Marketing, a DHS update, YTD Program Delivery Performance, Equity Teams, and a Q&A session. Representatives from 6 CAP agencies, Rhode Island Department of Human Service, Division of Public Utilities & Carriers, the Energy Efficiency Resource Management Council, Rhode Island Energy and CLEAResult attended.

The KPI process continued in the second quarter. The goal is to improve communications between CAPs and the Lead Agency. KPI meetings were held with each CAP, the Company's lead vendor and at least one RI Department of Human Services (DHS) representative. These meetings ensure that the CAPs are aware of their KPI goals, their pace to meet the goals and provide a dedicated time for constructive dialog.

Lead Vendor participated in the Policy Advisory Committee (PAC) meeting to review and comment on the DOE State Plan Application. The PAC is the group that has assisted the Department of Human Services chart a course for a successful Department of Energy program for 2023 and beyond.

## **Challenges and Responses**

Providing services equitably to all Rhode Island Income Eligible Customer continues to be a challenge. Q2 saw the kickoff of the Equity Teams. This is an iterative process with full agency cooperation and buy in. CAP agencies with capacity are assigned CAP territories that are behind in goals.

Air Source Heat Pump installation can be challenging. To streamline contractor management, one agency was selected, Comprehensive CAP. The selection criteria included outstanding relationships with qualified ASHP vendors, ability to rapidly inspect, process and pay contractors, and an historic reputation for outstanding customer service. Agencies are following protocols and submitting ASHP leads to CCAP.

Staffing and training continues to be a challenge to IES Program implementation. IES is implementing several approaches to reduce the impact of these barriers:

- Contracting for additional auditors has had limited success and payments from CAPs are slow and there are difficulties attracting freelance audit services to the agencies.
- RIBA Auditor & Installer program, RCWP (Residential Construction Weatherization Program) is building a class for 2023. This class will be sponsored by RI DHS and RIE IES. Scheduled to begin in Q3.
- Lead Vendor, Westbay CAP, DHS, and RIE will be working to transition existing AMP auditors and Weatherization auditors into Whole House auditors. OneAudit process to be created, tested, and perfected, by Westbay CAP in 2023.

## **Customer Highlight**

Ann from Riverside: *"It was a tremendous financial help, Nicholas was professional, personable, and a well-spoken young man."*

## **EnergyWise Single Family**

The EnergyWise Single Family program achieved 3,762 net lifetime MWh of electric savings (22.2% of the lifetime goal) and 172,525 net lifetime MMBtu of gas savings (35.2% of the lifetime goal) through the second quarter of 2023.

The EnergyWise program conducted 2,985 home energy assessments and completed 1066 weatherization projects in the first quarter.

Activities of interest include:

- The company and lead vendor staffed a booth at the RI Home Show (Thursday, March 30-Sunday, April 2) and received 257 leads for Home Energy Assessments.
- The lead vendor hired two new Energy Specialists in Q2, one of whom is bilingual in Spanish.
- A Heat Pump Concierge project was completed in Q2 with the proposed heat pumps being installed.
- Also, in Q2 a Heat Pump Concierge customer had a site visit and had a heat load calculation generated.
- In Q2 the EnergyWise lead vendor increased the utilization of virtual HEAs to reduce wait times for customers requesting audits for Heat Pumps
- Energy Specialists continue to have monthly sales training with Mark Jewell from "Selling Energy".
- Three Energy Specialists also received additional BPI Certifications including one Building Analyst and two BPI Proctor certifications.
- RGGI Moderate Income funding of \$1,125,000 is nearly fully subscribed. Email and paper letters were sent to weatherization customers in Central Falls, East Providence, Pawtucket, Providence, and Woonsocket to encourage participation.

### **Challenges and Responses**

Although the demand for Home Energy Assessments remains solid, the uptake of weatherization projects and electric savings has slowed down. The downturn is likely due to broader economic headwinds that are making customers reluctant to take on costs associated with weatherization projects and the change in the lighting offer for 2023.

In response, a targeted e-mail campaign focusing on customers who have had Home Energy Assessments but have not moved forward with weatherization projects was implemented in the early part of Q2. The limited time offer of an additional \$200 was made to customers to assist with their co-pay. Impacts of this initiative are currently being evaluated.



In response to the lagging electric savings a 100% incentive for electrically heated homes was developed to be implemented in the early part of Q3. These customers make ideal candidates for upgrades to ASHP when their home is fully weatherized.

### **Customer Highlights**

#### Customer feedback themes from the HEA include:

- Some customers expressed disappointment that some measures, including windows, were not included in the program offer.
- Other customers didn't feel the program offerings, rebates and incentives were enough to move forward with weatherization services.
- Many customers commented on the professionalism and technical knowledge exhibited by the auditor who conducted their HEA.

#### Customer feedback themes from weatherization contractors included:

- Many customers had strong praise for their contractors and Rise Engineering as well as the Energy Wise program as a whole.

### **EnergyWise Multifamily, Income Eligible Multifamily, C&I Multifamily**

The EnergyWise Multifamily program achieved 859 net lifetime MWh of electric savings (9.0% of the lifetime goal) and 6,236 net lifetime MMBtu of gas savings (5.6% of the lifetime goal) through the second quarter of 2023. The Income Eligible Multifamily program achieved 21 net lifetime MWh of electric savings (0.1% of the lifetime goal) and 1,789 net lifetime MMBtu of gas savings (1.0% of lifetime goal) through the second quarter of 2023. The C&I Multifamily program achieved 83 net lifetime MMBtu of gas savings (0.1% of the lifetime goal) through the second quarter of 2023.

### **Customer Highlights**

#### **Riverdale Apartments - West Warwick**

Standard Income weatherization project. Installed exterior wall insulation, interior attic air sealing and insulation, bath fan ventilation. The electric incentive for this project was \$14,716 with an estimated 70,330 net lifetime kWh savings.

#### **Wickenden Street Apartments – Providence**

Standard Income weatherization project. Installed common attic air sealing, duct sealing, attic insulation, in unit showerheads, and kitchen and bath aerators. The gas

incentives for this project were \$11,952 with an estimated 14,666 net lifetime therms savings.

### **Morin Heights - Woonsocket**

Income Eligible heating boiler project signed and in progress. Includes installation of a 285 MBH boiler with all pumps and controls, including heat circulators, and DHW indirect water heaters for 33 buildings. The gas incentive for this project is \$793,642 with an estimated 548,350 net lifetime therms savings. The electric incentive is \$85,000 with an estimated 318,505 net lifetime kWh savings.

### **Challenges and Responses**

Material lead times are still delaying installations of ASHPs and gas heating equipment.

Utility approval on micro-CHP interconnect has long turn-around times, which is delaying proposal presentations and job starts.

### **Workforce Development**

In Q2 Lead Vendor audit staff completed the Advanced Energy Auditing Course offered by UTS Energy Engineering.

All the Lead Vendor ASHP team completed SRGI heat pump training in Q2.

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

The ENERGYSTAR® HVAC (Heating and Cooling) program achieved 32,377 net lifetime MWh of electric savings (45.6% of the lifetime annual goal) and 142,977 net lifetime MMBtu of gas savings (27.6% of the lifetime goal) through the second quarter of 2023.

### **Q2 HVAC Contractor Trainings**

- A total of 24 trainings and events were held during the second quarter
  - 15 half-day and quarter-day contractor trainings were held during the second quarter, providing both refresher courses and trainings for new HVAC technicians
    - The HVAC Program offers several types of live virtual and on-site HVAC Check testing trainings and training modules
      - AC Check
      - MS Check (specifically for mini splits)
      - HVAC Check (which includes both MS Check and AC Check)
      - Manual D – Duct Design

- Manual J – Load Calculations
  - 7 of the trainings were held via live webinar
  - 8 of the trainings were held at HVAC contractor sites and the HVAC Vendor’s facility. Training locations:
    - Portsmouth
    - Seekonk
    - Middletown
    - West Warwick
    - Providence
    - Johnston
  - The Lead Vendor has a working 9,000 btu ductless mini split on a Quik Sling portable stand available for training purposes in the Providence office
  - This has been particularly valuable as a follow up to the virtual HVAC Check trainings and as refresher trainings for techs already active within the program
- 4 “Introduction to Heat Pump” trainings were held in partnership with RI Energy’s Residential New Construction and Codes & Standards Programs
- These are intended for a broad audience, including builders, contractors, homeowners, architects and building inspectors
  - They are aimed at raising general awareness of heat pump technology, understanding the importance of sizing, duct design and proper installation, and sharing best practices for operation
  - Training locations:
    - The Granite Group, Lincoln
    - Viessmann Manufacturing Co., Warwick
    - PuroClean, Cranston
- 5 additional events took place in Q2
- Barrington Town Community Event, Barrington
    - The Town of Barrington invited the Office of Energy Resources and RI Energy’s HVAC Lead Vendor to present at an event for local homeowners focused on heat pumps
    - The presentation included an overview of programs and incentives, local case studies and support with technical questions
    - **Attendee feedback:** *“I would like to thank you for your time and contribution to the heat pump event this week with Barrington — as you know, community outreach is an*

**CLEAResult**  
**RI Energy Code Event**

**Rhode Island Energy**

**Air Source Heat Pump Training @ Granite Group**

Tuesday, May 16, 2023  
 10:00 AM - 12:00 PM

Tuesday, June 6, 2023  
 10:00 AM - 12:00 PM

The recent shift to electrification and better performing homes has resulted in increased popularity of air source heat pumps. As the industry shifts, design professionals, installers and homeowners need to understand the basic principles behind the technology to effectively provide accurate heating, cooling, and dehumidification in their projects.

Come join us at [The Granite Group Plumbing Supply Store](#) for this free session that will provide an overview of Air Source Heat Pumps, which are a fast-growing portion of the residential HVAC market. Today's ducted heat pumps and "mini split" systems can provide very efficient heating and cooling, but only if they are well designed, installed, and operated. Come hear about proper sizing, [duct design strategies](#), and [operation tips](#) along with "the good, the bad and the ugly" of common work.

This presentation will cover four primary topics:

**Energy Code and Critical Control Layers**

- The building science behind drying potential and how ASHP are an integral component in the future of the construction industry

**Air Source Heat Pump principles**

- The mechanisms behind how they work
- The various types of ASHP - Ductless, wall mounted or hidden, Ducted, Heat pump water heaters, and Heat pump dryers
- Installation best practice
- Myths and pitfalls to avoid

**System Design**

- The importance of load calculations and duct design
- Design principles of Manual J, Manual S, and Manual D

**Mechanical ventilation**

- Heating, cooling, and ventilation as a system using exhaust only ventilation or balanced ventilation

In conclusion, we will discuss [RI Energy](#) and [Office of Energy Resources](#) incentives and rebate program.

Refreshments will be provided.

**Schedule:**  
 10:00 AM - 12:00 PM - Air Source Heat Pumps

**Location:**  
 The Granite Group Plumbing Supply Store  
 8 Court Drive  
 Lincoln RI, 02865

**THE GRANITE GROUP**  
 Great people. Great products.

*important part of our work, and we were thrilled to have you on board for this project. It was a pleasure working with you and learning more about the technology, thanks in no small part to your expertise.”*

- Mitsubishi Dealer Meeting, Westerly
  - The HVAC Lead Vendor was invited to present to contractors about installation best practices, available rebates, and HVAC Check testing to verify proper system performance.
- The Granite Group Counter Day, Lincoln
  - The HVAC Lead Vendor was invited to share resources with contractors as part of their “Counter Day”
- Providence Career Tech, Providence
  - Students from the Providence Career and Technical Academy visited the Lead Vendor’s facility for a hands-on training using the MSHP training system
  - See Q2 HVAC Program Highlights
- MTTI, Virtual
  - The HVAC Lead Vendor provided training for Refrigeration Apprentices at MTTI, a career trade school
  - See Q2 HVAC Program Highlights

### **Q2 HVAC Check Testing**

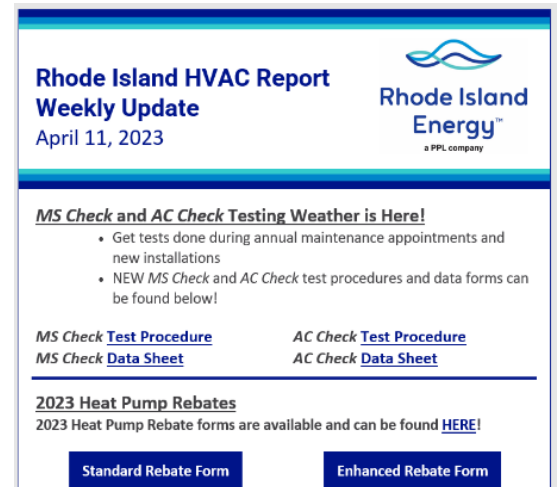
- The Program Lead Vendor actively reaches out to HVAC contractors to encourage them to perform HVAC Check testing on both new systems and existing systems during preventative maintenance visits to ensure proper operation
- HVAC Check testing can only be performed in warmer weather months
- HVAC contractors performed 228 HVAC Check tests during the second quarter

### **Q2 HVAC Enhanced Rebate Quality Control Inspections**

- 42 Quality Control (QC) inspections were performed on recently installed heat pumps that qualified for Enhanced Rebates
- These inspections verify equipment eligibility and provide an opportunity to connect with residents to determine how well their systems are operating, and to share best practices for successful operation

## Q2 Weekly HVAC Contractor Newsletter

- The Lead Vendor prepares and distributes a weekly HVAC Program newsletter specifically for HVAC companies, contractors, technicians, distributors, and other trade allies
- Topics for the newsletter during the second quarter included
  - Links to 2023 Rebate Forms
  - Information about new SEER2 and HSPF2 standards
  - Links to newly released Energy Star and 2023 federal tax credit standards
  - Links to upcoming HVAC Check trainings
  - Links to updated HVAC Check Test Forms
  - Industry best practices for successful installation and operation
  - Reminders of requirements for qualifying for Enhanced Rebates
  - Availability of program support in Spanish
- The newsletter also contained information and links to programs such as EnergyWise and the HEAT Loan
- There are 650+ recipients on the distribution list



## Q2 HVAC Program Highlights

- Providence Career & Technical Academy Training
  - Nine students, along with their teachers, came to the Lead Vendor's facility in Providence for hands-on training with the MSHP training system
  - The training focused on proper charging
  - **Teacher feedback** "Thanks so much for the training. It will really help with the AC and EPA 608 Module I have just started with the juniors."



Pictured above: Students arriving in PCTA school bus, and attending the training

- MTTI Career Trade School Training <https://mtti.edu/programs/hvacr-technician/>
  - The HVAC Lead Vendor provided two sessions of evening trainings for MTTI technicians to satisfy their Journeyman Refrigeration licenses training requirements
  - All are currently employed as Refrigeration Apprentices
  - The first session addressed AC Check and Manual D, the second session addressed MS Check and Manual J
  - This was delivered in partnership with Program Participating Contractor Lawrence Air Systems Inc., who brought several of their own technicians for refresher training

## Q2 High Efficiency Heat Pump Marketing

RI Energy sent three rounds of email marketing to customers in May to promote high efficiency heat pump rebates

- Open rates were 48-50%



**Sit back and relax with big rebates on cooling systems.**



No matter how you want to keep comfortable this summer, we have ways to help make it more affordable.

When it comes to staying comfortable at home, the little things you do to save energy can add up big. That's why we're offering Rhode Islanders rebates and 0% financing when they upgrade to more energy efficient ways to stay cool during the warmer months.

Bring energy costs down with qualifying high-efficiency equipment:

Equipment Type	Rebate Amount
All-Season Heat Pumps	Get up to <b>\$3,750</b> back**
Central Air Conditioning	Get up to <b>\$150</b> back*
Room Air Conditioner	Get <b>\$40</b> back

Heat pumps transfer heat from inside your home to outside. Connect with a [participating contractor](#) to discuss your best solution.

Central air conditioners deliver cool air throughout your entire home and are typically more energy efficient than window units.

An ENERGY STAR® certified room air conditioner saves energy and money while keeping you cool and comfortable.

[Learn more](#)   [Learn more](#)   [Learn more](#)

## Home Depot: North Kingstown – Smart Thermostat Rebates



### Q2 High Efficiency Gas Program Support

- The HVAC Lead Vendor continued to promote Rhode Island Energy’s high efficiency gas rebates to distributors, gas equipment factory representatives and contractors through the weekly newsletter

### Q2 HVAC Program Challenges

- The program continued to handle changes with the new equipment SEER2 and HSPF2 standards
  - DOE released new standards for rating the efficiency of heat pumps
  - Existing systems need to recertify but can continue to be sold through 2024
  - There is now a mix of SEER/HSPF and SEER2/HSPF2 rated equipment in the marketplace, with different AHRI numbers, which has created challenges for verifying rebate eligibility
  - To ease the transition the program is accepting both ratings in 2023
    - SEER2/HSPF2 standards equivalent to the current SEER/HSPF standards have been incorporated into the current rebate offering
  - It is anticipated that only SEER2/HSPF2 rated equipment will be eligible for program rebates beginning in 2024
- The program also fielded questions from contractors and customers about the new federal tax credits, and OER’s High-efficiency Heat Pump Program (HHP) which has been relabeled “Clean Heat RI” and is expected to launch in mid-August 2023



- Information about the 2023 federal tax credits was included in weekly program newsletters, along with news that the RGGI funded enhanced incentives for oil/propane heat displacement would continue to be offered in 2023 until the Clean Heat RI program begins

## **Residential Consumer Products**

The Residential Consumer Products program achieved 3,361 net lifetime MWh of electric savings (10.6% of the lifetime goal) through the second quarter of 2023.

### **Recycling:**

The dehumidifier recycling program is in full swing as we head into the warmer weather. The eight (8) events that have been held in 2023 have resulted in 851 dehumidifiers recycled, an average of 106 per event. There are six (6) more events scheduled in 2023. Customers continue to be delighted to recycle their inefficient dehumidifier and receive their \$30 energy efficient incentive. During these events customers are also informed of the many other residential products and incentives available to them through the energy efficient programs.

Event Number	Status	Event Date	Time	Event Partner or Store Name	City	State
1	Completed	3/25/2023	8AM - 12PM	Woonsocket DPW	Woonsocket	RI
2	Completed	4/1/2023	9AM - 1PM	Home Depot	Providence	RI
3	Completed	4/29/2023	9AM - 1PM	Lowes	N. Smithfield	RI
4	Completed	5/6/2023	9AM - 1PM	Home Depot	Warwick	RI
5	Completed	5/27/2023	9AM - 1PM	Home Depot	Middletown	RI
6	Completed	6/3/2023	9AM - 1PM	Lowes	N. Providence	RI
7	Completed	6/24/2023	9AM - 1PM	Home Depot	Coventry	RI
8	Completed	7/1/2023	9AM - 1PM	Home Depot	N. Kingston	RI
9	Confirmed	7/29/2023	9AM - 1PM	Lowes	Cranston	RI
10	Confirmed	8/5/2023	9AM - 1PM	Home Depot	Westerly	RI
11	Confirmed	8/26/2023	TBD	Central Falls DPW	Central Falls	RI
12	Confirmed	9/2/2023	9AM - 1PM	Compass Hardware	Charlestown	RI
13	Confirmed	9/9/2023	8am-12pm	Pawtucket DPW	Pawtucket	RI
14	Confirmed	9/30/2023	TBD	East Providence DPW	E. Providence	RI



Rhode Island Energy: The Home Depot, Warwick, RI 85 Dehumidifiers Recycled

Marketing promotion created by Rhode Island Energy that was emailed prior to the event.

**Dehumidifier Turn-in Event**

We're giving you \$30 for your old dehumidifier—  
and \$30 off a new one.

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**Saturday, May 6, 2023**  
9am – 1pm

**Home Depot**  
80 Universal Blvd, Warwick, RI 02886

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The little things you do to save energy and help the planet can really add up. That's why we're helping Rhode Islanders upgrade to more energy efficient appliances and safely recycle their old ones at dehumidifier turn-in events throughout the Ocean State.

**Just drive up and drop off your working, older model dehumidifier. We'll recycle it and send you a \$30 rebate check in the mail.**

While you're there, if you're shopping for a new dehumidifier, we're also offering a \$30 rebate when you purchase a new ENERGY STAR® certified model. You can apply online or via a mail-in rebate form.

[Learn more](#)

**Consumer Education and Retailer Outreach:**

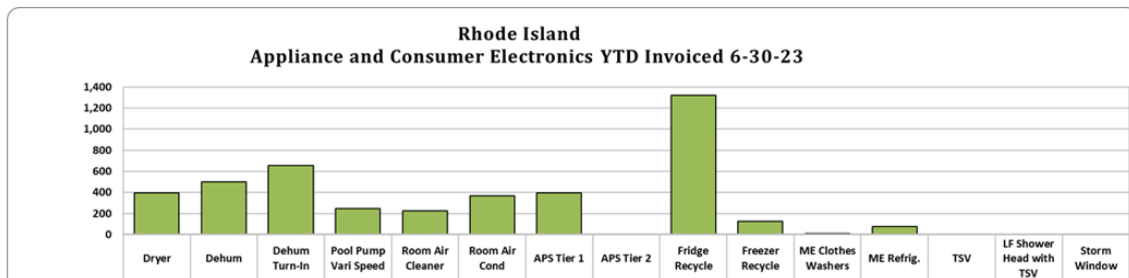
The Lead Vendor continues to promote the energy efficient products offered through the Rhode Island Energy program. These informal events give RIE customers an opportunity to ask questions and gain information on the programs.

Below, Carlos Sanchez staffs an educational table at Lowe's. The list of educational table events is provided below.



Event Date	Time	Event Partner or Store Name	Brief Description	City	State
3/31/2023	9 AM - 12 PM	Lowe's	Educational Table	Warwick	RI
3/31/2023	1 PM - 4 PM	Walmart	Educational Table	Westerly	RI
4/28/2023	9 AM - 12 PM	Walmart	Educational Table	Newport	RI
4/28/2023	1 PM - 4 PM	Lowe's	Educational Table	N. Smithfield	RI
5/26/2023	9 AM - 12 PM	Walmart	Educational Table	Johnston	RI
5/26/2023	1 PM - 4 PM	The Home Depot	Educational Table	N. Kingstown	RI
6/30/2023	9 AM - 12 PM	Lowe's	Educational Table	Warwick	RI
6/30/2023	1 PM - 4 PM	Lowe's	Educational Table	Cranston	RI

**Products:**



Lowes: North Providence -- Product Incentives and Appliance Recycling



Most Efficient Products: Home Depot



Job Lot: Coventry – Room Air Conditioners and Air Purifiers



**Pool Pumps Variable Speed/Frequency:**

Year to date, incentives for 248 VFD pool pumps have been issued.

There were some additions to the ENERGY STAR certified variable speed pool pump list this quarter. Included in these additions was the Hayward SP2670020. The Lead Vendor sent the newest ENERGY STAR list to distributors and found the new additions. All distributors are relieved to hear the SP2670020 was now included on the list and were notified that only installations made on or after May 26<sup>th</sup> would be eligible through the program.

Brand Name	Model Name	Model Number	Additional Mo	Product Type	Motor Design	Date Certified
Hayward	Super Pump VS 700	HL2670020VSP (115V)		In-Ground (Self-Priming) Pool Filter Pump	Variable-speed	5/26/2023
Hayward	Super Pump VS	W3SP2603VSP (115V)		In-Ground (Self-Priming) Pool Filter Pump	Variable-speed	5/26/2023
Hayward	Super Pump VS 700	SP2670020VSP (115V)		In-Ground (Self-Priming) Pool Filter Pump	Variable-speed	5/26/2023
Hayward	Super Pump VS	W3SP2603VSP (230V)		In-Ground (Self-Priming) Pool Filter Pump	Variable-speed	5/26/2023
Hayward	Super Pump VS 700	SP2670020VSP (230V)		In-Ground (Self-Priming) Pool Filter Pump	Variable-speed	5/26/2023
Hayward	Super Pump VS 700	HL2670020VSP (230V)		In-Ground (Self-Priming) Pool Filter Pump	Variable-speed	5/26/2023

Rhode Island Energy continues to market e-commerce Marketplace offering customers instant rebates as well as manufacturer discounts on a variety of products such as Air Purifiers, APS and Dehumidifiers.

## **Home Energy Reports (HER)**

The Home Energy Reports (HER) program achieved 12,972 net lifetime MWh of electric savings (53.3% of the lifetime annual goal) and 63,481 net lifetime MMBtu of gas savings (69.3% of the lifetime goal) through the second quarter of 2023.

In April, Home Energy Reports featured smart thermostats in an Earth Day piece. May reports promoted ENERGY STAR® efficient room air conditioners and June messaging focused on cold-climate heat pumps.

### **Save big on smart thermostats at our Earth Day sale!**



By coming together, Rhode Islanders like you can help bring meaningful change to our planet. This Earth Day and beyond, let's focus on the small actions you can take at home to make a big contribution. Check out the 5 ideas below to get started—visit our site for more—and begin saving money and energy today by shopping smart thermostats in our Earth Day Sale!

- Take our online Home Energy Assessment to receive personalized energy-saving tips.
- Get a smart thermostat—up to \$75 in rebates available!
- Recycle your old fridge or freezer—we'll pick it up and give you \$50!
- Change HVAC filters regularly to improve air quality and reduce energy use.
- Adjust your thermostat before leaving home: at least 72°F in summer and 68°F or lower in winter—a smart thermostat can do this for you, based on your schedule!

### **Is your AC costing you?**



Inefficient air conditioners waste energy and money. Upgrade to an efficient model for a cool, savings-filled summer. Get a \$40 rebate on an ENERGY STAR® certified room air conditioner.

### Save with rebates on a new cold-climate heat pump



Got a heating and/or cooling system that's starting to get old? It might be time to upgrade to the all-in-one convenience of a cold-climate heat pump. No matter the season, heat pump technology helps you stay cool in the summer and warm in the winter. Plus, we offer a variety of generous rebates, so you'll save even more when you upgrade.

## Rhode Island Code & Standards Technical Support Initiative (CSTS) Quarterly Report - Quarter 2, 2023

### Overview of Trainings

#### Q2 Trainings

- 20 training events with 248 attendees were held during the second quarter
  - 17 residential trainings, with 181 attendees
  - 3 commercial trainings, with 67 attendees

#### Q2 Training Topics

- Residential
  - One- and Two-Family Dwelling Code
  - Advanced Envelope & Building Science
  - Residential Energy Code Overview
  - Green Building Standards and Fundamentals
  - Healthy Homes
  - Air Sealing & Air Leakage Testing
  - Introduction to Residential Heat Pumps
  - Overview of the Energy Code & Zero Energy Homes
  - Introduction to HVAC

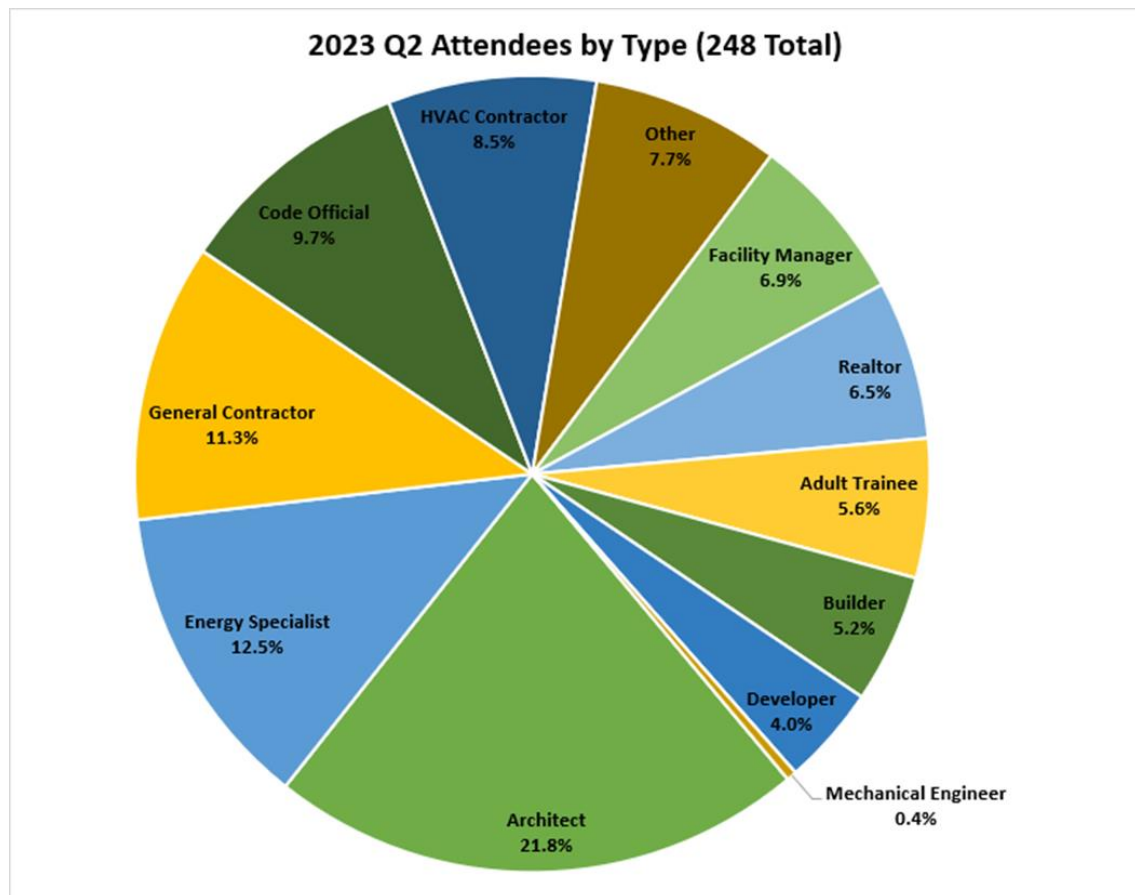
- DOE Zero Energy Ready Single-Family Home Tour
- Commercial
  - Building Envelope Details - Lessons Learned
  - Improving Efficiency with Benchmarking Analysis
  - Commercial Energy Code Case Study - Virtual Tour of URI

## **Q2 Training Locations**

- Some trainings continue to be delivered virtually, particularly those in partnership with AIA-RI, RIBA, and the RI Association of Realtors, who integrate these trainings into the education curriculum for their members.
- 12 of the 20 trainings were held in person (60%)
- In person training locations
  - Evening pre-apprentice training courses coordinated through the Residential Construction Workforce Partnership, Coventry
  - Rhode Island Housing, Providence
  - Viessmann Manufacturing Company, Warwick
  - Pomerantz Architects, Barrington
  - Puro Clean, Cranston
  - The Granite Group, Lincoln
  - DOE Zero Energy Ready Homes Tour, Charlestown
  - Plumbing & Mechanical Inspectors Association, East Providence



## Q2 Training Participants



## Q2 Industry Stakeholder Partnership Support, Engagement & Training Highlights

- **Rhode Island Builders Association (RIBA)**
  - The CSTS Vendor continued to partner with RIBA to deliver energy code trainings as part of their Contractor Training & Development Program
  - Q2 topics
    - April: Air Sealing & Air Leakage Testing
    - May: Residential Energy Code Overview
    - June: Green Building Standards and Fundamentals
  - Trainings were coordinated by RIBA and delivered via Zoom

- These trainings are approved for RI Contractor Registration & Licensing Board CEUs
- The CSTS Vendor continued to submit articles for RIBA's monthly magazine during the quarter
  - Topics included an overview of the Total UA Alternative Path in the Residential Energy Code, and Duct Sealing in Homes
- **American Institute of Architects - Rhode Island (AIA-RI)**
  - CSTS continued to partner with AIA-RI to offer AIA accredited trainings as part of their Continuing Education virtual Lunch and Learn series
  - Q2 topics
    - April: Commercial Energy Code Case Study - Virtual Tour of URI
    - June: Commercial Building Envelope Details - Lessons Learned
- **Rhode Island Plumbing & Mechanical Inspectors Association (RIPMIA)**
  - The CSTS Vendor provided a training on the 1- and 2-Family Dwelling Code as part of the Association's monthly meeting in June



- **Rhode Island Association of Realtors (RIAR)**
  - CSTS continued to partner with RIAR to offer trainings as part of their membership's training curriculum

- CSTS held trainings on Healthy Homes, and Green Building Standards and Fundamentals during Q2

➤ **Residential Construction Career Training**

- This 26-week evening pre-apprentice training course, which is funded through the RI Department of Labor and Training and Rhode Island Builders Association, is being offered through the Residential Construction Workforce Partnership (RCWP) and incorporates several of Rhode Island Energy's Programs
  - Income Eligible Services (IES)
    - This course provides the basic skills and training needed for entering a career in energy efficiency, including soft skills, introduction to building science, weatherization, and HVAC
    - The goal is to provide employment opportunities for participants by connecting them with companies and organizations such as CAP Agencies who often struggle to attract and retain skilled energy auditors
    - The IES program Vendor provides training on weatherization and the tools needed to participate in the program
  - High Efficiency HVAC
    - The HVAC Vendor provides training on heat pumps and high efficiency heating, cooling, and domestic hot water equipment
  - Residential New Construction (RNC)
    - The RNC Vendor provides training on building science, and zero energy homes
  - CSTS
    - The CSTS Vendor provides training on the energy code, including building science and air and duct leakage testing verification
- Classes are held on weeknights from 5.30 pm to 8.30 pm
- During Q2 the Vendors held a training on Introduction to HVAC



**RESIDENTIAL CONSTRUCTION CAREER TRAINING**

This FREE Training Program is valued at \$6,000 per participant!

**15-Week Residential Construction Pre-Apprentice Energy Weatherization Auditor, Installer & Performance Evaluator Training Program**

**Class dates coming soon**  
**Starting Fall 2021**  
 60-night, 780-hour training program

Classes meet Mondays, Tuesdays, Wednesdays, and Thursdays from 5:30 to 8:30 p.m.

Apply online at [builders.org/training-programs](http://builders.org/training-programs)



**Energy Inefficient** vs **Energy Efficient**

**Training Center:**  
 • RIBCA's Central Falls Vocational Facility 50 Higginson Ave., Central Falls 02863 (see this address for GPS, 2 Crow Point, Lincoln, RI 02863 we are across the street from Fortune Hubak). Training center subject to change.  
 • COVID-19 will determine a virtual start

This Training program is specifically designed for candidates that are seeking entry level positions into the Home Weatherization field focusing on existing homes in need of Energy Efficient updates. This training program is driven by industry involvement with local agency participation.

This project was funded in whole or in part by funds received from the Rhode Island Department of Labor and Training.

**Certifications and Certificates:**  
 • IBC Certification  
 • IBC Pre-Apprentice Carpentry Certification  
 • OSHA 10 Certification - Safety training about your rights, recognizing workplace hazards, prevention, and safety  
 • Lead Safety-Removal, Repair, and Painting Rule (RRPP) and/or 8-hour Remediator Certificate  
 • Basic First Aid Certificate

**Learning Outcomes:**  
 Individuals will learn widely used industry terminology related to building science and demonstrate how various components of a home interact to affect the overall performance. They will understand the relationship between the building envelope, heating, A/C, insulation, mechanical ventilation, lighting, appliances, and other systems of the home. They will also realize how these systems affect the comfort, health and safety of occupants, and durability of the structure. Graduates will also realize why improving the energy efficiency of the home should be the first step toward water, gas/electric, or other renewable energy improvements. Along with this they will be well versed in the trade, safety practices, and the practical applications such as basic skills and theory.

- Job Safety with OSHA-10
- Building Science/Home Construction
- Tools of the Trade and Trade Program Use
- Moist Barrier and Insulation
- Lead Safety
- IBC Pre-Apprentice Carpentry
- Building Performance Index (BPI)
- Basic First Aid
- JobSite Safety
- Preparing the Jobsite
- Employability/Soft Skills

The Energy Weatherization Auditor and Installer Training Program is made possible through the collaboration with CLEARresult Consulting Inc. CLEARresult offers Building Performance Institute (BPI) training and testing, including Residential Building Science, Weatherization, and Best Homeing Installation and Air Conditioning (HVAC) Best practices.

**RESIDENTIAL CONSTRUCTION BACK TO WORK HBI RIBUILDERS ASSOCIATION CLEARResult**

## CSTS Updates, Challenges & Solutions

- Code Update - Current Code
  - The RI Building Code Commission officially approved the current energy code in late 2021 and it went into effect early 2022
  - The current code is based upon 2018 IECC, but still contains several weakening amendments on the residential side
- Code Update - Next Code
  - 2021 IECC was under committee review for adoption as the next base code in Rhode Island
  - However, new legislature now requires the state to adopt 2024 IECC, with no weakening amendments
    - In June the RI General Assembly passed H6101/S0855 Sub A:  
<http://webserver.rilegislature.gov/BillText/BillText23/SenateText23/S0855A.pdf>
  - The building commissioner indicated they will consider forgoing adoption of the 2021 IECC and move to 2024 IECC once it has been published

- If not already required by the legislation, this will be voted on during the next RI Building Code Standards Committee (BCSC) meeting
- 2024 IECC will likely be published and adopted mid-2024
- The weakening residential amendments, which have been in place since the state's adoption of 2012 IECC in 2013, will be removed
- The removal of these amendments, as well as the adoption of the new base code, will result in a steep learning curve for the industry
  - CSTS met with the building commissioner in Q2 to discuss a support strategy
  - In advance of adoption, CSTS is preparing new curriculum and materials to increase understanding and knowledge of the new code
  - CSTS has scheduled trainings for Q2 and Q3 to share information about 2024 IECC, which is currently in final review

## **Large Commercial New Construction**

The Large Commercial New Construction program achieved 22,056 net lifetime MWh of electric savings (14.0% of goal) and 485,723 net lifetime MMBtu of gas savings (67.8% of goal) through the second quarter of 2023.

There are currently 61 active projects in Q2 2024. There are roughly 14 additional leads that we are working to obtain more information for project qualification. For Q3 2024, we may see some of the new leads become “active” projects.

- **61 Active Projects**
  1. **34 of 61 project represent 4,340,158 square feet** of building space
    - § 27 projects waiting on building size details
  2. **41 of 61 have a TA Study “in progress”**
  3. **28 of 61 “TBD” for Program Pathway**
  4. **14 of 61 “Path 1/Path 2”**
    - § 8 of 14 Path 1/ZNE/low-EUI
  5. **22 of 61 Path 3/Path/non-EUI**
  6. 13 have applications in tech review (i.e., est. incentive and “uncommitted”)
- 14 New Leads in early-stage customer engagement
- 17 Completed projects in CRM with total building SF of 1,860,000
- 16 Deferred projects due to financial re-evaluation of project or other reason not Program related

### **Challenges and Responses**

1. RI Energy working to create a robust marketing and outreach platform for NC Program
2. The Small Business Tool recently updated to add IECC 2018 to reflect the “current” RI Energy Code.
3. Developing a formalized process flow to outline roles and responsibilities for all stakeholders involved in New Construction
  - i. Dedicated RI Energy tech rep for all commercial new construction projects

## **Large Commercial Retrofit**

The Large Commercial Retrofit program achieved 58,166 net lifetime MWh of electric savings (23.7% of goal) and 85,758 net lifetime MMBtu of gas savings (9.4% of goal) through the second quarter of 2022.

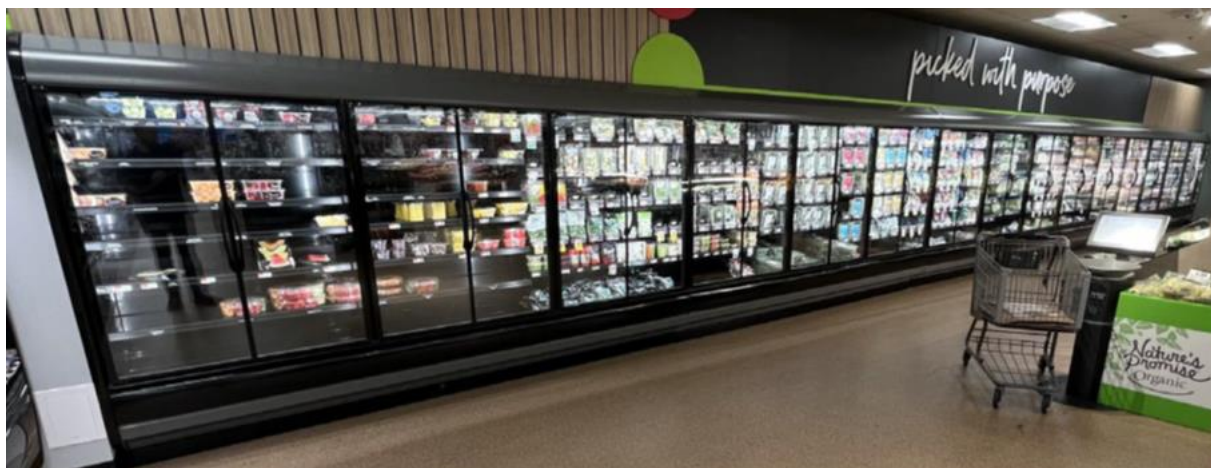
## **Industrial Initiative**

An industrial customer that operates a large warehouse area that shares space with other conditioned rooms (temperature and humidity for product quality) recently worked with Leidos to identify an energy conservation measure that amounts to over 14,700 therms of annual savings. Leidos found that a customer's exhaust fans were operating continuously throughout the year, creating a significant heating load for the facility during the heating season. The area is heated by (2) steam fired mezzanine air handling units. In addition to the warehouse exhaust fan controls, steam regulator valves were added to replace a failed regulator that would cause steam to be vented into the atmosphere when the space temperature requirements were met.

Leidos has proposed an automated controller and logic to operate the warehouse exhaust fans based on the internal warehouse temperature. The fan algorithm will operate when the outside air temperature is at or above 75°F. The fans will turn off below this temperature and will temporarily turn on when smoke is detected, automatically shutting back off using a wind-up timer control.

## **EnergySmart Grocer Initiative**

Remodel projects were done at two locations of a grocery store chain in East Providence and Lincoln, RI in Q2. These two stores had several improvements to stores including upgraded self-contained cases, night covers, destratification fans, lids on coffin cases, and adding doors to existing cases. Combined savings from these remodels total 80,894 kWh and 7,853 Therms





A pair of BMS projects from a national pharmacy chain in Warwick and Cranston were finalized in the second quarter, with more expected in the second half of the year. These projects yielded 14,282 kWh and 213 Therms. This pharmacy chain is moving through their entire banner with these BMS upgrades and cumulatively the project yields strong savings.

A	B	C	D	E	F	G	H	I	J
Site	Site City	Site Sta	15 Minute Interval	Thermostat Type	System Unit Name	Unit Name	EM2 Measure Type	EM2 Unit Of Measure	Avg Raw Value
WAG6592	Warwick	RI	28 Jan 2023 00:00:00	YorkRTU	AC 1 Sale	AC 1 Sale	COUNT_COOL_CYCLE	COUNT	0
WAG6592	Warwick	RI	28 Jan 2023 00:00:00	YorkRTU	AC 1 Sale	AC 1 Sale	COUNT_HEAT_CYCLE	COUNT	0
WAG6592	Warwick	RI	28 Jan 2023 00:00:00	YorkRTU	AC 1 Sale	AC 1 Sale	RUNTIME_CURTAILMENT	MINUTE	0
WAG6592	Warwick	RI	28 Jan 2023 00:00:00	YorkRTU	AC 1 Sale	AC 1 Sale	RUNTIME_RECOVERY	MINUTE	0
WAG6592	Warwick	RI	28 Jan 2023 00:00:00	YorkRTU	AC 1 Sale	AC 1 Sale	RUNTIME_SETBACK	MINUTE	0
WAG6592	Warwick	RI	28 Jan 2023 00:00:00	YorkRTU	AC 1 Sale	AC 1 Sale	SETPOINT_SCHEDULED_COOL	DEGREES_FAHRENHEIT	76
WAG6592	Warwick	RI	28 Jan 2023 00:00:00	YorkRTU	AC 1 Sale	AC 1 Sale	SETPOINT_SCHEDULED_HEAT	DEGREES_FAHRENHEIT	65
WAG6592	Warwick	RI	28 Jan 2023 00:00:00	YorkRTU	AC 2 Sale Stock	AC 2 Sale Stock	COUNT_COOL_CYCLE	COUNT	0
WAG6592	Warwick	RI	28 Jan 2023 00:00:00	YorkRTU	AC 2 Sale Stock	AC 2 Sale Stock	COUNT_HEAT_CYCLE	COUNT	0
WAG6592	Warwick	RI	28 Jan 2023 00:00:00	YorkRTU	AC 2 Sale Stock	AC 2 Sale Stock	RUNTIME_CURTAILMENT	MINUTE	0
WAG6592	Warwick	RI	28 Jan 2023 00:00:00	YorkRTU	AC 2 Sale Stock	AC 2 Sale Stock	RUNTIME_RECOVERY	MINUTE	0
WAG6592	Warwick	RI	28 Jan 2023 00:00:00	YorkRTU	AC 2 Sale Stock	AC 2 Sale Stock	RUNTIME_SETBACK	MINUTE	0
WAG6592	Warwick	RI	28 Jan 2023 00:00:00	YorkRTU	AC 2 Sale Stock	AC 2 Sale Stock	SETPOINT_SCHEDULED_COOL	DEGREES_FAHRENHEIT	76
WAG6592	Warwick	RI	28 Jan 2023 00:00:00	YorkRTU	AC 2 Sale Stock	AC 2 Sale Stock	SETPOINT_SCHEDULED_HEAT	DEGREES_FAHRENHEIT	65
WAG6592	Warwick	RI	28 Jan 2023 00:00:00	YorkRTU	AC 3 SMgr	AC 3 SMgr	COUNT_COOL_CYCLE	COUNT	0
WAG6592	Warwick	RI	28 Jan 2023 00:00:00	YorkRTU	AC 3 SMgr	AC 3 SMgr	COUNT_HEAT_CYCLE	COUNT	0
WAG6592	Warwick	RI	28 Jan 2023 00:00:00	YorkRTU	AC 3 SMgr	AC 3 SMgr	RUNTIME_RECOVERY	MINUTE	0
WAG6592	Warwick	RI	28 Jan 2023 00:00:00	YorkRTU	AC 3 SMgr	AC 3 SMgr	RUNTIME_SETBACK	MINUTE	0



## **Strategic Energy Management Partnerships (SEMP)**

Rhode Island Energy conducted a workshop collaborating with a premiere business park in partnership with the Office of Energy Resources, Commerce RI, and the Rhode Island Infrastructure Bank to present on renewable energy program offering and opportunities that are available to Rhode Island Businesses.

## **Community Solutions Initiative**

The results of the Q2 efforts on implementing initiatives for underserved communities was 20 new projects delivered under the Main St Program in East Providence, which included both Minority Owned and Women owned businesses. The Lead Vendor expects continued success in these markets, with the addition of an internal lead generation employee who was brought in and trained on methods of uncovering new opportunities, and assisting the Energy Specialists gain access to these facilities to develop energy saving strategies. As a result, the lead vendor has developed about 50 opportunities in Q2 with 6 projects already in construction.

## **Challenges and Responses**

The Company's vendor for the Grocer Initiative reported that program maturity seems to be contributing to cooling participation; some of the largest customers with the biggest footprint have little left to do in terms of energy efficiency. We are continuing to see an increase in customers engaging in ESPO measures over traditional EE measures. There is more focus on maintenance regimes instead of equipment upgrades to reduce energy consumption and prolong equipment life. One of the program's largest customers has put a stop to all spending due to some financial difficulties they are having, which is also impacting annual program savings.

With the larger customers having little left to do, we turned our attention to some of the smaller regional customers starting last year, but traction has been difficult to get. We are also trying to get commitment with some independent grocers and additional incentives were approved to win hearts and minds, but we are still waiting on a positive response from the customers to move ahead with projects. Additionally, as expected lighting projects have diminished significantly, as most of the LED lighting has been installed.

It's important to note that grocers are starting to think about the AIM Act Phasedown of HFCs, and the actions and capital needed to adhere to this phase down, specifically swapping out older refrigerants for more environmentally friendly refrigerants that reduce GHG emissions. We know that the cost of refrigerants is expected to increase by 800% in 2024 because of the expected demand. Some grocers are being proactive and starting this work now before the

costs get too high, but we do expect this regulation from the EPA to draw resources away from EE in 2024 and beyond.

### **Small Business Direct Install**

The Small Business Direct Install (SBDI) program achieved 11,120 net lifetime MWh of electric savings (19.2% of goal) and 20,532 lifetime MMBtu of gas savings (15.8% of goal) through the second quarter of 2023.

### **Enhanced reporting**

To show progress on priority initiatives, the Company is reporting the number of weatherization projects and LED retrofit kits and luminaires (with and without controls).

There were 10 gas weatherization projects in Q2 2023, leveraging RGGI funds provided by OER to supplement the system benefits charge (SBC) funds to enhance customer economics for these projects.

The table below shows the number of luminaires and retrofit kits with controls for 2020, 2021, 2022 and through Q2 of 2023.

<b>Period</b>	<b>Luminaires</b>	<b>Luminaires with controls</b>	<b>Retrofit kits</b>	<b>Retrofit kits with controls</b>
2020	13,032	149	17,260	450
2021	12,804	246	15,932	908
2022	9,918	2,256	8,675	856
2023	2907	45	2513	195

### **Project Highlights**

An indoor sports facility in North Smithfield installed high performance LED high bays and upgraded their HVAC/VFD system. The total project cost for both applications was \$64,081 with gross annual kWh savings of 64,961 kWh for LED and 93,681 kWh for the HVAC/VFD upgrade.

A private non-profit rehabilitation facility in Providence installed LED lighting and weatherization measures (Attic Insulation and Air Sealing). The total project cost for both applications was \$29,874 with gross annual kWh savings of 10,206 kWh for LED and 249 kWh as well as 644 gross annual therms for weatherization. This project was able to utilize a portion of the RGGI fund for the weatherization.

## **Challenges and Responses**

Due to the saturation of LED lighting and decrease in new lighting opportunities the Lead Vendor has continued to implement and improve on comprehensive measures as shown in the Main St initiative. The vendor developed VFD, Weatherization, Refrigeration Controls, plus some lighting opportunities in East Providence. As the market continues to shift away from lighting being the key energy reduction strategy, we plan to continue to train and implement new measures including industrial air curtains, hybrid water heaters, and a continued focus on weatherization.

## **Evaluation, Measurement, and Verification**

The *Residential New Construction and Code Compliance Study* was completed during the second quarter of 2023. The study involved 40 onsite visits to newly constructed non-program homes and collection of full home energy rating score (HERS) rating data. In addition, the evaluators visited building departments across the state to gather energy code compliance documentation. The study employed an analysis of building shell and mechanical equipment data and used energy modelling to assess code compliance. The results of the study are being used to modify savings estimates for the program and to inform future program design strategy.

Several studies were in progress at the end of the quarter; an asterisk indicates studies currently expected to be completed by the end of the third quarter:

- Small Business Process Evaluation\*
- C&I New Construction Baseline Study
- Automated RTU Optimization Demonstration Evaluation
- Impact Evaluation of Program Year (PY) 2021 Custom Gas Installations\*
- Impact Evaluation of PY2021 Custom Electric Installations\*
- Comprehensive Measure Life Review\*
- Participant Study Dashboard Update\*
- EnergyWise PY2021 Impact Evaluation Study\*
- Commercial and Industrial Free Ridership and Spillover Study\*
- Commercial Cooking Gas and Electric Impact Evaluation

The Company will provide further updates on these studies throughout 2023.

## ConnectedSolutions

ConnectedSolutions is gearing up for the June 1st start of the summer season. All devices enrolled in Rhode Island Energy territory were successfully migrated from National Grid to Rhode Island Energy in the administrator’s software just before the season start. Pre-season test events were run for residential batteries and C&I Daily & Targeted Dispatch successfully prior to any peak events being called.

## Demonstrations, Pilots, Assessments

<b>PDA Name</b>		<b>Q1 2023 Updates</b>
<b><u>Final Gas Appliances - Assessment - Resi</u></b>	Date	8/7/2023
	Stage	Final
	Recent Activity	Study report finalized.
	Next steps	Apply study results to program design
<b><u>Gas DR - Pilot - C&amp;I</u></b>	Date	8/2/2023
	Stage	Demonstrate
	Recent Activity	Active for Winter 2022-23
	Next steps	Analyze winter program performance
<b><u>Gas Leak Survey - Demonstration - C&amp;I</u></b>	Date	5/9/2023
	Stage	Demonstrate
	Recent Activity	Working with vendors to determine savings calculation assumptions and post-verification procedures.
	Next steps	Test post verification procedures at sites.
<b><u>Rightsizing RTUs - Assessment - C&amp;I</u></b>	Date	5/5/2023
	Stage	Plan
	Recent Activity	Completed assessment, which ID'd strategies for RTU right-sizing
	Next steps	Integrate strategies into program design and implementation
<b><u>Automated RTU Optimization - Demonstration - C&amp;I</u></b>	Date	8/2/23
	Stage	Demonstrate
	Recent Activity	Recruited customers; installed product and monitoring equipment
	Next steps	Measure summer performance
	Date	5/5/2023
	Stage	Demonstrate

<b><u>Commercial Weatherization - Assessment - C&amp;I</u></b>	Recent Activity	Completed Wx Training with Vendors, gathering feedback and research ongoing for offering development
	Next steps	Develop Express Tool
<b><u>Air Curtains - Demonstration - C&amp;I</u></b>	Date	1/26/2023
	Stage	Qualify
	Recent Activity	Opted to develop measure offering, in line with MA PA's.
	Next steps	Collaborate with MA develop program offering and develop go-to-market plan
<b><u>Smart Valves for Chilled Water Systems - Demonstration - C&amp;I</u></b>	Date	7/28/2023
	Stage	Plan
	Recent Activity	Final reported submitted
	Next steps	Review report and develop plan on next steps

## Rhode Island Energy Second Quarter Equity Update

08/01/2023

Rhode Island Energy will continue tracking the following 2022 Equity metrics in Q2 and Q4 of 2023.

- Assessment and Weatherization participation by town
- Single family participation in EnergyWise and Income Eligible Services programs by town

Municipality	EnergyWise HEA Participation 2023 through Q2
Adamsville	1
Ashaway	11
Barrington	88
Bradford	8
Bristol	101
Burrillville	12
Carolina	7
Central Falls	12
Charlestown	56
Chepachet	22
Coventry	153
Cranston	397
Cumberland	176
East Greenwich	150
East Providence	77
Esmond	27
Exeter	25
Forestdale	6
Foster	33
Glendale	2
Glocester	23
Greene	13
Greenville	33
Harmony	1
Harrisville	1
Hope	28
Hope Valley	24
Hopkinton	9
Jameston	1
Jamestown	51
Johnston	134
Kenyon	2
Kingston	7
L Compton	5
Lincoln	96
Little Compton	40
Manville	9
Mapleville	4

Middletown	55
Narragansett	96
Newport	100
North Kingstown	134
North Providence	134
North Scituate	32
North Smithfield	61
Oakland	4
Pawtucket	241
Peace Dale	14
Peacedale	5
Portsmouth	109
Providence	525
Prudence Isl	2
Prudence Island	1
Richmond	5
Riverside	89
Rockville	1
Rumford	40
Saunderstown	32
Scituate	18
Shannock	2
Slatersville	4
Smithfield	21
South Kingstown	8
Tiverton	85
Wakefield	120
Warren	43
Warrren	1
Warwick	391
Weekapaug	1
West Greenwich	38
West Kingston	19
West Warwick	106
Westerly	116
Wood River Jt	2
Wood River	
Junction	1
Woonsocket	128
Wyoming	11

Municipality	EnergyWise Weatherization Participation 2023 through Q2
Ashaway	2
Barrington	43
Bristol	37
Burrillville	2
Central Falls	2
Charlestown	7

Chepachet	6
Clayville	1
Coventry	55
Cranston	105
Cumberland	64
East	
Greenwich	40
East	
Providence	25
Esmond	7
Exeter	6
Foster	10
Glendale	1
Glocester	8
Greene	2
Greenville	15
Hope	4
Hope Valley	1
Hopkinton	2
Jamestown	14
Johnston	39
Kenyon	1
Kingston	3
Lincoln	21
Little Compton	6
Manville	3
Mapleville	3
Middletown	20
Narragansett	28
Newport	16
North	
Kingstown	39
North	
Providence	33
North Scituate	6
North	
Smithfield	8
Pawtucket	75
Peace Dale	2
Portsmouth	30
Providence	115
Prudence	
Island	1
Richmond	4
Riverside	27
Rumford	20
Saunderstown	11
Scituate	2
Smithfield	10
South	
Kingstown	2
Tiverton	15



Wakefield	25
Warren	30
Warwick	123
West	
Greenwich	11
West Kingston	6
West Warwick	36
Westerly	24
Woonsocket	26
Wyoming	3

Municipality	Income Eligible Services HEA Participation 2023 through Q2
ASHAWAY	5
BARRINGTON	5
BRISTOL	1
BURRILLVILLE	3
CAROLINA	1
CHARLESTOWN	5
CHEPACHET	1
CLAYVILLE	1
COVENTRY	8
CRANSTON	154
CUMBERLAND	2
EAST GREENWICH	2
EAST PROVIDENCE	15
ESMOND	6
EXETER	2
FOSTER	6
FOSTER CENTER	1
GLOCESTER	2
GREENVILLE	6
HOPE	6
HOPE VALLEY	2
HOPKINTON	2
JAMESTOWN	4
JOHNSTON	36
L COMPTON	2
LINCOLN	2
MANVILLE	1
MAPLEVILLE	1
MIDDLETOWN	3
NARRAGANSETT	5
NEWPORT	1
NORTH	
KINGSTOWN	12
NORTH	
PROVIDENCE	46
NORTH SCITUATE	4
OAKLAND	2

PAWTUCKET	16
PEACE DALE	1
PORTSMOUTH	5
PROVIDENCE	36
RIVERSIDE	9
RUMFORD	4
SAUNDERSTOWN	1
SCITUATE	2
SMITHFIELD	2
TIVERTON	19
WAKEFIELD	6
WARREN	8
WARWICK	26
WEST GREENWICH	3
WEST KINGSTON	3
WEST WARWICK	15
WESTERLY	8
WYOMING	1

Municipality	Income Eligible Services Wx Participation 2023 through Q2
ASHAWAY	1
BARRINGTON	2
BRADFORD	1
CAROLINA	1
CENTRAL FALLS	5
CHARLESTOWN	1
CHEPACHET	3
COVENTRY	7
CRANSTON	40
CUMBERLAND	2
EAST PROVIDENCE	2
GREENVILLE	3
HOPE	1
JAMESTOWN	1
JOHNSTON	12
MAPLEVILLE	1
MIDDLETOWN	1
NARRAGANSETT	3
NEWPORT	2
NORTH KINGSTOWN	8
NORTH PROVIDENCE	10
NORTH SCITUATE	3
NORTH SMITHFIELD	2
PAWTUCKET	13
PORTSMOUTH	3
PROVIDENCE	46

RIVERSIDE	7
TIVERTON	3
WAKEFIELD	3
WARREN	1
WARWICK	27
WEST KINGSTON	3
WEST WARWICK	2
WESTERLY	2
WOOD RIVER JT	1
WOONSOCKET	2

- EnergyWise and Income Eligible Services single family owner versus renter information

Through Q2, 2023, EnergyWise had 12.7% renter participation in HEAs and 10.2% landlord/renter weatherization participation.

The Income Eligible Services program had 29.8% renter participation in HEAs and 15.6% renter/landlord weatherization participation.

- Energy Efficiency outreach and education with other community organizations
  - Outreaches at Customer Assistance Expos include:
    - Davinci Center – Providence
    - Woonsocket Public Library – Woonsocket
    - Blackstone Valley Prep – Cumberland
    - West Warwick Senior Center – West Warwick- co-sponsored with Representative Noret
    - East Providence Public Library – East Providence
  - Earth Day Employee event at Ocean State Job Lot
  - Aging in Place Resource Fair – Jamestown
  - Non-Violence Institute Resource Fair – Providence
  - Carbon Footprint Fair – Cumberland
  - Ocean State Center for Independent Living Lunch and Learn – Warwick
  - VA Career Fair – Providence
  - Progresso Latino – Central Falls
  - RI Department of Health
- Organizations targeting to conduct EE training:
  - Davinci Center
  - Woonsocket/Pawtucket YMCA
  - Providence YMCA
  - Project Hope/Diocese of Providence
  - Progresso Latino
  - Housing Network of RI
  - Housing Works RI

- Dorcas
- East Providence Senior Center
- Cranston YMCA
- United Way 2-1-1
- Family Service of RI
- City of East Providence Constituent Services
- Woonsocket Constituent Services
- Central Falls Constituent Services
- Habitat for Humanity

2023 Equity Outreach & Engagement
Increase cross-training of Customer Advocates, CAP agencies, and other home-visiting programs (WIC, lead, etc.) to better understand available programs and services for both energy efficiency and health/well-being – <i>Ongoing, see list above of organizations working with to expand engagement</i>
Continue to meet communities where they are at through enhancing promotion and education, which includes the translation of resources and trainings into other languages such as Spanish, Portuguese, Hmong, Creole, etc. – <i>Moderate Income promotion receiving a lot of traction. RGGI funds of \$1,125,00 fully subscribed with significant number of moderate income customers weatherization pending. Majority of email outreach to customers in English, Spanish, and Portuguese.</i>
Have X amount staff members attend/host X amount of events in communities and host “office hours” or tabling events to answer any questions and make connections. This should be done at community gathering places such as food pantries, churches, back to school events, local parks and community events. – <i>Ongoing, see list of outreaches and engagement above.</i>

2023 Equity Workforce Development & Training
Continue to support and fund programs like RIBA’s Residential Construction Workforce Partnership – <i>Supporting Residential Construction Workforce Partnership with \$40,000 in training funding for 2023.</i>
Set concrete goals for minority/women-owned business hiring or spending. – <i>Will work with EWG to set target.</i>
Continue to coordinate and partner with community-based organizations and minority business organizations - <i>Ongoing</i>
Create an internship program or build upon existing efforts to focus on residents (both high school/vocational students and adults) of Environmental Justice (EJ) communities and other underrepresented groups to join the energy workforce – <i>RIE recruiting at Community Job Fair. Northern Rhode Island Chamber of Commerce is partnering with the Rhode Island Hispanic Chamber of Commerce, the City of Central Falls, and Rhode Island College to host a Community Job Fair! Also attended the VA Career Fair.</i>
Develop inclusive marketing tools and strategies about career pathways that have information on trainings, wages, and market opportunities – <i>Part of ongoing Workforce Development. RIE has hired a Manager of Diversity, Equity, and Inclusion focused on recruiting a Diverse workforce.</i>

In addition to continuing to support WFD and training programs, research and survey current training hubs to get a better idea on training needs and support needed to have more access to job opportunities and continue training – *Workforce Needs Assessment completed.*

A sample of a moderate income email and letter sent to residents in the five equity communities is shown below as well as open rates from the email.

Town	Send Date	Opens	Open Rate	Spanish (clicked "Haga click aquí para leer este mensaje en español")	Portuguese (clicked "Clique aqui para ler esta mensagem em português")
Central Falls Residential	Mon 7/10	1,241	42%	9	2
Central Falls Discount Rate	Tue 7/11	383	48%	4	0
Pawtucket Residential Drop 1	Mon 7/17	4,388	41%	5	2
Pawtucket Residential Drop 2	Wed 7/19	2,760	45%	2	0
Pawtucket Discount Rate	Wed 7/19	1,298	48%	4	4
Woonsocket Residential	Mon 7/24	3,800	42%	1	1
Woonsocket Discount Rate	Mon 7/24	744	43%	2	1
<b>Total</b>	<b>Total</b>	<b>14,614</b>	<b>43%</b>	<b>27</b>	<b>10</b>



T29\*\*B24\*\*6208\*\*\*\*\*MIXED AADC 021  
Giovanni Carmona  
Or Current Resident



**Rhode Island Energy**<sup>™</sup>

a PPL company

200 Melrose Street  
Providence, RI 02907

1 888 633 7947  
rienergy.com

## Central Falls residents may qualify for 100% off energy efficiency upgrades.

Dear Valued Customer,

As a Rhode Island Energy customer, whether you're a homeowner, renter or landlord, you can enjoy lower energy costs and a more comfortable home.

It all starts with a no cost Home Energy Assessment, where our Energy Specialists provide a personalized plan to show how you can take advantage of 100% no cost energy efficiency upgrades, year-round savings and rebates.

- Enjoy no cost air sealing.
- Receive 50% or more off approved home insulation (up to \$4,000).
  - Income qualified homeowners may be eligible\* for 100% off approved insulation (up to \$15,000).
  - Renters and landlords of one- to four-unit properties may qualify for 100% off approved insulation (up to \$4,000 per unit).
- Get access to generous rebates on qualifying energy efficient products—up to \$2,750.
- Apply for a 0% interest loan for eligible energy efficiency improvements.

If you've already had a Home Energy Assessment, consider upgrading your heating, cooling or water heating equipment and claiming generous rebates from Rhode Island Energy. Visit [rienergy.com/comfort](http://rienergy.com/comfort) to learn more.

**If you're a homeowner, renter or landlord who hasn't completed a Home Energy Assessment, call 1-888-633-7947 to schedule yours today.**



This program is designed for Rhode Island one- to four-unit homes. If you live in a building with 5+ units, you may be eligible through the multifamily program; landlords of 5+ units or condo associations can call 1-888-633-7947 to learn more. These programs are funded by the energy efficiency charge on all customers' gas and electric bills, in accordance with Rhode Island law.

This program is offered by Management Credit Company d/b/a Rhode Island Energy for eligible customers in the Company's Rhode Island service territory.

\*For example, a household of four with a pre-tax annual household income of \$65,400 - \$91,200 is eligible for the income qualified offer. Please call 1-888-633-7947 for the full income guidelines.







**Rhode Island Energy**  
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281 Melrose Street  
Providence, RI 02907 | 1-888-633-7947  
rienergy.com

## Los residentes de Central Falls pueden calificar para un 100% de descuento en actualizaciones de eficiencia energética.

Estimado cliente valioso:

Como cliente de Rhode Island Energy, ya sea propietario, inquilino o arrendador de una vivienda, puede disfrutar de costos de energía más bajos y de un hogar más cómodo.

Todo comienza con una Evaluación de energía del hogar sin costo, donde nuestros especialistas en energía brindan un plan personalizado para mostrar cómo puede aprovechar las actualizaciones de eficiencia energética 100% sin costo, y los ahorros y reembolsos durante todo el año.

- Disfrute del sellado de aire sin costo alguno.
- Reciba un 50% o más de descuento en aislamiento aprobado para el hogar (hasta \$4,000).
  - Los propietarios de viviendas que cumplan los requisitos de ingresos pueden ser elegibles\* para 100% de descuento en aislamiento aprobado (hasta \$15,000).
  - Los propietarios o inquilinos de propiedades de una a cuatro unidades pueden calificar para un 100% de descuento en aislamiento aprobado (hasta \$4,000 por unidad).
- Obtenga acceso a generosos reembolsos en productos de bajo consumo que califiquen, hasta \$2,750.
- Solicite un préstamo con 0% de interés para mejoras elegibles de eficiencia energética.

Si ya ha realizado una Evaluación de energía del hogar, considere actualizar su equipo de calefacción, refrigeración o calentamiento de agua y reciba generosos reembolsos de Rhode Island Energy. Visite [rienergy.com/comfort](http://rienergy.com/comfort) para obtener más información.

**Si es propietario, inquilino o arrendador de una vivienda y no ha completado una Evaluación de energía del hogar, llame al 1-888-633-7947 para programar la suya hoy mismo.**



Este programa está diseñado para hogares de una a cuatro unidades de Rhode Island. Si vive en un edificio con 5 unidades o más, puede ser elegible a través del programa multifamiliar. Los propietarios de 5 unidades o más o las asociaciones de condominio pueden llamar al 1-888-633-7947 para obtener más información. Estos programas se financian con el cargo por eficiencia energética que se aplica en las facturas de gas y electricidad de todos los clientes, de conformidad con las leyes de Rhode Island.

Este programa es ofrecido por Navigant Energy Company que opera con el nombre comercial Rhode Island Energy para clientes elegibles en el territorio de servicio de la compañía en Rhode Island.

\*Por ejemplo, una familia de cuatro personas con un ingreso familiar anual antes de impuestos de \$45,900 a \$87,200 es elegible para la oferta basada en los ingresos. Llame al 1-888-633-7947 para conocer los pormenores de ingreso calificados.





**Rhode Island Energy™**  
a PPL company

200 Melrose Street  
Providence, RI 02907 | 1 888 633 7947  
rienergy.com

## Os residentes em Central Falls podem ser elegíveis para a obtenção de um desconto de 100% em melhorias de eficiência energética.

Estimado Cliente,

Enquanto cliente da Rhode Island Energy, quer seja um proprietário, inquilino ou senhorio, pode usufruir de custos de energia mais baixos e de uma casa mais confortável.

Tudo começa com uma avaliação do consumo doméstico de energia gratuita, na qual os nossos especialistas em energia elaboram um plano personalizado para mostrar como pode tirar partido das melhorias de eficiência energética e das poupanças e descontos durante todo o ano, sem qualquer custo.

- Desfrute de uma impermeabilização gratuita.
- Obtenha um desconto de 50% ou superior em isolamento doméstico aprovado (até 4000 \$).
  - Os proprietários qualificados com base no rendimento podem ser elegíveis\* para um desconto de 100% em isolamento aprovado (até 15.000 \$).
  - Os inquilinos e senhorios de propriedades com uma a quatro unidades podem ser elegíveis para a obtenção de um desconto de 100% em isolamento aprovado (até 4000 \$ por unidade).
- Obtenha acesso a descontos generosos em produtos de eficiência energética elegíveis, até 2750 \$.
- Candidate-se a um empréstimo com 0% de juros para melhorias energeticamente eficientes.

Se já realizou uma avaliação do consumo doméstico de energia, pondere melhorar o seu equipamento de aquecimento, arrefecimento ou aquecimento da água e obtenha descontos generosos da Rhode Island Energy. [Aceda a \[rienergy.com/comfort\]\(http://rienergy.com/comfort\) para saber mais.](http://rienergy.com/comfort)

**Se for um proprietário, inquilino ou senhorio e ainda não tiver realizado uma avaliação do consumo doméstico de energia, ligue para 1-888-633-7947 para marcar já a sua.**



Este programa foi concebido para casas em Rhode Island com uma a quatro unidades elegíveis. Se viver num prédio com mais de 5 unidades, pode ser elegível por meio do programa multifamiliar: senhorios de mais de 5 unidades ou associações de condóminos podem ligar para 1 888 633 7947 para obter mais informações. De acordo com a legislação de Rhode Island, estes programas são financiados pela taxa de eficiência energética cobrada nas contas de gás e eletricidade de todos os clientes.

Este programa é financiado pela Narragansett Electric Company, com o nome comercial Rhode Island Energy a clientes elegíveis no território de serviço da empresa em Rhode Island.

\*Por exemplo, um agregado familiar de quatro com um rendimento anual bruto de 65.000 \$ a 87.900 \$ é elegível para a prestação com elegibilidade baseada no rendimento. Ligue para 1 888 633 7947 para obter as diretrizes sobre o rendimento na energia.





Rhode Island Energy  
an eversource company

## East Providence residents could qualify for 100% off approved insulation.



### One small step can make a big difference.

Whether you're a homeowner, renter or landlord, you can enjoy lower energy costs and a more comfortable home. It all starts with a no cost Home Energy Assessment, where our Energy Specialists provide a personalized plan to show how you can take advantage of energy efficiency upgrades and year-round savings.

You may qualify for no cost **upgrades, rebates, financing and more.**

- Enjoy no cost air sealing.
- Receive 50% or more off approved home insulation (up to \$4,000). Income-qualified homeowners may be **eligible\*** for 100% off approved insulation (up to \$15,000). Renters and landlords of one- to four-unit homes may qualify for 100% off approved insulation (up to \$4,000 per unit).
- Apply for a 0% interest loan for eligible energy efficiency improvements.

After you complete a Home Energy Assessment, you'll receive these energy-saving products at no cost:



Programmable thermostat



Water saving faucet aerator



Low flow showerheads

#### If you've already had a Home Energy Assessment:

Consider upgrading your heating, cooling or water heating equipment and claiming generous rebates.

[Learn more](#)

If you're a homeowner, renter or landlord who hasn't completed a Home Energy Assessment, schedule yours today.

[Call 888-633-7947](#)

[Learn more](#)



**RHODE ISLAND ENERGY ENERGY-EFFICIENCY PROGRAMS IN RHODE ISLAND**

**Table 1: Summary of Electric 2023 Target and Preliminary 2nd Quarter Results**

ELECTRIC PROGRAMS Sector and Program	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(18)	(13)	(14)	(15)	(19)	(16)	(17)
	Demand Reduction (Annual kW)			Energy Savings (Annual MWh)			Customer Participation			Expenses (\$ 000)				Energy Savings (Lifetime MWh)				\$/Lifetime kWh	
	Target	Year To Date	Pct Achieved	Target	Year To Date	Pct Achieved	Target	Year To Date	Pct Achieved	Budget	Year To Date	Pct Achieved	Year End Forecast	Target	Year to Date	Pct Achieved	Year End Forecast	Target \$/kWh	Year to Date
<b>Commercial and Industrial</b>																			
Large Commercial New Construction	1,306	166	12.7%	10,481	1,549	14.8%	45	12	26.5%	\$ 8,269.2	\$ 1,314.0	15.9%	66.0%	157,598	22,056	14.0%	70.0%	\$ 0.052	\$ 0.060
Large Commercial Retrofit	6,143	1,135	18.5%	35,260	7,791	22.1%	2,142	1,573	73.4%	\$ 22,176.2	\$ 3,099.1	14.0%	69.0%	244,962	58,166	23.7%	107.0%	\$ 0.091	\$ 0.053
Small Business Direct Install	708	265	37.4%	9,260	1,688	18.2%	339	134	39.5%	\$ 7,552.2	\$ 966.9	12.8%	115.0%	57,778	11,120	19.2%	120.0%	\$ 0.131	\$ 0.087
Commercial ConnectedSolutions										\$ 5,666.8	\$ 349.5	6.2%	100.0%						
Community Based Initiatives - C&I										\$ 93.5	\$ 0.5	0.5%	100.0%						
Financing										\$ 2,000.0	\$ -	0.0%	100.0%						
Commercial Workforce Development										\$ 157.5	\$ 9.3	5.9%	100.0%						
<b>SUBTOTAL</b>	<b>8,157</b>	<b>1,566</b>	<b>19.2%</b>	<b>55,001</b>	<b>11,028</b>	<b>20.1%</b>	<b>2,526</b>	<b>1,718</b>	<b>68.0%</b>	<b>\$ 45,915.5</b>	<b>\$ 5,739.4</b>	<b>12.5%</b>	<b>81.4%</b>	<b>460,338</b>	<b>91,342</b>	<b>19.8%</b>	<b>96.0%</b>	<b>\$ 0.100</b>	<b>\$ 0.063</b>
<b>Income Eligible Residential</b>																			
Single Family - Income Eligible Services	367	115	31.3%	2,539	652	25.7%	3,111	1,537	49.4%	\$ 11,843.2	\$ 3,341.1	28.2%	93.0%	24,080	8,158	33.9%	97.0%	\$ 0.492	\$ 0.410
Income Eligible Multifamily	90	1	1.1%	1,298	8	0.6%	2,786	0	0.0%	\$ 3,335.8	\$ 111.4	3.3%	90.0%	17,632	21	0.1%	85.0%	\$ 0.189	\$ 5.307
<b>SUBTOTAL</b>	<b>457</b>	<b>116</b>	<b>25.4%</b>	<b>3,837</b>	<b>660</b>	<b>17.2%</b>	<b>5,897</b>	<b>1,537</b>	<b>26.1%</b>	<b>\$ 15,179.0</b>	<b>\$ 3,452.6</b>	<b>22.7%</b>	<b>92.3%</b>	<b>41,712</b>	<b>8,179</b>	<b>19.6%</b>	<b>91.9%</b>	<b>\$ 0.364</b>	<b>\$ 0.422</b>
<b>Non-Income Eligible Residential</b>																			
Residential New Construction	16	20	125.0%	689	89	12.9%	410	201	49.0%	\$ 1,592.0	\$ 361.5	22.7%	95.0%	13,144	2,093	15.9%	85.0%	\$ 0.121	\$ 0.173
ENERGY STAR® HVAC	640	61	9.5%	4,175	1,845	44.2%	6,371	1,274	20.0%	\$ 5,340.8	\$ 1,722.6	32.3%	100.0%	71,055	32,377	45.6%	115.0%	\$ 0.075	\$ 0.053
EnergyWise	466	121	26.0%	3,147	730	23.2%	9,465	4,695	49.6%	\$ 15,585.3	\$ 4,619.6	29.6%	100.0%	16,940	3,762	22.2%	85.0%	\$ 0.920	\$ 1.228
EnergyWise Multifamily	108	26	24.1%	680	112	16.5%	1,744	29	1.7%	\$ 1,341.2	\$ 310.1	23.1%	75.0%	9,493	859	9.0%	75.0%	\$ 0.141	\$ 0.361
Residential Consumer Products	885	54	6.1%	4,473	410	9.2%	26,274	914	3.5%	\$ 2,489.1	\$ 595.1	23.9%	80.0%	31,684	3,361	10.6%	65.0%	\$ 0.079	\$ 0.177
Home Energy Reports	3,348	1,784	53.3%	24,350	12,972	53.3%	276,390	246,140	89.1%	\$ 2,145.8	\$ 988.6	46.1%	100.0%	24,350	12,972	53.3%	53.3%	\$ 0.088	\$ 0.076
Residential ConnectedSolutions										\$ 1,963.1	\$ 1,031.5	52.5%	100.0%						
Energy Efficiency Education Programs										\$ -	\$ -	0.0%	0.0%						
Community Based Initiatives - Residential										\$ 280.6	\$ -	0.0%	100.0%						
Comprehensive Marketing - Residential										\$ 310.5	\$ 208.4	67.1%	100.0%						
<b>SUBTOTAL</b>	<b>5,463</b>	<b>2,066</b>	<b>37.8%</b>	<b>37,514</b>	<b>16,158</b>	<b>43.1%</b>	<b>320,654</b>	<b>253,253</b>	<b>79.0%</b>	<b>\$ 31,048.3</b>	<b>\$ 9,837.3</b>	<b>31.7%</b>	<b>97.1%</b>	<b>166,666</b>	<b>55,424</b>	<b>33.3%</b>	<b>88.8%</b>	<b>\$ 0.186</b>	<b>\$0.177</b>
<b>Regulatory</b>																			
EERMC										\$ 594.3	\$ 177.3	29.8%	100.0%						
OR										\$ 891.4	\$ 532.4	59.7%	100.0%						
RI Infrastructure Bank										\$ 3,737.5	\$ 1,867.5	50.0%	100.0%						
<b>SUBTOTAL</b>										<b>\$ 5,223.2</b>	<b>\$ 2,577.2</b>	<b>49.3%</b>	<b>100.0%</b>						
<b>TOTAL</b>	<b>14,077</b>	<b>3,748</b>	<b>26.6%</b>	<b>96,352</b>	<b>27,846</b>	<b>28.9%</b>	<b>329,077</b>	<b>256,508</b>	<b>77.9%</b>	<b>\$ 97,365.9</b>	<b>\$ 21,606.4</b>	<b>22.2%</b>	<b>89.1%</b>	<b>668,716</b>	<b>154,945</b>	<b>23.2%</b>	<b>93.9%</b>	<b>\$ 0.146</b>	<b>\$0.139</b>

**NOTES**

- (1)(4)(7) Targets from Docket 22-33-EE - Attachment 5, Table E-7, Refiled January 23, 2023.
  - (3) Pct Achieved is Column (2)/ Column (1).
  - (6) Pct Achieved is Column (5)/ Column (4).
  - (7) Participation was planned and is reported in 'net' terms which takes into account free-ridership and spillover.
  - (9) Pct Achieved is Column (8)/ Column (7).
  - (10) Approved Implementation Budget from Docket 22-33-EE, Attachment 5 Table E-3 (electric), Refiled January 23, 2023.
  - (11) Year To Date Expenses include Implementation expenses.
  - (12) Pct Achieved is Column (11)/ Column (10).
  - (16) Planned \$/lifetime MWh from Docket 22-33-EE- Attachment 5, Table E-5, Refiled January 23, 2023 - adjusted to reflect format of quarterly report. Program Implementation Expenses/lifetime kWh.
  - (17) \$/lifetime kWh = Column (11)/Column (14)
  - (18) (19) Year End Spending and Energy Savings forecasts are best estimates based on the information available and may change throughout the year.
- Values in quarterly reports are preliminary and subject to change. Data is finalized in the Year-End Report.

**RHODE ISLAND ENERGY ENERGY-EFFICIENCY PROGRAMS IN RHODE ISLAND**  
**Table 2: Summary of Gas 2023 Target and Preliminary 2nd Quarter Results**

GAS PROGRAMS Sector and Program	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(16)	(10)	(11)	(12)	(17)	(13)	(14)	(15)
	Energy Savings (Annual MMBtu)			Customer Participation			Expenses (\$ 000)				Energy Savings (Lifetime MMBtu)				\$/Lifetime MMBtu		Peak Hour Gas Demand Savings (MMBtu)
	Target	Year To Date	Pct Achieved	Target	Year To Date	Pct Achieved	Budget	Year To Date	Pct Achieved	Year End Forecast		Planned	Year To Date	Pct Achieved	Year End Forecast	Planned	Year to Date
<b>Commercial and Industrial</b>																	
Large Commercial New Construction	48,823	40,338	82.6%	62	5	8.4%	\$ 2,818.7	\$ 1,980.9	70.3%	143.0%	716,705	485,723	67.8%	102.0%	\$ 3.93	\$ 4.08	20.17
Large Commercial Retrofit	94,766	7,179	7.6%	59	13	22.1%	\$ 4,639.6	\$ 426.8	9.2%	58.0%	1,016,519	95,758	9.4%	83.0%	\$ 4.56	\$ 4.46	3.59
Small Business Direct Install	9,723	1,024	10.5%	146	14	9.9%	\$ 689.8	\$ 99.5	14.4%	92.0%	130,193	20,532	15.8%	100.0%	\$ 5.30	\$ 4.85	0.51
Commercial & Industrial Multifamily	4,249	6	0.1%	488	1	0.2%	\$ 891.3	\$ 44.9	5.0%	85.0%	64,645	83	0.1%	80.0%	\$ 13.79	\$ -	0.00
Commercial Pilots							\$ -	\$ -	0.0%	0.0%							
Community Based Initiatives - C&I							\$ 31.2	\$ 0.0	0.0%	100.0%							
Commercial Workforce Development							\$ 67.5	\$ 3.6	5.3%	100.0%							
<b>SUBTOTAL</b>	<b>157,561</b>	<b>48,546</b>	<b>30.8%</b>	<b>755</b>	<b>34</b>	<b>4.5%</b>	<b>\$ 9,138.0</b>	<b>\$ 2,555.7</b>	<b>28.0%</b>	<b>89.9%</b>	<b>1,928,063</b>	<b>602,096</b>	<b>31.2%</b>	<b>91.1%</b>	<b>\$ 4.74</b>	<b>\$ 4.24</b>	<b>24.27</b>
<b>Income Eligible Residential</b>																	
Single Family - Income Eligible Services	8,230	1,755	21.3%	797	1,537	192.8%	\$ 5,429.0	\$ 1,104.3	20.3%	90.0%	169,180	35,092	20.7%	90.0%	\$ 32.09	\$ 31.47	0.88
Income Eligible Multifamily	11,075	118	1.1%	2,742	167	6.1%	\$ 3,215.4	\$ 68.4	2.1%	100.0%	172,464	1,789	1.0%	90.0%	\$ 18.64	\$ 38.24	0.06
<b>SUBTOTAL</b>	<b>19,305</b>	<b>1,872</b>	<b>9.7%</b>	<b>3,539</b>	<b>1,704</b>	<b>48.1%</b>	<b>\$ 8,644.4</b>	<b>\$ 1,172.7</b>	<b>13.6%</b>	<b>93.7%</b>	<b>341,644</b>	<b>36,881</b>	<b>10.8%</b>	<b>90.0%</b>	<b>\$ 25.30</b>	<b>\$ 31.80</b>	<b>0.94</b>
<b>Non-Income Eligible Residential</b>																	
EnergyWise	20,697	7,454	36.0%	1,716	4,946	288.3%	\$ 9,873.1	\$ 2,195.2	22.2%	95.0%	490,013	172,525	35.2%	100.0%	\$ 20.15	\$ 12.72	3.73
Energy Star® HVAC	27,030	7,088	26.2%	2,904	775	26.7%	\$ 3,586.9	\$ 1,077.1	30.0%	95.0%	517,571	142,977	27.6%	90.0%	\$ 6.93	\$ 7.53	3.54
EnergyWise Multifamily	5,358	272	5.1%	3,453	21	0.6%	\$ 1,485.4	\$ 124.2	8.4%	70.0%	110,428	6,236	5.6%	70.0%	\$ 13.45	\$ 19.92	0.14
Home Energy Reports	91,640	68,334	74.6%	130,585	135,239	103.6%	\$ 360.5	\$ 166.0	46.0%	100.0%	91,640	63,481	69.3%	100.0%	\$ 3.93	\$ 2.61	34.17
Residential New Construction	3,287	317	9.7%	460	70	15.2%	\$ 621.5	\$ 155.9	25.1%	90.0%	58,476	7,421	12.7%	85.0%	\$ 10.63	\$ 21.01	0.16
Comprehensive Marketing - Residential							\$ 69.1	\$ 42.9	62.1%	100.0%							
Community Based Initiatives - Residential							\$ 93.5	\$ -	0.0%	100.0%							
<b>SUBTOTAL</b>	<b>148,013</b>	<b>83,467</b>	<b>56.4%</b>	<b>139,118</b>	<b>141,051</b>	<b>101.4%</b>	<b>\$ 16,090.0</b>	<b>\$ 3,761.4</b>	<b>23.4%</b>	<b>92.7%</b>	<b>1,268,129</b>	<b>392,640</b>	<b>31.0%</b>	<b>92.6%</b>	<b>\$ 12.69</b>	<b>\$ 9.58</b>	<b>41.73</b>
<b>Regulatory</b>																	
EERMC							\$ 396.9	\$ 118.2	29.8%	100.0%							
OER							\$ 595.3	\$ 261.5	43.9%	100.0%							
RI Infrastructure Bank							\$ 1,262.5	\$ 632.5	50.1%	100.0%							
<b>SUBTOTAL</b>							<b>\$ 2,254.7</b>	<b>\$ 1,012.2</b>	<b>44.9%</b>	<b>100.0%</b>							
<b>TOTAL</b>	<b>324,879</b>	<b>133,885</b>	<b>41.2%</b>	<b>143,412</b>	<b>142,789</b>	<b>99.6%</b>	<b>\$ 36,127.1</b>	<b>\$ 8,502.1</b>	<b>23.5%</b>	<b>92.7%</b>	<b>3,537,835</b>	<b>1,031,616</b>	<b>29.2%</b>	<b>91.5%</b>	<b>\$ 10.21</b>	<b>\$ 8.24</b>	<b>66.94</b>

**NOTES**

- (1)(4) Targets from Docket 22-33-EE- Attachment 6, Table G-7, Refiled January 23, 2023.
  - (3) Pct Achieved is Column (2)/ Column (1).
  - (4) Participation was planned and is reported in 'net' terms which takes into account free-ridership and spillover.
  - (6) Pct Achieved is Column (5)/ Column (4).
  - (7) Approved Implementation Budget from Docket 22-33-EE, Attachment 6 Table G-3, Refiled January 23, 2023.
  - (8) Year To Date Expenses include Implementation expenses.
  - (9) Pct Achieved is Column (8)/ Column (7).
  - (13) Planned \$/lifetime MMBtu from Docket 22-33-EE- Attachment 6, Table G-5, Refiled January 23, 2023 - adjusted to reflect format of quarterly report. Program Implementation Expenses/lifetime MMBtu.
  - (14) \$/lifetime MMBtu = Column (8)\*1000/Column (11)
  - (15) Peak Hour Gas Demand Savings is a test metric in 2022 and represents a rough approximation of peak-hour gas demand impacts. Column(2) \*0.01 \*0.05
  - (16) (17) Year End Spending and Energy Savings forecasts are best estimates based on the information available and may change throughout the year.
- Values in quarterly reports are preliminary and subject to change. Data is finalized in the Year-End Report.

**RHODE ISLAND ENERGY ELECTRIC ENERGY EFFICIENCY PROGRAMS IN RHODE ISLAND**  
**Table 3: Rhode Island Energy 2023 Revolving Loan Funds**

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

**Small Business Electric Revolving Loan Fund**

<u>Income Statement</u>			<u>Income Statement</u>		
(1)	2023 Funds Available	\$10,419,391	(1)	2023 Funds Available	\$3,328,586
(2)	2023 Loan budget	\$14,000,000	(2)	2023 Loan budget	\$1,500,000
(3)	Committed	\$7,330,619	(3)	Committed	\$199,030
(4)	Paid	\$1,265,010	(4)	Paid	\$324,015
(5)	<u>Repayments</u>	<u>\$4,113,412</u>	(5)	<u>Repayments</u>	<u>\$516,163</u>
(6)	Available 6/30/23	\$5,937,174	(6)	Available 6/30/23	\$3,321,704
(7)	Outstanding loan volume	\$12,966,173	(7)	Outstanding loan volume	\$460,748
(8)	Loan defaults during period (\$)	\$0	(8)	Loan defaults during period (\$)	\$0
(9)	Arrears over 120 days at period end (\$)	\$59,324	(9)	Arrears over 120 days at period end (\$)	\$17,362
 <u>Program Impact</u>			 <u>Program Impact</u>		
(10)	Number of loans	35	(10b)	Participants	195
(10b)	Participants	28	(11)	Annual Savings (Gross MWh)	1,956
(11)	Annual Savings (Gross MWh)	2,328	(12)	Annual Savings (Net MWh)	1,688
(12)	Annual Savings (Net MWh)	1,809	(13)	Lifetime Savings (Gross MWh)	13,147
(13)	Lifetime Savings (Gross MWh)	17,851	(14)	Lifetime Savings (Net MWh)	11,120
(14)	Lifetime Savings (Net MWh)	13,913	(15)	Annual Savings (Gross kW)	336
(15)	Annual Savings (Gross kW)	313	(16)	Annual Saving (Net kW)	265
(16)	Annual Saving (Net kW)	247	(17)	Total associated incentive volume (\$)	\$726,191
(17)	Total associated incentive volume (\$)	\$670,128	(18)	Total annual estimated energy cost savings (\$)	\$298,823
(18)	Total annual estimated energy cost savings (\$)	\$320,193			

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

<u>Income Statement</u>		
(1)	2023 Funds Available	\$54,162
(2)	2023 Loan budget	\$0
(3)	Committed	\$0
(4)	Paid	\$0
(4a)	Funds Returned to OER	\$0
(5)	<u>Repayments</u>	<u>\$0</u>
(6)	Available 6/30/23	\$54,162
(7)	Outstanding loan volume	\$0
(8)	Loan defaults during period (\$)	0
(9)	Arrears over 120 days at period end (\$)	\$0
 <u>Program Impact</u>		
(10)	Number of loans	0
(10b)	Participants	0
(11)	Annual Savings (Gross MWh)	0
(12)	Annual Savings (Net MWh)	0
(13)	Lifetime Savings (Gross MWh)	0
(14)	Lifetime Savings (Net MWh)	0
(15)	Annual Savings (Gross kW)	0
(16)	Annual Saving (Net kW)	0
(17)	Total associated incentive volume (\$)	\$0
(18)	Total annual estimated energy cost savings (\$)	\$0

Notes

- 1 Amount available as of January 1, 2023. Includes line (6) "Available 12/31/22" plus line (3) "Committed" in Table E-6 and G-6 of the 2022 Year End Report.
- 2 Budget adopted by Sales Team for 2023 operations. Budget includes projections of repayments made during 2023.
- 3 As of June 30, 2023.
- 4 As of June 30, 2023. This includes all projects paid through June 30, 2023 and the OBR associated with those projects. OBR payment are processed once the associated incentive has been paid, usually in batches.
- 4a Funds returned to RI OER.
- 5 incentive has been paid, usually in batches.
- 6 Fund balance as of March 31, 2023. Committed funds are subtracted from this amount.
- 7 Total outstanding loan balance. Loans lent out that still need to be paid back. This includes loans from previous years.
- 8 Total loan value in default during period.
- 9 Total loan value in arrears for over 120 days as of June 30, 2023.
- 10 As of June 30, 2023
- Unique customer names for large business (one customer name can have multiple sub accounts as is in the case of a franchise). Customer accounts used for small business (not adjusted for net-to-gross).
- 11 As of June 30, 2023
- 12 As of June 30, 2023
- 13 As of June 30, 2023
- 14 As of June 30, 2023
- 15 As of June 30, 2023
- 16 As of June 30, 2023
- 17 Incentives paid out with loans.
- 18 Estimated energy cost savings to loan fund participants.

Values in quarterly reports are preliminary and subject to change. Data is finalized in the Year-End Report.

**RHODE ISLAND ENERGY GAS ENERGY EFFICIENCY PROGRAMS IN RHODE ISLAND**  
**Table 4: Rhode Island Energy 2023 Revolving Loan Funds**

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

<u>Income Statement</u>		
(1)	2023 Funds Available	\$591,417
(2)	2023 Loan budget	\$2,500,000
(3)	Committed	\$418,163
(4)	Paid	\$107,841
(5)	Repayments	\$378,812
(6)	<u>Available 6/30/23</u>	<u>\$444,225</u>
(7)	Outstanding loan volume	\$1,288,041
(8)	Loan defaults during period (\$)	\$0
(9)	Arrears over 120 days at period end (\$)	\$53,433
<u>Program Impact</u>		
(10)	Number of loans	15
(10b)	Participants	13
(11)	Annual Savings (Gross MMBtu)	730
(12)	Annual Savings (Net MMBtu)	689
(13)	Lifetime Savings (Gross MMBtu)	74,337
(14)	Lifetime Savings (Net MMBtu)	66,921
(15)	Total associated incentive volume (\$)	\$278,929
(16)	Total annual estimated energy cost savings (\$)	\$14,127

Notes

- 1 Amount available as of January 1, 2023. Includes line (6) "Available 12/31/22" plus line (3) "Committed" in Table E-6 and G-6 of the 2022 Year End Report.
- 2 Budget adopted by Sales Team for 2023 operations. Budget includes projections of repayments made during 2023.
- 3 As of June 30, 2023. This includes all project paid through March 31, 2023 and the OBR associated with those projects. OBR payment are processed once the associated incentive has been paid usually in batches.
- 4 As of June 30, 2023. This includes all project paid through June 30, 2023 and the OBR associated with those projects. OBR payment are processed once the associated incentive has been paid usually in batches.
- 5 As of June 30, 2023
- 6 Fund balance as of June 30, 2023. Committed funds are subtracted from this amount.
- 7 Total outstanding loan balance. Loans lent out that still need to be paid back. This includes loans from previous years.
- 8 Total loan value in default during period.
- 9 Total loan value in arrears for over 120 days as of June 30, 2023.
- 10 As of June 30, 2023
- 10b Unique customer names for large business (one customer name can have multiple sub accounts as is in the case of a franchise).
- 11 As of June 30, 2023
- 12 As of June 30, 2023
- 13 As of June 30, 2023
- 14 As of June 30, 2023
- 15 Incentives paid out with loans.
- 16 Estimated energy cost savings to loan fund participants.  
 Values in quarterly reports are preliminary and subject to change. Data is finalized in the Year-End Report.

Table 2: Summary **Table 5**  
**Rhode Island Energy**  
**2023 Test Metrics**

**Carbon Reduction<sup>1</sup>**

	<b>CO2 (Electricity)</b>	<b>CO2 (Natural Gas)</b>	<b>CO2 (Oil)</b>	<b>CO2 (Propane)</b>	<b>CO2 (Total)</b>
<b>Residential</b>	6,172	4,883	578	25	11,658
<b>Income Eligible</b>	252	110	133	9	503
<b>C&amp;I</b>	4,213	2,840	(245)	-	6,808
<b>Total</b>	10,637	7,832	467	33	18,970

NOTES

<sup>1</sup> Carbon emissions values are from AESC 2021, Appendix G Table 159.

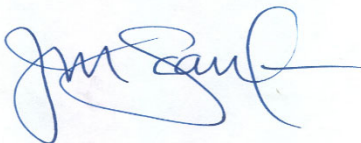
Values in quarterly reports are preliminary and subject to change. Data is finalized in the Year-End Report.



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I hereby certify that a copy of the cover letter and any materials accompanying this certificate was electronically transmitted to the individuals listed below.

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



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

August 18, 2023

Date

**Docket No. 22-33-EE – Rhode Island Energy’s Energy Efficiency Plan 2023  
Service list updated 8/4/2023**

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