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December 6, 2022

VIA HAND DELIVERY & 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
Responses to PUC Data Requests – Set 6**

Dear Ms. Massaro:

On behalf of The Narragansett Electric Company d/b/a Rhode Island Energy (“Rhode Island Energy” or the “Company”), I have enclosed the Company’s responses to the Public Utilities Commission’s Sixth Set of Data Requests in the above-referenced docket.

Thank you for your attention to this matter. If you have any questions, please contact me at (401) 709-3359.

Very truly yours,



Steven J. Boyajian

Enclosure

cc: Docket 22-33-EE Service List

Certificate of Service

I hereby certify that a copy of the cover letter and any materials accompanying this certificate were 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.



Heidi J. Seddon

December 6, 2022

Date

Docket No. 22-33-EE – Rhode Island Energy’s Energy Efficiency Plan 2023 Service list updated 10/24/22

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PUC 6-1

Request:

Please provide schedules showing the comparison of the impacts (including budgets and savings targets) of the downward revision of the C&I budget in the updated proposed budget for the 2023 Annual Energy Efficiency Plan filed on November 29, 2022 compared to the original proposed budget. Please ensure that both sets of schedules reflect the impacts of the other corrections (other than the downward revision to the C&I program) made in the November 29, 2022 updated budget.

Response:

Please see the associated attachments as a response to this request. Descriptions of each attachment are detailed below:

Attachment PUC 6-1-1 Electric Pre-Budget Update Schedules

- This attachment includes the Electric Schedules (a.k.a., Attachment 5) with all corrections and updates incorporated **except** for the C&I budget reduction.

Attachment PUC 6-1-2 Gas Pre-Budget Update Schedules

- This attachment includes the Gas Schedules (a.k.a., Attachment 6) with all corrections and updates incorporated **except** for the C&I budget reduction.

Attachment PUC 6-1-3 Electric Pre- vs. Post-Budget Update Schedules

- This attachment is a comparison document of Attachment 5 values between "Attachment PUC 6-1-1" above and "Attachment PUC 6-1-5 Attachment 5 (Updated)" described below.

Attachment PUC 6-1-4 Gas Pre- vs. Post-Budget Update Schedules

- This attachment is a comparison document of Attachment 6 values between PUC 6-1-2 above and "PUC 6-1-6 Attachment 6 (Update)" described below.

Attachment PUC 6-1-5 Attachment 5 (Updated)

- This attachment reflects the most up-to-date version of Attachment 5 which incorporates all corrections and updates, including the C&I budget reduction.
- This attachment includes highlighting to illustrate added detail to the fund balance in E-1.

Attachment PUC 6-1-6 Attachment 6 (Updated)

- This attachment reflects the most up-to-date version of Attachment 6 which incorporates all changes, including the C&I budget reduction.
- This attachment includes highlighting to illustrate added detail to the fund balance in G-1.

Table E-1
Rhode Island Energy
Electric DSM Funding Sources in 2023 by Sector
\$(000)

	Income Eligible Residential	Projections by Sector Non-Income Eligible Residential	Commercial & Industrial	Total
(1) Projected Budget (from E-2):	\$16,516.9	\$34,214.9	\$54,358.8	\$105,090.7
Sources of Other Funding:				
(2) Projected DSM Commitments at Year-End 2022:	\$0.0	\$0.0	\$0.0	\$0.0
(3) Projected Year-End 2022 Fund Balance and Interest:	\$0.0	(\$72.4)	\$39,067.2	\$38,994.8
(4) Projected FCM Net Revenue from ISO-NE:	\$335.4	\$4,027.1	\$5,763.2	\$10,125.7
(5) Total Other Funding:	\$335.4	\$3,954.7	\$44,830.4	\$49,120.5
(6) Customer Funding Required:	\$16,181.5	\$30,260.2	\$9,528.4	\$55,970.2
(7) Forecasted kWh Sales:	242,679,671	2,913,872,824	4,170,068,344	7,326,620,839
(8) Energy Efficiency Program charge per kWh, excluding uncollectible recovery:				\$0.00763
(9) Proposed SRP Opex Factor per kWh, excluding uncollectible recovery:				\$0.00000
(10) Total Proposed Energy Efficiency Charge per kWh, excluding uncollectible recovery:				\$0.00763
(11) Currently Effective Uncollectible Rate				1.30%
(12) Proposed Energy Efficiency Program Charge per kWh, including Uncollectible Recovery:				\$0.00773
(13) Currently Effective Energy Efficiency Program Charge per kwh				\$0.01222
(14) Proposed Adjustment to Reflect Fully Reconciling Funding Mechanism				(\$0.00449)

Notes:

- (1) Projected Budget from E-2 includes OER and EERMC costs allocated to each sector based on forecasted sales.
- (2) DSM Commitments are projects that are under construction with anticipated completion in 2023.
- (3) Fund balance projections include projected revenue and spend through year end with Income Eligible sector set to \$0 through projected subsidization from other sectors, minus commitments which are illustrated separately on line (2). The fund balance includes a \$1,859,499 credit from shareholder funds, with interest, to the fund balance which the Company made in January, May, and June, 2022 based on the Company's involvement in Docket 22-05-EE. The fund balance includes \$5,000,000 representing 2021 regulatory funds that were initially allocated to the Rhode Island Infrastructure Bank (RIIB) for program year 2021 but were not transferred to RIIB. The fund balance also assumes a transfer of \$5,000,000 to RIIB, approved in the 2022 Annual Plan, to be made in 2022. Note that these 2022 statutory funds have not yet been transferred to RIIB, however the Company anticipates transferring these funds in accordance with RI Gen. Laws § 39-2-1.2(n) prior to December 31, 2022.
- (4) The total projection of FCM revenue is allocated by kWh sales to each sector.
- (5) Line (2) + Line (3) + Line (4)
- (6) Line (1) - Line (5)
- (7) Per Company Forecast
- (9) Truncated to 5 decimal places
- (11) Proposed SRP Opex Factor is \$0.00000.
- (10) Line (8) + Line (9)
- (11) Uncollectible rate approved in Docket No 4770.
- (12) Line (10) ÷ (1-Line (11)), truncated to 5 decimal places
- (13) Currently Effective EE Charge includes System Reliability Factor and uncollectible recovery. This is an 11 month rate that went into effect on February 1, 2022.
- (14) Line (12) - Line (13)

Table E-2
Rhode Island Energy
2023 Electric Energy Efficiency Program Budget (\$000)

	Program Planning & Administration	Marketing	Rebates and Other Customer Incentives	Sales, Tech Assist & Training	Evaluation & Market Research	Performance Incentive	Grand Total
Non-Income Eligible Residential							
Residential New Construction	\$126.3	\$23.9	\$835.5	\$525.2	\$98.4		\$1,609.2
ENERGY STAR® HVAC	\$266.2	\$278.3	\$3,918.5	\$831.1	\$242.6		\$5,536.7
EnergyWise	\$520.4	\$355.5	\$13,055.5	\$1,480.4	\$262.8		\$15,674.6
EnergyWise Multifamily	\$128.6	\$67.8	\$984.4	\$139.9	\$26.4		\$1,347.1
Residential Consumer Products	\$122.3	\$427.6	\$1,232.1	\$688.2	\$24.4		\$2,494.5
Home Energy Reports	\$49.0	\$13.2	\$0.0	\$2,062.4	\$22.6		\$2,147.2
Residential ConnectedSolutions	\$85.8	\$11.5	\$1,503.7	\$347.7	\$22.7		\$1,971.4
Energy Efficiency Education Programs	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0		\$0.0
Residential Pilots	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0		\$0.0
Community Based Initiatives - Residential	\$37.1	\$137.7	\$105.8	\$0.0	\$0.0		\$280.6
Comprehensive Marketing - Residential	\$1.2	\$309.3	\$0.0	\$0.0	\$0.0		\$310.5
Residential Workforce Development	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0		\$0.0
Residential Performance Incentive	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$617.8	\$617.8
Subtotal - Non-Income Eligible Residential	\$1,336.8	\$1,624.7	\$21,635.5	\$6,075.0	\$699.8	\$617.8	\$31,989.6
Income Eligible Residential							
Single Family - Income Eligible Services	\$472.2	\$132.1	\$9,496.5	\$1,890.6	\$81.2		\$12,072.7
Income Eligible Multifamily	\$172.2	\$14.3	\$3,502.1	\$531.8	\$38.5		\$4,258.9
Income Eligible Workforce Development	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0		\$0.0
Income Eligible Performance Incentive	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Subtotal - Income Eligible Residential	\$644.5	\$146.4	\$12,998.6	\$2,422.5	\$119.7	\$0.0	\$16,331.6
Commercial & Industrial							
Large Commercial New Construction	\$234.8	\$214.2	\$5,737.8	\$1,866.3	\$418.5		\$8,471.6
Large Commercial Retrofit	\$765.0	\$159.8	\$17,845.3	\$4,908.3	\$775.5		\$24,453.9
Small Business Direct Install	\$273.4	\$164.9	\$6,739.7	\$297.8	\$104.1		\$7,579.8
Commercial ConnectedSolutions	\$179.1	\$6.8	\$5,340.0	\$157.3	\$0.0		\$5,683.3
Commercial Pilots	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0		\$0.0
Community Based Initiatives - C&I	\$12.3	\$45.8	\$35.3	\$0.0	\$0.0		\$93.5
Finance Costs	\$0.0	\$0.0	\$2,000.0	\$0.0	\$0.0		\$2,000.0
Commercial Workforce Development	\$0.0	\$0.0	\$0.0	\$157.5	\$0.0		\$157.5
Commercial & Industrial Performance Incentive	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$2,734.6	\$2,734.6
Subtotal - Commercial & Industrial	\$1,464.7	\$591.5	\$37,698.0	\$7,387.2	\$1,298.2	\$2,734.6	\$51,174.1
Regulatory							
OER	\$1,007.6	\$0.0	\$0.0	\$0.0	\$0.0		\$1,007.6
EERMC	\$850.3	\$0.0	\$0.0	\$0.0	\$0.0		\$850.3
Rhode Island Infrastructure Bank	\$0.0	\$0.0	\$3,737.5	\$0.0	\$0.0		\$3,737.5
Subtotal - Regulatory	\$1,857.9	\$0.0	\$3,737.5	\$0.0	\$0.0	\$0.0	\$5,595.4
Grand Total	\$5,303.8	\$2,362.6	\$76,069.6	\$15,884.6	\$2,117.6	\$3,352.4	\$105,090.7

Notes:

- (1) 2023 Large Commercial Retrofit Commitments (\$000);
- (2) For more information on Finance Costs, please refer to Attachment 2, Section 9.
- (3) OER budget is equal to the SBC collections after zeroing out EERMC and OER budgets times 3% times 60%. EERMC budget was approved by the EERMC on July 28th, 2022 for a total between gas and electric of \$1,133,775. 75% of that total has been allocated to the electric budget, in accordance with the proportions of the gas and electric budget.
- (4) Finance Costs are detailed in Table E-9. Finance Costs include an injection of \$2M into the Large C&I Revolving Loan Fund. Without this injection the Large C&I Revolving Loan Fund is projected to be negative by the end of 2023.
- (5) Demonstrations and Assessments budgets are included in specific program level budgets listed above. More information on Demonstration and Assessments descriptions, budgets, and which program level budget they are included in can be found in Attachment 8.

Table E-3
Rhode Island Energy
Derivation of the 2023 Eligible PIM and Implementation Budgets (\$000)

	Proposed 2023 Budget From E-2	Commitments	Regulatory Costs	Performance Incentive	Eligible Sector PIM Budget for Performance Incentive on E-8B	Implementation Expenses for Cost- Effectiveness on E-5
Non-Income Eligible Residential						
Residential New Construction	\$1,609.2					\$1,609.2
ENERGY STAR® HVAC	\$5,536.7					\$5,536.7
EnergyWise	\$15,674.6					\$15,674.6
EnergyWise Multifamily	\$1,347.1					\$1,347.1
Residential Consumer Products	\$2,494.5					\$2,494.5
Home Energy Reports	\$2,147.2					\$2,147.2
Residential ConnectedSolutions	\$1,971.4					\$1,971.4
Energy Efficiency Education Programs	\$0.0					\$0.0
Residential Pilots	\$0.0					\$0.0
Community Based Initiatives - Residential	\$280.6					\$280.6
Comprehensive Marketing - Residential	\$310.5					\$310.5
Residential Workforce Development	\$0.0					\$0.0
Residential Performance Incentive	\$617.8			\$617.8		\$0.0
Subtotal - Non-Income Eligible Residential	\$31,989.6	\$0.0	\$0.0	\$617.8	\$29,400.3	\$31,371.7
Income Eligible Residential						
Single Family - Income Eligible Services	\$12,072.7					\$12,072.7
Income Eligible Multifamily	\$4,258.9					\$4,258.9
Income Eligible Workforce Development	\$0.0					\$0.0
Income Eligible Performance Incentive	\$0.0			\$0.0		\$0.0
Subtotal - Income Eligible Residential	\$16,331.6	\$0.0	\$0.0	\$0.0	\$16,331.6	\$16,331.6
Commercial & Industrial						
Large Commercial New Construction	\$8,471.6	\$0.0				\$8,471.6
Large Commercial Retrofit	\$24,453.9	\$0.0				\$24,453.9
Small Business Direct Install	\$7,579.8	\$0.0				\$7,579.8
Commercial ConnectedSolutions	\$5,683.3					\$5,683.3
Commercial Pilots	\$0.0					\$0.0
Community Based Initiatives - C&I	\$93.5					\$93.5
Finance Costs	\$2,000.0					\$2,000.0
Commercial Workforce Development	\$157.5					\$157.5
Commercial & Industrial Performance Incentive	\$2,734.6			\$2,734.6		\$0.0
Subtotal - Commercial & Industrial	\$51,174.1	\$0.0	\$0.0	\$2,734.6	\$42,703.8	\$48,439.5
Regulatory						
OER	\$1,007.6		\$1,007.6			\$1,007.6
EERMC	\$850.3		\$850.3			\$850.3
Rhode Island Infrastructure Bank	\$3,737.5		\$3,737.5			\$3,737.5
Subtotal - Regulatory	\$5,595.4	\$0.0	\$5,595.4	\$0.0	\$0.0	\$5,595.4
Grand Total	\$105,090.7	\$0.0	\$5,595.4	\$3,352.4	\$88,435.7	\$101,738.3

Notes:

- (1) Eligible Sector Spending Budget = Total Budget from E-2 minus commitments, regulatory costs, pilots, assessments, Residential ConnectedSolutions, Commercial ConnectedSolutions, Performance Incentive
- (2) Eligible Sector Spending Budget does not include assessments, see Attachment 8 for assessments budgets.
- (3) Implementation Expenses = Total Budget from E-2 minus commitments and Performance Incentive.

Table E-4
Rhode Island Energy
Proposed 2023 Budget Compared to Approved 2022 Budget (\$000)

	Proposed Implementation Budget 2023	Approved Implementation Budget 2022	Difference
Non-Income Eligible Residential			
Residential New Construction	\$1,609.2	\$1,617.0	-\$7.8
ENERGY STAR® HVAC	\$5,536.7	\$4,684.4	\$852.3
EnergyWise	\$15,674.6	\$15,557.0	\$117.7
EnergyWise Multifamily	\$1,347.1	\$3,238.3	-\$1,891.2
Residential Consumer Products	\$2,494.5	\$2,796.0	-\$301.5
Home Energy Reports	\$2,147.2	\$2,639.1	-\$492.0
Residential ConnectedSolutions	\$1,971.4	\$1,822.6	\$148.8
Community Based Initiatives - Residential	\$280.6	\$255.1	\$25.5
Comprehensive Marketing - Residential	\$310.5	\$247.9	\$62.5
Subtotal - Non-Income Eligible Residential	\$31,371.7	\$32,857.4	-\$1,485.6
Income Eligible Residential			
Single Family - Income Eligible Services	\$12,072.7	\$13,275.3	-\$1,202.6
Income Eligible Multifamily	\$4,258.9	\$3,538.9	\$720.0
Subtotal - Income Eligible Residential	\$16,331.6	\$16,814.3	-\$482.7
Commercial & Industrial			
Large Commercial New Construction	\$8,471.6	\$9,034.1	-\$562.6
Large Commercial Retrofit	\$24,453.9	\$25,010.5	-\$556.7
Small Business Direct Install	\$7,579.8	\$8,883.3	-\$1,303.5
Commercial ConnectedSolutions	\$5,683.3	\$4,393.6	\$1,289.7
Community Based Initiatives - C&I	\$93.5	\$85.0	\$8.5
Commercial Pilots	\$0.0	\$0.0	\$0.0
Finance Costs	\$2,000.0	\$2,000.0	\$0.0
Commercial Workforce Development	\$157.5	\$157.5	\$0.0
Subtotal Commercial & Industrial	\$48,439.5	\$49,564.1	-\$1,124.5
Regulatory			
EERMC	\$850.3	\$766.2	\$84.1
OER	\$1,007.6	\$1,541.7	-\$534.1
Rhode Island Infrastructure Bank	\$3,737.5	\$3,737.5	\$0.0
Subtotal Regulatory	\$5,595.4	\$6,045.4	-\$450.0
TOTAL IMPLEMENTATION BUDGET	\$101,738.3	\$105,281.1	-\$3,542.9
OTHER EXPENSE ITEMS			
Commitments	\$0.0	\$0.0	\$0.0
Company Incentive	\$3,352.4	\$3,390.2	-\$37.7
Subtotal - Other Expense Items	\$3,352.4	\$3,390.2	-\$37.7
TOTAL BUDGET	\$105,090.7	\$108,671.3	-\$3,580.6

Notes:

- (1) Program Implementation Budget excludes Commitments, Company Incentive; derived on Table E-3
- (2) Total Budget includes Implementation, Commitments; illustrated on Table E-3

**Table E-5 - Primary
Rhode Island Energy
Calculation of 2023 Program Year Cost-Effectiveness
All Dollar Values in (\$000)**

	RI Test Benefit/ Cost¹	Total Benefit	Program Implementation Expenses²	Customer Contribution	Performance Incentive	¢/Lifetime kWh
Non-Income Eligible Residential						
Residential New Construction	1.78	\$4,003.5	\$1,609.2	\$634.6		¢17.1
ENERGY STAR® HVAC	2.71	\$21,708.5	\$5,536.7	\$2,464.5		¢11.3
EnergyWise	1.09	\$20,158.4	\$15,674.6	\$2,790.6		¢109.0
EnergyWise Multifamily	2.29	\$3,295.9	\$1,347.1	\$89.9		¢15.1
Home Energy Reports	2.73	\$5,862.7	\$2,147.2	\$0.0		¢8.8
Residential Consumer Products	2.28	\$7,261.1	\$2,494.5	\$683.3		¢10.0
Residential ConnectedSolutions	1.60	\$3,148.1	\$1,971.4	\$0.0		N/A
Energy Efficiency Education Programs			\$0.0			
Residential Pilots			\$0.0			
Community Based Initiatives - Residential			\$280.6			
Comprehensive Marketing - Residential			\$310.5			
Residential Workforce Development			\$0.0			
Non-Income Eligible Residential SUBTOTAL	1.69	\$65,438.1	\$31,371.7	\$6,662.9	\$617.8	¢22.8
Income Eligible Residential						
Single Family - Income Eligible Services	1.78	\$21,466.4	\$12,072.7	\$0.0		¢54.4
Income Eligible Multifamily	1.18	\$5,039.4	\$4,258.9	\$0.0		¢25.5
Income Eligible Workforce Development			\$0.0			
Income Eligible Residential SUBTOTAL	1.62	\$26,505.9	\$16,331.6	\$0.0	\$0.0	¢42.0
Commercial & Industrial						
Large Commercial New Construction	3.43	\$31,314.7	\$8,471.6	\$648.5		¢5.8
Large Commercial Retrofit	1.91	\$67,791.6	\$24,453.9	\$11,042.4		¢13.5
Small Business Direct Install	1.01	\$9,309.2	\$7,579.8	\$1,596.0		¢15.9
Commercial ConnectedSolutions	2.25	\$12,784.5	\$5,683.3	\$0.0		N/A
Commercial Pilots			\$0.0			
Community Based Initiatives - C&I			\$93.5			
Finance Costs			\$2,000.0			
Commercial Workforce Development			\$157.5			
C&I SUBTOTAL	1.88	\$121,200.0	\$48,439.5	\$13,286.9	\$2,734.6	¢12.9
Regulatory						
OER			\$1,007.6			
EERMC			\$850.3			
Rhode Island Infrastructure Bank			\$3,737.5			
Regulatory SUBTOTAL			\$5,595.4			
TOTAL	1.70	\$213,144.0	\$101,738	\$19,949.8	\$3,352.4	¢17.8

Notes:

- (1) RI Test B/C Test = Total Benefits from Table E-6 excluding Economic Benefits / Program Implementation Expenses from Table E-3 and Customer Contribution
Also includes effects of free-ridership and spillover.
- (2) For Implementation Expenses derivation, see Table E-3.

Table E-5 - Economic Benefits
Rhode Island Energy
Calculation of 2023 Economic Benefits and Job Years
All Dollar Values in (\$000)

	Program Implementation Expenses¹	RI Economic Multiplier (GDP/\$ Program Impl.)	Economic Benefits	RI Job Years Multiplier (Job Years/\$M Program Impl.)	Job Years
Non-Income Eligible Residential					
Residential New Construction	\$1,609.2	\$1.56	\$2,510.3	14.8	24
ENERGY STAR® HVAC	\$5,536.7	\$1.58	\$8,748.0	12.2	68
EnergyWise	\$15,674.6	\$1.05	\$16,458.3	12.3	193
EnergyWise Multifamily	\$1,347.1	\$1.45	\$1,953.2	14.8	20
Home Energy Reports	\$2,147.2	\$1.65	\$3,542.9	13.6	29
Residential Consumer Products	\$2,494.5	\$1.11	\$2,768.9	8.5	21
Residential ConnectedSolutions	\$1,971.4	\$0.83	\$1,636.3	6.9	14
Energy Efficiency Education Programs	\$0.0		\$0.0		-
Residential Pilots	\$0.0		\$0.0		-
Community Based Initiatives - Residential	\$280.6		\$0.0		-
Comprehensive Marketing - Residential	\$310.5		\$0.0		-
Residential Workforce Development	\$0.0		\$0.0		-
Non-Income Eligible Residential SUBTOTAL	\$31,371.7		\$37,618.0		368
Income Eligible Residential					
Single Family - Income Eligible Services	\$12,072.7	\$0.96	\$11,589.8	10.9	132
Income Eligible Multifamily	\$4,258.9	\$1.30	\$5,536.6	13.4	57
Income Eligible Workforce Development	\$0.0		\$0.0		-
Income Eligible Residential SUBTOTAL	\$16,331.6		\$17,126.4		189
Commercial & Industrial					
Large Commercial New Construction	\$8,471.6	\$2.74	\$23,212.1	19.0	161
Large Commercial Retrofit	\$24,453.9	\$5.28	\$129,116.5	51.4	1,257
Small Business Direct Install	\$7,579.8	\$1.53	\$11,597.1	12.3	93
Commercial ConnectedSolutions	\$5,683.3	\$2.19	\$12,446.4	17.5	99
Commercial Pilots	\$0.0		\$0.0		-
Community Based Initiatives - C&I	\$93.5		\$0.0		-
Finance Costs	\$2,000.0		\$0.0		-
Commercial Workforce Development	\$157.5		\$0.0		-
C&I SUBTOTAL	\$48,439.5		\$176,372.1		1,611
Regulatory					
OER	\$1,007.6		\$0.0		-
EERMC	\$850.3		\$0.0		-
Rhode Island Infrastructure Bank	\$3,737.5		\$0.0		-
Regulatory SUBTOTAL	\$5,595.4		\$0.0		-
TOTAL	\$101,738.3		\$231,116.4		2,167

Notes:

- (1) For Implementation Expenses derivation, see Table E-3.
- (2) RI Economic and Job Years Multipliers from "Economic Multipliers Update" filed by National Grid in Docket 5189.

Table E-5A
Rhode Island Energy
Calculation of 2023 Program Year Cost-Effectiveness with TRC Test
All Dollar Values in (\$000)

	TRC Benefit/ Cost ¹	Total Benefit	Program Implementation Expenses ²	Customer Contribution	Performance Incentive	¢/Lifetime kWh
Non-Income Eligible Residential						
Residential New Construction	1.45	\$3,248.6	\$1,609.2	\$634.6		17.1
ENERGY STAR® HVAC	2.12	\$16,958.2	\$5,536.7	\$2,464.5		11.3
EnergyWise	0.84	\$15,488.8	\$15,674.6	\$2,790.6		109.0
EnergyWise Multifamily	1.96	\$2,821.4	\$1,347.1	\$89.9		15.1
Home Energy Reports	1.94	\$4,159.5	\$2,147.2	\$0.0		8.8
Residential Consumer Products	1.73	\$5,512.4	\$2,494.5	\$683.3		10.0
Residential ConnectedSolutions	1.60	\$3,145.0	\$1,971.4	\$0.0		N/A
Energy Efficiency Education Programs			\$0.0			0.0
Residential Pilots			\$0.0			0.0
Community Based Initiatives - Residential			\$280.6			0.0
Comprehensive Marketing - Residential			\$310.5			0.0
Non-Income Eligible Residential SUBTOTAL	1.33	\$51,333.8	\$31,371.7	\$6,662.9	\$617.8	22.8
Income Eligible Residential						
Single Family - Income Eligible Services	1.54	\$18,557.5	\$12,072.7	\$0.0		54.4
Income Eligible Multifamily	0.98	\$4,158.8	\$4,258.9	\$0.0		25.5
Income Eligible Residential SUBTOTAL	1.39	\$22,716.3	\$16,331.6	\$0.0	\$0.0	42.0
Commercial & Industrial						
Large Commercial New Construction	2.74	\$24,948.0	\$8,471.6	\$648.5		5.8
Large Commercial Retrofit	1.52	\$54,113.9	\$24,453.9	\$11,042.4		13.5
Small Business Direct Install	0.71	\$6,537.3	\$7,579.8	\$1,596.0		15.9
Commercial ConnectedSolutions	2.25	\$12,784.5	\$5,683.3			N/A
Commercial Pilots			\$0.0			
Community Based Initiatives - C&I			\$93.5			
Finance Costs			\$2,000.0			
Commercial Workforce Development			\$157.5			
C&I SUBTOTAL	1.53	\$98,383.7	\$48,439.5	\$13,286.9	\$2,734.6	12.9
Regulatory						
OER			\$1,007.6			
EERMC			\$850.3			
Rhode Island Infrastructure Bank			\$3,737.5			
Regulatory SUBTOTAL			\$5,595.4			
TOTAL	1.38	\$172,433.8	\$101,738.3	\$19,949.8	\$3,352.4	17.8

Notes:

(1) TRC B/C Test omits societal benefits that are monetized in the RI Test, including non-embedded emissions (CO2 and NOx), and economic benefits.

Also includes effects of free-ridership and spillover.

(2) For Implementation Expenses derivation, see Table E-3.

Table E-6
Rhode Island Energy
Summary of 2023 Benefits by Program (Energy Efficiency Measures)

	Benefits (000's)																		
	Total	Total (Economic Excluded)	Capacity					Energy				Non Electric				Societal			
			Summer Generation	Capacity DRIPE	Trans	Dist	Reliability	Winter		Summer		Electric Energy DRIPE	Natural Gas	Oil	Other Resource	Non Resource	Carbon	NOx	Economic
								Peak	Off Peak	Peak	Off Peak								
Non-Income Eligible Residential																			
Residential New Construction	\$6,514	\$4,004	\$13	\$13	\$28	\$31	\$0	\$391	\$514	\$88	\$71	\$271	\$0	\$353	\$1,396	\$80	\$728	\$27	\$2,510
ENERGY STAR® HVAC	\$30,456	\$21,708	\$582	\$514	\$1,221	\$1,387	\$6	\$2,198	\$2,740	\$341	\$287	\$1,672	-\$3	\$5,476	\$17	\$521	\$4,441	\$309	\$8,748
EnergyWise	\$36,617	\$20,158	\$166	\$227	\$365	\$414	\$3	\$383	\$397	\$217	\$188	\$396	\$0	\$10,400	\$1,688	\$646	\$4,145	\$525	\$16,458
EnergyWise Multifamily	\$5,249	\$3,296	\$59	\$66	\$126	\$144	\$1	\$180	\$211	\$152	\$133	\$203	\$0	\$247	\$52	\$1,248	\$457	\$18	\$1,953
Home Energy Reports	\$9,406	\$5,863	\$243	\$984	\$363	\$413	\$62	\$612	\$526	\$237	\$183	\$538	\$0	\$0	\$0	\$0	\$1,685	\$18	\$3,543
Residential Consumer Products	\$10,030	\$7,261	\$269	\$698	\$664	\$753	\$8	\$597	\$625	\$384	\$366	\$982	\$0	\$70	\$97	\$1	\$1,723	\$26	\$2,769
Non-Income Eligible Residential SUBTOTAL	\$98,272	\$62,290	\$1,332	\$2,501	\$2,767	\$3,141	\$80	\$4,361	\$5,012	\$1,418	\$1,228	\$4,062	-\$3	\$16,545	\$3,250	\$2,495	\$13,177	\$924	\$35,982
Income Eligible Residential																			
Single Family - Income Eligible Services	\$33,056	\$21,466	\$183	\$213	\$394	\$447	\$3	\$519	\$557	\$267	\$274	\$470	\$24	\$5,341	\$410	\$9,455	\$2,629	\$280	\$11,590
Income Eligible Multifamily	\$10,576	\$5,039	\$13	\$26	\$30	\$34	\$0	\$434	\$417	\$127	\$110	\$322	-\$40	\$924	\$45	\$1,716	\$831	\$50	\$5,537
Income Eligible Residential SUBTOTAL	\$43,632	\$26,506	\$196	\$239	\$424	\$481	\$3	\$953	\$974	\$394	\$384	\$792	-\$15	\$6,265	\$456	\$11,171	\$3,460	\$329	\$17,126
Commercial & Industrial																			
Large Commercial New Construction	\$54,527	\$31,315	\$990	\$1,048	\$2,109	\$2,394	\$13	\$4,259	\$2,725	\$2,633	\$1,630	\$3,702	-\$255	\$0	\$6	\$3,693	\$6,292	\$77	\$23,212
Large Commercial Retrofit	\$196,908	\$67,792	\$1,980	\$5,276	\$4,908	\$5,568	\$64	\$5,291	\$4,367	\$3,826	\$2,704	\$8,160	-\$332	-\$36	\$0	\$12,324	\$13,535	\$157	\$129,116
Small Business Direct Install	\$20,906	\$9,309	\$186	\$566	\$476	\$540	\$7	\$1,249	\$713	\$975	\$493	\$1,847	-\$113	-\$571	\$0	\$165	\$2,775	\$0	\$11,597
C&I SUBTOTAL	\$272,341	\$108,415	\$3,156	\$6,889	\$7,493	\$8,502	\$84	\$10,799	\$7,805	\$7,434	\$4,828	\$13,709	-\$700	-\$607	\$6	\$16,181	\$22,602	\$234	\$163,926
TOTAL	\$414,245	\$197,211	\$4,685	\$9,629	\$10,684	\$12,124	\$166	\$16,113	\$13,791	\$9,246	\$6,440	\$18,563	-\$718	\$22,203	\$3,711	\$29,848	\$39,239	\$1,488	\$217,034

Table E-6A
Rhode Island Energy
Summary of 2023 Impacts by Program (Energy Efficiency Measures)

	Electric Energy Savings						Gas Savings			Oil Saved			Propane Saved			Total Savings (Electric, Gas, Oil, Propane)				
	Load Reduction in kW		MWh		MMBtu		short tons CO ₂	MMBtu		short tons CO ₂	MMBtu		short tons CO ₂	MMBtu		short tons CO ₂	MMBtu		short tons CO ₂	
	Summer	Winter	Annual	Lifetime	Annual	Lifetime	Annual ²	Annual	Lifetime	Annual ²	Annual	Lifetime	Annual ²	Annual	Lifetime	Annual ²	Annual	Lifetime	Annual ²	
Non-Income Eligible Residential																				
Residential New Construction	16	39	689	13,144	2,352	44,848	335	-	-	-	533	13,331	47	1,284	32,102	115	4,170	90,281	497	
ENERGY STAR® HVAC	640	838	4,175	71,055	14,244	242,438	1,799	(33)	(424)	(2)	11,799	211,751	959	29	429	2	26,039	454,194	2,758	
EnergyWise	466	582	3,147	16,940	10,739	57,800	1,382	-	-	-	21,158	400,307	2,055	1,799	35,499	126	33,696	493,605	3,563	
EnergyWise Multifamily	108	85	680	9,493	2,319	32,389	347	-	-	-	423	9,376	49	16	332	2	2,758	42,097	397	
Home Energy Reports	3,348	5,174	24,350	24,350	83,081	83,081	9,597	-	-	-	-	-	-	-	-	-	83,081	83,081	9,597	
Residential Consumer Products	885	481	4,473	31,684	15,261	108,105	2,784	-	-	-	159	2,711	13	57	808	4	15,478	111,624	2,801	
Non-Income Eligible Residential SUBTOTAL	5,462	7,198	37,513	166,665	127,996	568,661	16,244	(33)	(424)	(2)	34,073	637,476	3,123	3,186	69,170	249	165,222	1,274,882	19,613	
Income Eligible Residential																				
Single Family - Income Eligible Services	367	415	2,433	22,187	8,303	75,702	959	304	3,648	18	11,651	206,091	938	756	6,849	53	21,014	292,290	1,967	
Income Eligible Multifamily	89	132	1,245	16,728	4,249	57,077	491	(291)	(5,813)	(17)	2,049	37,509	165	10	250	1	6,018	89,023	639	
Income Eligible Residential SUBTOTAL	456	547	3,679	38,915	12,552	132,779	1,450	13	(2,165)	1	13,700	243,599	1,103	766	7,099	53	27,032	381,313	2,607	
Commercial & Industrial																				
Large Commercial New Construction	1,306	1,100	10,481	157,598	35,762	537,725	5,778	(2,097)	(29,621)	(162)	-	-	-	-	-	-	33,665	508,104	5,616	
Large Commercial Retrofit	6,696	6,118	38,335	262,020	130,800	894,011	22,971	(11,611)	(39,864)	(970)	(275)	(1,652)	(34)	-	-	-	118,914	852,495	21,968	
Small Business Direct Install	708	646	9,260	57,778	31,594	197,138	4,178	(2,192)	(13,320)	(145)	(4,282)	(26,025)	(391)	-	-	-	25,120	157,794	3,642	
C&I SUBTOTAL	8,711	7,864	58,076	477,396	198,156	1,628,874	32,927	(15,899)	(82,805)	(1,277)	(4,557)	(27,677)	(425)	-	-	-	177,699	1,518,393	31,226	
TOTAL	14,629	15,609	99,268	682,976	338,704	2,330,314	50,621	(15,919)	(85,393)	(1,278)	43,216	853,399	3,801	3,952	76,269	302	369,953	3,174,588	53,446	

Notes:
(1) Lifetime savings are equal to annual savings multiplied by the expected life of measures expected to be installed in each program.
(2) Annual short tons CO2 savings is based on gross annual energy savings in Year 1. The AESC 2021 study was used to inform the electric emissions factor for 2023, taking the average of summer/winter on/off-peak.

Table E-6B
Rhode Island Energy
Summary of 2023 Demand Response Benefits and Savings

	Benefits (000's)															Load Reduction (MW)	MWh Saved	
	Total	Total (Economic Excluded)	Summer Generation	Capacity				Energy				Non Electric Non Resource	Societal		Summer		Annual	Lifetime
				Capacity DRIPE	Trans	Dist	Reliability	Winter		Summer			Carbon	Economic				
								Peak	Off Peak	Peak	Off Peak					Energy DRIPE		
Non-Income Eligible Residential																		
Residential Connected Solutions	\$4,784	\$3,148	\$232	\$939	\$854	\$971	\$145	\$0	\$0	\$2	\$1	\$1	\$0	\$3	\$1,636	7.9	0.1	0.1
Commercial & Industrial																		
Commercial Connected Solutions	\$25,231	\$12,785	\$749	\$3,034	\$3,904	\$4,436	\$662	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$12,446	36.0	0.0	0.0
TOTAL	\$30,015	\$15,933	\$980	\$3,973	\$4,759	\$5,406	\$807	\$0	\$0	\$2	\$1	\$1	\$0	\$3	\$14,083	43.9	0.1	0.1

Table E-7
Rhode Island Energy
Comparison of 2023 and 2022 Goals and Tracking
17,990

	Proposed 2023 Goal		Proposed 2023 Tracking				Approved 2022				Difference			
	Lifetime Electric Energy Savings (MWh)	Active Demand Response (kW)	Annual Electric Energy Savings (MWh)	Annual Passive Summer Demand Savings (kW)	Total Net Lifetime Energy Savings (MMBtu)	Planned Unique Participants	Lifetime Electric Energy Savings (MWh)	Annual Electric Energy Savings (MWh)	Annual Passive Summer Demand Savings (kW)	Active Demand Response (kW)	Lifetime Electric Energy Savings (MWh)	Annual Electric Energy Savings (MWh)	Annual Passive Summer Demand Savings (kW)	Active Demand Response (kW)
Non-Income Eligible Residential														
Residential New Construction	13,144		689	16	90,281	410	14,947	867	74		-1,802	-177	-58	
ENERGY STAR® HVAC	71,055		4,175	640	454,194	6,371	77,717	4,620	240		-6,662	-445	400	
EnergyWise	16,940		3,147	466	493,605	9,465	13,472	2,789	424		3,468	359	42	
EnergyWise Multifamily	9,493		680	108	42,097	1,744	20,783	1,424	143		-11,290	-744	-35	
Home Energy Reports	24,350		24,350	3,348	83,081	276,390	26,852	26,852	3,692		-2,503	-2,503	-344	
ENERGY STAR® Lighting	0		0	0	0	0	0	0	0		0	0	0	
Residential Consumer Products	31,684		4,473	885	111,624	26,274	47,554	6,885	1,118		-15,871	-2,412	-233	
Residential ConnectedSolutions		7,878				6,900				7,365		0		513
Non-Income Eligible Residential SUBTOTAL	166,665	7,878	37,513	5,462	1,274,882	327,554	201,325	43,435	5,691	7,365	-34,660	-5,922	-229	513
Income Eligible Residential														
Single Family - Income Eligible Services	22,187		2,433	367	292,290	3,111	38,506	3,314	480		-16,319	-880	-112	
Income Eligible Multifamily	16,728		1,245	89	89,023	2,786	24,309	1,538	49		-7,581	-292	40	
Income Eligible Residential SUBTOTAL	38,915	0	3,679	456	381,313	5,897	62,816	4,851	529	0	-23,900	-1,173	-73	0
Commercial & Industrial														
Large Commercial New Construction	157,598		10,481	1,306	508,104	45	192,343	12,589	1,745		-34,745	-2,108	-439	
Large Commercial Retrofit	262,020		38,335	6,696	852,495	2,142	312,931	41,132	8,490		-50,912	-2,797	-1,793	
Small Business Direct Install	57,778		9,260	708	157,794	339	64,394	9,976	904		-6,616	-716	-196	
Commercial ConnectedSolutions		36,000				216				32,400				3,600
C&I SUBTOTAL	477,396	36,000	58,076	8,711	1,518,393	2,741	569,668	63,696	11,139	32,400	-92,272	-5,620	-2,428	3,600
TOTAL	682,976	43,878	99,268	14,629	3,174,588	336,192	833,808	111,983	17,359	39,765	-150,832	-12,715	-2,730	4,113

Notes:
(1) Planned 2023 participation takes into account net-to-gross and estimates unique participation by taking into account 2021 unique customer accounts to savings ratios. Therefore the number of planned measures may be more than the estimated participants shown. For measure counts please view the widget tables in Attachments 1 and 2. Table E-7 no longer includes a comparison to the previous year's participation. Due to the way unique participation is calculated it is not possible to compare year-over-year results.
(2) There are additional Low Income participants in Residential New Construction.
(3) A customer can participate in more than one program, for example, Residential Consumer Products and Home Energy Reports, therefore the population reached can be more than 100%.

Table E-8A
Rhode Island Energy
2023 Electric PIM Benefits, Allocations, and Categorization (\$000)

	(1)	(2)	(3)			(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)		(14)	(15)	(16)	(17)	(18)
	Summer Generation	Capacity DRIPE	Capacity		Reliability	Winter Peak Energy	Winter Off Peak Energy	Energy		Electric Energy DRIPE	Utility NEIs	Utility NEIs	Natural Gas and DRIPE	Non Electric		Propane and Water	Non Resource	Carbon	Societal		
			Transmission	Distribution				Summer Peak Energy	Summer Off Peak Energy					Oil and Oil DRIPE					NOx	Economic	
Non-Income Eligible Residential																					
Residential New Construction	\$13	\$13	\$28	\$31	\$0	\$391	\$514	\$88	\$71	\$271	\$0	\$0	\$353	\$1,296	\$80	\$728	\$27	\$2,510			
ENERGY STAR® HVAC	\$582	\$514	\$1,221	\$1,387	\$6	\$2,198	\$2,740	\$341	\$287	\$1,672	\$0	-\$3	\$5,476	\$17	\$521	\$4,441	\$309	\$8,748			
EnergyWise	\$166	\$227	\$365	\$414	\$3	\$383	\$397	\$217	\$188	\$396	\$0	\$0	\$10,400	\$1,688	\$646	\$4,145	\$525	\$16,458			
EnergyWise Multifamily	\$59	\$66	\$126	\$144	\$1	\$180	\$211	\$152	\$133	\$203	\$0	\$0	\$247	\$52	\$1,248	\$457	\$18	\$1,953			
Home Energy Reports	\$243	\$984	\$363	\$413	\$62	\$612	\$526	\$237	\$183	\$538	\$0	\$0	\$0	\$0	\$0	\$1,685	\$18	\$3,543			
Residential Consumer Products	\$269	\$698	\$664	\$753	\$8	\$597	\$625	\$384	\$366	\$982	\$0	\$0	\$70	\$97	\$1	\$1,723	\$26	\$2,769			
Non-Income Eligible Residential SUBTOTAL	\$1,332	\$2,501	\$2,767	\$3,141	\$80	\$4,361	\$5,012	\$1,418	\$1,228	\$4,062	\$0	-\$3	\$16,545	\$3,250	\$2,495	\$13,177	\$924	\$35,982			
Income Eligible Residential																					
Single Family - Income Eligible Services	\$183	\$213	\$394	\$447	\$3	\$519	\$557	\$267	\$274	\$470	\$239	\$24	\$5,341	\$410	\$9,216	\$2,629	\$280	\$11,590			
Income Eligible Multifamily	\$13	\$26	\$30	\$34	\$0	\$434	\$417	\$127	\$110	\$322	\$5	-\$40	\$924	\$45	\$1,711	\$831	\$50	\$5,537			
Income Eligible Residential SUBTOTAL	\$196	\$239	\$424	\$481	\$3	\$953	\$974	\$394	\$384	\$792	\$244	-\$15	\$6,265	\$456	\$10,928	\$3,460	\$329	\$17,126			
Commercial & Industrial																					
Large Commercial New Construction	\$990	\$1,048	\$2,109	\$2,394	\$13	\$4,259	\$2,725	\$2,633	\$1,630	\$3,702	\$0	-\$255	\$0	\$6	\$3,693	\$6,292	\$77	\$23,212			
Large Commercial Retrofit	\$1,980	\$5,276	\$4,908	\$5,568	\$64	\$5,291	\$4,367	\$3,826	\$2,704	\$8,160	\$0	-\$332	-\$36	\$0	\$12,324	\$13,535	\$157	\$129,116			
Small Business Direct Install	\$186	\$566	\$476	\$540	\$7	\$1,249	\$713	\$975	\$493	\$1,847	\$0	-\$113	-\$571	\$0	\$165	\$2,775	\$0	\$11,597			
C&I SUBTOTAL	\$3,156	\$6,889	\$7,493	\$8,502	\$84	\$10,799	\$7,805	\$7,434	\$4,828	\$13,709	\$0	-\$700	-\$607	\$6	\$16,181	\$22,602	\$234	\$163,926			
Included in PIM? (Y/N)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
Percent Application in PIM	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	50%	50%	50%	0%	0%	0%	0%	0%	
Category	Electric Utility System Benefits	Electric Utility System Benefits	Electric Utility System Benefits	Electric Utility System Benefits	Electric Utility System Benefits	Electric Utility System Benefits	Electric Utility System Benefits	Electric Utility System Benefits	Electric Utility System Benefits	Electric Utility System Benefits	Electric Utility System Benefits	Electric Utility System Benefits	Resource Benefits	Resource Benefits	Resource Benefits	NA	NA	NA	NA	NA	

Notes
From 2023 Benefit-Cost Model, Tab ERA-PIM Benefits

Table E-8B
Rhode Island Energy
2023 Electric PIM Costs

	(1)	(2)	(3)
	Costs (\$)		
	Eligible Spending Budget from Table E-3	Regulatory Costs	Total Costs for PIM Calculations
Non-Income Eligible Residential SUBTOTAL	\$29,400	\$283	\$29,684
Income Eligible Residential SUBTOTAL	\$16,332	\$283	\$16,615
C&I SUBTOTAL	\$42,704	\$283	\$42,987
Included in PIM? (Y/N)	Y	Y	Y

Notes

Source is 2023 Benefit-Cost Model, Tab E8B-PIM Costs. Regulatory costs allocated equally to each sector. OER and RIIB costs have been omitted from Regulatory Costs.

Table E-8C
Rhode Island Energy
2023 Electric PIM and SQA

Sector PI = min(Payout Cap(j), (Actual Net Benefits* Design Payout Rate(g) * Payout Rate Adjustment(i)))

Sector	Planned Eligible Benefits		Planned Eligible Costs	Planned Eligible Net Benefits (4)	Design Performance Achievement	Design Performance Payout	Design Payout Rate	Design Payout Rate Thresholds	Payout Rate Adjustments	Payout Cap	Service Quality Metric
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)
	100% Electric Utility System Benefits	50% Resource Benefits	Eligible Spending Budget + Regulatory Costs	=(a)+(b)-(c)	Net benefits at which design incentive pool is achieved	Set by PUC	=(f)/(e)	Achievement levels at which the Payout Rate Adjustments in (i) will be applied—Set by PUC	Factor to adjust Design Payout Rate for if final program achievement fall within the ranges in (h)—Set by PUC	=1.25*(f)	Yes if (d) ≤ 0; No if (d) >0
										Cap on sector payout regardless of achievement in sector	See Service Quality Table
Non-Income Eligible Residential	\$25,902,121	\$9,895,703	\$29,683,759	\$6,114,064	\$6,114,064	\$617,841	10.1%	a. Achievement < 25% b. 25% ≤ Achievement < 50% c. 50% ≤ Achievement < 75% d. 75% ≤ Achievement • Spending > Planned Eligible Costs	a. 0.0 b. Achievement/100 + 0.1 c. Achievement/100 + 0.25 d. 1.0 • See Boundary Rules	\$772,301	No
Income Eligible Residential	\$5,083,335	\$3,352,694	\$16,615,042	-\$8,179,013	\$2,000,000	\$500,000	25.00%			\$625,000	Yes
Commercial & Industrial	\$70,699,159	-\$650,700	\$42,987,243	\$27,061,215	\$27,061,215	\$2,734,599	10.1%			\$3,418,249	No

Sector SQA = Maximum Service Adjustment(e) * Service Achievement Scaling Factor(g)

	Planned Eligible Benefits		Planned Eligible Costs	Design Service Achievement	Maximum Service Adjustment	Service Adjustment Thresholds	Service Achievement Scaling Factors	Achievement Cost Adjustment
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
	100% Electric Utility System Benefits	50% Resource Benefits	Eligible Spending Budget + Regulatory Costs	=(a)+(b)	Maximum downward adjustment to earned incentive—Set by PUC	Adjusted Achievement levels at which the Service Adjustments in (e) will be applied; adjustment is calculated in (h)	Factor to scale program achievement that fall within the ranges in (f)	Actual-cost-based adjustment factor applied to achievement. Result is if the difference between achievement and cost variances are greater than 5%, the Actual Achievement will be adjusted for use in
Non-Income Eligible Residential	\$25,902,121	\$9,895,703	\$29,683,759	\$35,797,824	\$0	a. Adjusted Achievement < 65% b. 65% ≤ Adjusted Achievement < 95% c. 95% ≤ Adjusted Achievement	a. 1 b. (95-Adjusted Achievement)/3 0 c. 0	Performance Variance = "Actual Benefits" / "Design Achievement" - "Spending" / "Planned Eligible Cost"
Income Eligible Residential	\$5,083,335	\$3,352,694	\$16,615,042	\$8,436,029	\$326,670			If the absolute value (Performance Variance) ≤ 0.05, Then Adjusted Achievement = Actual Achievement Else Adjusted Achievement = Actual Achievement * (1+ Performance Variance)
Commercial & Industrial	\$70,699,159	-\$650,700	\$42,987,243	\$70,048,459	\$0			

Table E-9
Rhode Island Energy
Revolving Loan Fund Projections

Large C&I Revolving Loan Fund			Small Business Revolving Loan Fund		
(1)	Total Loan Fund Deposits Through 2022	\$ 20,547,780	(1)	Total Loan Fund Deposits Through 2022	\$ 3,303,570
(2)	Current Loan Fund Balance	\$ 4,360,123	(2)	Current Loan Fund Balance	\$ 2,726,897
	<i>Loans Paid Year-To-Date</i>	\$ 2,330,246		<i>Loans Paid Year-To-Date</i>	\$ 167,275
	<i>Repayments Year-To-Date</i>	\$ 2,572,300		<i>Repayments Year-To-Date</i>	\$ 328,808
(3)	Projected Additional Loans by Year End 2022	\$ 4,880,000	(3)	Projected Additional Loans by Year End 2022	\$ 504,725
(4)	Projected Additional Repayments by Year End 2022	\$ 4,561,651	(4)	Projected Additional Repayments by Year End 2022	\$ 317,402
(5)	Projected Year End Loan Fund Balance 2022	\$ 4,041,773	(5)	Projected Year End Loan Fund Balance 2022	\$ 2,539,574
(6)	2023 Fund Injection	\$ 2,000,000	(6)	2023 Fund Injection	\$ -
(7)	Projected Loan Fund Balance, January 2023	\$ 6,041,773	(7)	Projected Loan Fund Balance, January 2023	\$ 2,539,574
(8)	Projected Repayments throughout 2023	\$ 4,762,036	(8)	Projected Repayments throughout 2023	\$ 147,982
(9)	Estimated Loans in 2023	\$ 9,100,000	(9)	Estimated Loans in 2023	\$ 1,000,000
(10)	Projected Year End Loan Fund Balance 2023	\$ 1,703,810	(10)	Projected Year End Loan Fund Balance 2023	\$ 1,687,556

Public Sector Revolving Loan Fund			Efficient Buildings Fund		
(1)	Total Loan Fund Deposits Through 2022	\$ 53,994	(1)	Energy Efficiency Funds allocated to EBF through 2021	\$ 22,087,113
(2)	Current Loan Fund Balance	\$ 46,798	(2)	Total EBF Loans Outstanding	\$ 55,075,045
	<i>Funds returned to OER</i>	\$ -			
	<i>Repayments Year-To-Date</i>	\$ 5,388			
(3)	Projected Additional Loans by Year End	\$ -			
(4)	Projected Additional Repayments by Year End	\$ -			
(5)	Projected Year End Loan Fund Balance 2022	\$ 46,798			
(6)	2023 Fund Injection	\$ -			
(7)	Projected Loan Fund Balance, January 2023	\$ 46,798			
(8)	Projected Repayments throughout 2023	\$ -			
(9)	Estimated Loans in 2023	\$ -			
(10)	Projected Year End Loan Fund Balance 2023	\$ 46,798			

Notes

- (1) Funding injections since loan funds began. Net of any adjustments.
- (2) Current Loan Fund Balance is through May 2022; it includes all loans and repayments made by May 2022. Public Sector Revolving Loan Fund reduced by transfers to RI PEP Incentives. EBF reports in terms of loans outstanding.
- (3) Projected Loans from May to Year-End 2022 is estimated based on projects currently under construction that are anticipated to be paid out by year-end. It is difficult to project this amount accurately due to the fact that projects could be delayed by a month or two resulting in payment occurring in 2023 instead of 2022.
- (4) Projected Repayments from June to Year-End 2022 is estimated based on the monthly average amount of repayments.
- (5) Equal to (2) - (3) + (4).
- (6) Fund injection of \$2M for the Large C&I Revolving Loan Fund is included under the Finance Cost line in table E-2.
- (7) Equal to (5) + (6).
- (8) Assumption based on monthly average repayments in 2022 over 12 month period; repayments accumulate over time and may vary widely.
- (9) Amount projected to be lent to customers in 2023
- (10) Equal to (7) + (8) - (9).

Efficient Buildings Fund - To updated for the second draft of the 2023 Annual Plan. The 2023 Annual Plan only includes two values for EBF: 1) The Energy Efficiency Funds allocated to EBF through 2021. 2) Total EBF Loans Outstanding as of July 2022. Additional information is not available because RIIB has informed the Company that, commencing with the 2022 Plan, it will not be providing forward looking projections to the Company regarding EBF. The Company is therefore unable to provide any future projections in the 2023 Annual Plan regarding EBF. The state's System Reliability and Least Cost procurement statute (amended in 2021) directs that \$5M shall be transferred to RIIB. However, RIIB has not informed the Company the statutory \$5M transfer to RIIB in 2023 will go to EBF.

Table E-10
Rhode Island Energy
Rhode Island Electric Energy Efficiency 2003 - 2023
\$(000)

Electric	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013 ⁽¹⁾	2014	2015	2016	2017	2018	2019	2020	2021	2022 ⁽⁵⁾	2023 ⁽⁶⁾
Energy Efficiency Budget (\$Million) ⁽¹⁾	\$23.1	\$22.6	\$23.1	\$22.4	\$22.5	\$21.0	\$32.4	\$37.6	\$59.2	\$61.4	\$77.5	\$87.0	\$86.6	\$87.5	\$94.6	\$94.6	\$107.5	\$111.1	\$116.8	\$108.7	\$105.1
Spending Budget (\$Million) ⁽²⁾	\$16.3	\$15.8	\$17.6	\$16.5	\$16.4	\$14.7	\$23.5	\$28.8	\$45.3	\$55.3	\$64.8	\$80.6	\$77.3	\$77.6	\$88.5	\$88.7	\$98.1	\$101.1	\$104.8	\$93.0	\$88.4
Actual Expenditures (\$Million) ⁽³⁾	\$22.8	\$19.5	\$23.4	\$23.7	\$21.9	\$19.2	\$31.7	\$29.7	\$40.0	\$50.7	\$72.9	\$85.3	\$87.4	\$78.4	\$94.8	\$93.0	\$100.7	\$88.2	\$94.6		
Incentive Percentage ⁽⁴⁾	4.4%	4.4%	4.4%	4.4%	4.4%	4.4%	4.4%	4.4%	4.4%	4.4%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	N/A	N/A	N/A
Target Incentive	\$712,557	\$781,959	\$774,689	\$726,627	\$723,000	\$647,689	\$1,035,943	\$1,267,043	\$1,992,513	\$2,434,131	\$3,240,747	\$4,032,000	\$3,867,400	\$3,878,087	\$4,425,528	\$4,436,022	\$4,905,009	\$5,054,448	\$5,500,000	\$3,390,165	\$3,352,440
Earned Incentive	\$712,557	\$604,876	\$795,648	\$760,623	\$716,075	\$675,282	\$1,085,888	\$1,333,996	\$1,929,273	\$2,469,411	\$2,997,681	\$4,223,321	\$4,533,360	\$4,128,034	\$4,829,847	\$4,940,402	\$3,290,237	\$3,242,675	\$3,464,590		
Annual Summer Demand kW Savings Goal Achieved (%)				106%	106%	113%	142%	78%	71%	83%	114%	78%	112%	101%	103%	116%	98%	79%	83%		
Annual MWh Energy Savings Goal Achieved (%)				111%	102%	111%	115%	107%	94%	93%	99%	105%	115%	107%	115%	110%	98%	88%	95%		
Energy Efficiency Program Charge (\$/kWh) ⁽⁷⁾	\$0.00200	\$0.00200	\$0.00200	\$0.00200	\$0.00200	\$0.00200	\$0.00320	\$0.00320	\$0.00526	\$0.00592	\$0.00876	\$0.00911	\$0.00953	\$0.01077	\$0.01124	\$0.00972	\$0.01121	\$0.01323	\$0.01113	\$0.01213	\$0.00773
Annual Cost to 500 kWh/month Residential Customer w/o tax ⁽⁸⁾	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00	\$19.20	\$19.20	\$31.56	\$35.52	\$52.56	\$54.66	\$57.18	\$64.62	\$67.44	\$58.32	\$67.26	\$79.38	\$66.78	\$72.78	\$46.38
Annual Cost to 500 kWh/month Residential Customer w/ tax ⁽⁹⁾	\$12.50	\$12.50	\$12.50	\$12.50	\$12.50	\$12.50	\$20.00	\$20.00	\$32.88	\$37.00	\$54.75	\$56.94	\$59.56	\$67.31	\$70.25	\$60.75	\$70.06	\$82.69	\$69.56	\$75.81	\$48.31

Notes:
(1) Energy Efficiency Budget includes total expenditures and commitments. Includes all demand side management program-related expenses, including rebates, administration and general expenses, evaluation, commitments for future years and Company incentive.
(2) Prior to 2017, Spending Budget Eligible for Shareholder Incentive includes: Implementation, Administration, General, and Evaluation Expenses; excludes EERMC and OER Costs, Commitments, Copays, and Outside Finance Costs. Beginning in 2017, Outside Finance Costs were also included. Beginning in 2018 Pilot expenses were also excluded. Beginning in 2019 ConnectedSolutions expenses and assessments were also excluded.
(3) Actual Expenditures is actual spend during calendar year. Includes expenditures and commitments. Includes all demand side management program-related expenses, including rebates, administration and general expenses, evaluation, commitments for future years and Company incentive.
(4) In the Company's gas and electric rate cases in docket 4323, the PUC approved the uncollectibles gross-up in the electric EE Program Charge effective February 1, 2013, and a new rate applicable to the gross-up of the gas EE Program Charge, effective February 1, 2013.
(5) 2022 values are planned.
(6) 2023 values are proposed.
(7) Beginning in 2012, the EE Program Charge includes the System Reliability Factor. It does not include the \$0.0003 renewables per RI General Laws §39-2-1.2 and Order #19608, which appears on customer bills. In 2022, the surcharge was in effect for an 11 month period beginning February 1, 2022.
(8) Reflects the annual cost excluding Gross Earnings Tax
(9) Reflects the annual cost including Gross Earnings Tax
(10) Incentive percentage not applicable for 2021 and going forward due to new performance incentive mechanism developed for the 2021 Annual Plan. See Section 11 of the Main Text of the 2023 Annual Plan for additional detail

Table G-1
Rhode Island Energy
Gas DSM Funding Sources in 2023 by Sector
\$(000)

	<u>Projections by Sector</u>			Total
	Income Eligible Residential	Non-Income Eligible Residential	Commercial & Industrial	
(1) Projected Budget (from G-2):	\$8,756.5	\$17,212.5	\$10,979.9	\$36,948.8
Sources of Other Funding:				
(2) Projected Year-End 2022 Fund Balance and Interest:	\$0.0	(\$4,419)	\$6,237.8	\$1,818.3
(3) Total Other Funding:	\$0.0	(\$4,419.5)	\$6,237.8	\$1,818.3
(4) Customer Funding Required:	\$8,756.5	\$21,632.0	\$4,742.1	\$35,130.5
(5) Forecasted Firm Dth Volume	1,751,260	18,641,723	19,659,477	40,052,460
(6) Forecasted Non Firm Dth Volume			237,451	237,451
(7) Less: Exempt DG Customers			(1,562,431)	(1,562,431)
(8) Forecasted Dth Volume:	1,751,260	18,641,723	18,334,497	38,727,480
Average Energy Efficiency Program Charge per Dth				
(9) excluding Uncollectible Recovery:				\$0.907
(10) Proposed Energy Efficiency Program Charge per Dth excluding Uncollectible Recovery	\$1.168	\$1.168	\$0.616	
(11) Currently Effective Uncollectible Rate	<u>1.91%</u>	<u>1.91%</u>	<u>1.91%</u>	
(12) Proposed Energy Efficiency Program Charge per Dth, including Uncollectible Recovery:	\$1.190	\$1.190	\$0.6270	
(13) Currently Effective Energy Efficiency Program Charge per Dth	\$1.354	\$1.354	\$0.8860	
(14) Adjustment to Reflect Fully Reconciling Funding Mechanism	(\$0.164)	(\$0.164)	(\$0.259)	

Notes

(1) Projected Budget from G-2 includes OER and EERMC costs allocated to each sector based on forecasted volume.

(2) Fund Balance projections include projected revenue and spend through year-end with Residential and C&I sector subsidies applied to Income Eligible as detailed in the 2023 EE Plan Table G-1. The fund balance includes a \$562,736 credit from shareholder funds to the fund balance, with interest, which the Company made in May and June, 2022 based on the Company's involvement in Docket 22-05-EE.

(10) The proposed EE program charges allow for the use of collections from one sector to fund energy efficiency services in other sectors that would otherwise not be supported with the proposed collection rates.

(11) Uncollectible rate approved in Docket No. 4770.

(13) This is an 11 month rate that went into effect February 1, 2022.

Table G-2
Rhode Island Energy
2023 Gas Energy Efficiency Program Budget (\$000)

	Program Planning & Administration	Marketing	Rebates and Other Customer Incentives	Sales, Tech Assist & Training	Evaluation & Market Research	Performance Incentive	Grand Total
Non-Income Eligible Residential:							
ENERGY STAR® HVAC	\$130.8	\$207.0	\$2,972.0	\$254.2	\$29.1	\$0.0	\$3,593.1
EnergyWise	\$297.3	\$62.4	\$8,021.6	\$1,388.0	\$175.8	\$0.0	\$9,945.1
EnergyWise Multifamily	\$73.7	\$50.8	\$1,167.3	\$180.6	\$15.5	\$0.0	\$1,487.8
Home Energy Reports	\$8.8	\$0.0	\$0.0	\$349.3	\$2.4	\$0.0	\$360.5
Residential Pilots	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Residential New Construction	\$56.0	\$2.1	\$358.5	\$166.5	\$39.2	\$0.0	\$622.3
Comprehensive Marketing - Residential	\$0.1	\$69.0	\$0.0	\$0.0	\$0.0	\$0.0	\$69.1
Community Based Initiatives - Residential	\$12.3	\$45.8	\$35.3	\$0.0	\$0.0	\$0.0	\$93.5
Residential Workforce Development	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Residential Performance Incentive	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Subtotal - Non-Income Eligible Residential	\$579.0	\$437.2	\$12,554.6	\$2,338.6	\$261.9	\$0.0	\$16,171.4
Income Eligible Residential:							
Single Family - Income Eligible Services	\$201.8	\$22.0	\$4,164.3	\$1,015.4	\$34.1	\$0.0	\$5,437.7
Income Eligible Multifamily	\$120.0	\$8.6	\$2,653.7	\$410.7	\$28.0	\$0.0	\$3,221.0
Income Eligible Workforce Development	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Income Eligible Performance Incentive	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Subtotal - Income Eligible Residential	\$321.8	\$30.7	\$6,818.0	\$1,426.1	\$62.0	\$0.0	\$8,658.6
Commercial & Industrial							
Large Commercial New Construction	\$104.0	\$104.7	\$1,524.9	\$863.2	\$225.0	\$0.0	\$2,821.8
Large Commercial Retrofit	\$227.9	\$172.8	\$2,272.5	\$1,761.7	\$209.2	\$0.0	\$4,644.1
Small Business Direct Install	\$14.3	\$16.2	\$598.6	\$59.6	\$2.4	\$0.0	\$691.1
Commercial & Industrial Multifamily	\$38.4	\$25.4	\$659.7	\$161.6	\$7.6	\$0.0	\$892.6
Commercial Pilots	\$2.4	\$0.0	\$0.0	\$10.0	\$0.0	\$0.0	\$12.4
Finance Costs	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Community Based Initiatives - C&I	\$4.1	\$15.3	\$11.8	\$0.0	\$0.0	\$0.0	\$31.2
Commercial Workforce Development	\$0.0	\$0.0	\$0.0	\$67.5	\$0.0	\$0.0	\$67.5
Commercial & Industrial Performance Incentive	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$795.2	\$795.2
Subtotal - Commercial & Industrial	\$391.1	\$334.3	\$5,067.4	\$2,923.6	\$444.3	\$795.2	\$9,955.9
Regulatory							
EERMC	\$283.4	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$283.4
OER	\$616.9	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$616.9
Rhode Island Infrastructure Bank	\$0.0	\$0.0	\$1,262.5	\$0.0	\$0.0	\$0.0	\$1,262.5
Subtotal - Regulatory	\$900.4	\$0.0	\$1,262.5	\$0.0	\$0.0	\$0.0	\$2,162.9
Grand Total	\$2,192.4	\$802.1	\$25,702.6	\$6,688.3	\$768.2	\$795.2	\$36,948.8

Notes:

- (1) OER budget is equal to the SBC collections after zeroing out EERMC and OER budgets times 3% times 60%. EERMC budget was approved by the EERMC on July 28th, 2022 for a total between gas and electric of \$1,133,775. 25% of that total has been allocated to the gas budget, in accordance with the proportions of the gas and electric budget. This will be updated in the final draft.
- (2) Demonstrations and Assessments are included in specific program level budgets listed above. More information on Demonstration and Assessments descriptions, budgets, and which program level budget they are included in can be found in Attachment 8.
- (3) Based on the state's System Reliability and Least Cost procurement statute (amended in 2021), funds transferred to the Rhode Island Infrastructure Bank are now classified under Regulatory costs.

Table G-3
Rhode Island Energy
Derivation of the 2023 Eligible PIM & Implementation Budgets (\$000)

	Proposed 2023 Budget From G-2 (\$000)	Outside Finance and Stakeholder Oversight Costs (\$000)	Performance Incentive (\$000)	Eligible Sector PIM Budget for Performance Incentive on G-8 (\$000) ¹	Implementation Expenses for Cost-Effectiveness on G-5 (\$000) ²
Non-Income Eligible Residential					
ENERGY STAR® HVAC	\$3,593.1				\$3,593.1
EnergyWise	\$9,945.1				\$9,945.1
EnergyWise Multifamily	\$1,487.8				\$1,487.8
Home Energy Reports	\$360.5				\$360.5
Residential Pilots	\$0.0				\$0.0
Residential New Construction	\$622.3				\$622.3
Comprehensive Marketing - Residential	\$69.1				\$69.1
Community Based Initiatives - Residential	\$93.5				\$93.5
Residential Workforce Development	\$0.0				\$0.0
Residential Performance Incentive	\$0.0		\$0.0		\$0.0
Subtotal - Non-Income Eligible Residential	\$16,171.4	\$0.0	\$0.0	\$16,171.4	\$16,171.4
Income Eligible Residential					
Single Family - Income Eligible Services	\$5,437.7				\$5,437.7
Income Eligible Multifamily	\$3,221.0				\$3,221.0
Income Eligible Workforce Development	\$0.0				\$0.0
Income Eligible Performance Incentive	\$0.0		\$0.0		\$0.0
Subtotal - Income Eligible Residential	\$8,658.6	\$0.0	\$0.0	\$8,658.6	\$8,658.6
Commercial & Industrial					
Large Commercial New Construction	\$2,821.8				\$2,821.8
Large Commercial Retrofit	\$4,644.1				\$4,644.1
Small Business Direct Install	\$691.1				\$691.1
Commercial & Industrial Multifamily	\$892.6				\$892.6
Commercial Pilots	\$12.4				\$12.4
Finance Costs	\$0.0				\$0.0
Community Based Initiatives - C&I	\$31.2				\$31.2
Commercial Workforce Development	\$67.5				\$67.5
Commercial & Industrial Performance Incentive	\$795.2		\$795.2		\$0.0
Subtotal - Commercial & Industrial	\$9,955.9	\$0.0	\$795.2	\$9,095.9	\$9,160.7
Regulatory					
EERMC	\$283.4	\$283.4			\$283.4
OER	\$616.9	\$616.9			\$616.9
Rhode Island Infrastructure Bank	\$1,262.5	\$1,262.5			\$1,262.5
Subtotal - Regulatory	\$2,162.9	\$2,162.9			\$2,162.9
Grand Total	\$36,948.8	\$2,162.9	\$795.2	\$33,925.9	\$36,153.6

Notes:

- (1) Eligible Sector Spending Budget for Performance Incentive = Budget from G-2 minus Regulatory Costs, Pilots, Assessments, and Performance Incentive.
- (2) Implementation Expenses = Budget from G-2 minus Performance Incentive.
- (3) Eligible Sector Spending Budget does not include assessments, see Attachment 8 for assessments budgets.

Table G-4
Rhode Island Energy
Proposed 2023 Budget Compared to Approved 2022 Budget (\$000)

	Proposed Implementation Budget 2023	Approved Implementation Budget 2022	Difference
Non-Income Eligible Residential			
ENERGY STAR [®] HVAC	\$3,593.1	\$3,650.5	-\$57.4
EnergyWise	\$9,945.1	\$8,575.0	\$1,370.1
EnergyWise Multifamily	\$1,487.8	\$1,488.6	-\$0.8
Home Energy Reports	\$360.5	\$441.5	-\$81.0
Residential Pilots	\$0.0	\$0.0	\$0.0
Residential New Construction	\$622.3	\$566.4	\$55.9
Comprehensive Marketing - Residential	\$69.1	\$68.0	\$1.1
Community Based Initiatives - Residential	\$93.5	\$85.0	\$8.5
Residential Performance Incentive	\$0.0	\$0.0	\$0.0
Subtotal - Non-Income Eligible Residential	\$16,171.4	\$14,875.0	\$1,296.3
Income Eligible Residential			
Single Family - Income Eligible Services	\$5,437.7	\$6,370.0	-\$932.4
Income Eligible Multifamily	\$3,221.0	\$2,947.5	\$273.4
Income Eligible Performance Incentive	\$0.0	\$0.0	\$0.0
Subtotal - Income Eligible Residential	\$8,658.6	\$9,317.6	-\$658.9
Commercial & Industrial			
Large Commercial New Construction	\$2,821.8	\$3,140.9	-\$319.1
Large Commercial Retrofit	\$4,644.1	\$4,672.1	-\$28.0
Small Business Direct Install	\$691.1	\$354.1	\$337.0
Commercial & Industrial Multifamily	\$892.6	\$957.0	-\$64.4
Commercial Pilots	\$12.4	\$215.8	-\$203.4
Finance Costs	\$0.0	\$0.0	\$0.0
Community Based Initiatives - C&I	\$31.2	\$28.3	\$2.8
Commercial Workforce Development	\$67.5	\$67.5	\$0.0
Commercial & Industrial Performance Incentive	\$795.2	\$1,000.0	-\$204.8
Subtotal Commercial & Industrial	\$9,955.9	\$10,435.7	-\$479.7
Regulatory			
EERMC	\$283.4	\$259.5	\$23.9
OER	\$616.9	\$755.6	-\$138.7
Rhode Island Infrastructure Bank	\$1,262.5	\$1,262.5	\$0.0
Subtotal Regulatory	\$2,162.9	\$2,277.6	-\$114.8
TOTAL BUDGET	\$36,948.8	\$36,906.0	\$42.9

Notes:

- (1) Program Implementation Budget excludes Commitments, Company Incentive; derived on Table G-3
- (2) Total Budget includes Implementation, Commitments; illustrated on Table G-3
- (3) Performance Incentive is allocated to the C&I Sector Consistent with the final PIM approved in Docket 5076.

**Table G-5 - Primary
Rhode Island Energy
Calculation of 2023 Program Year Cost-Effectiveness
All Dollar Values in (\$000)**

	Rhode Island Benefit/ Cost¹	Total Benefit	Program Implementation Expenses²	Customer Contribution	Performance Incentive	\$/Lifetime MMBtu
Non-Income Eligible Residential						
Energy Star® HVAC	1.42	\$10,389.4	\$3,593.1	\$3,718.7		\$14.13
EnergyWise	1.01	\$10,970.1	\$9,945.1	\$872.1		\$22.08
EnergyWise MultiFamily	3.87	\$5,172.4	\$1,487.8	-\$150.1		\$12.11
Home Energy Reports	4.72	\$1,701.9	\$360.5	\$0.0		\$3.93
Residential New Construction	1.52	\$1,400.9	\$622.3	\$301.1		\$15.79
Comprehensive Marketing - Residential			\$69.1			
Community Based Initiatives - Residential			\$93.5			
Residential Pilots			\$0.0			
Non-Income Eligible Residential Subtotal	1.42	\$29,634.7	\$16,171.4	\$4,741.8	\$0.0	\$16.49
Income Eligible Residential						
Single Family - Income Eligible Services	1.86	\$10,138.9	\$5,437.7	\$0.0		\$32.14
Income Eligible Multifamily	3.04	\$9,807.3	\$3,221.0	\$0.0		\$18.68
Income Eligible Residential Subtotal	2.30	\$19,946.2	\$8,658.6	\$0.0	\$0.0	\$25.34
Large Commercial & Industrial						
Large Commercial New Construction	6.09	\$17,538.9	\$2,821.8	\$60.5		\$4.02
Large Commercial Retrofit	2.35	\$16,873.4	\$4,644.1	\$2,537.2		\$7.06
Small Business Direct Install	2.77	\$2,372.2	\$691.1	\$166.3		\$6.59
Commercial & Industrial Multifamily	4.92	\$5,917.1	\$892.6	\$309.9		\$18.60
Commercial Pilots			\$12.4			
Community Based Initiatives - C&I			\$31.2			
Finance Costs			\$0.0			
Commercial Workforce Development			\$67.5			
Commercial & Industrial Subtotal	3.28	\$42,701.7	\$9,160.7	\$3,073.9	\$795.2	\$6.35
Regulatory						
EERMC			\$283.4			
OER			\$616.9			
Rhode Island Infrastructure Bank			\$1,262.5			
Regulatory Subtotal			\$2,162.9			
Grand Total	2.06	\$92,282.6	\$36,154	\$7,815.7	\$795.2	\$12.43

Notes:

- (1) RI Test B/C Test = Total Benefits from Table G-6 excluding Economic Benefits / Program Implementation Expenses from Table G-3 and Customer Contribution. Also includes effects of free-ridership and spillover.
- (2) For Implementation Expenses derivation, see Table G-3.

Table G-5 - Economic Benefits
Rhode Island Energy
Calculation of 2023 Economic Benefits and Job Years
All Dollar Values in (\$000)

	Program Implementation Expenses¹	RI Economic Multiplier (GDP/\$ Program Impl.)	Economic Benefits	RI Job Years Multiplier (Job Years/\$M Program Impl.)	Job Years
Non-Income Eligible Residential					
Energy Star® HVAC	\$3,593	\$0.97	\$3,485.3	6.9	25
EnergyWise	\$9,945	\$1.08	\$10,740.7	11.9	118
EnergyWise MultiFamily	\$1,488	\$1.70	\$2,529.3	16.5	25
Home Energy Reports	\$361	\$1.12	\$403.8	7.5	3
Residential New Construction	\$622	\$0.34	\$211.6	2.4	1
Comprehensive Marketing - Residential	\$69		\$0.0		
Community Based Initiatives - Residential	\$93		\$0.0		
Residential Pilots	\$0		\$0.0		
Non-Income Eligible Residential SUBTOTAL	\$16,171		\$17,370.7		172
Income Eligible Residential					
Single Family - Income Eligible Services	\$5,438	\$1.05	\$5,709.6	12.1	66
Income Eligible Multifamily	\$3,221	\$1.62	\$5,218.0	16.0	52
Income Eligible Residential SUBTOTAL	\$8,659		\$10,927.5		117
Commercial & Industrial					
Large Commercial New Construction	\$2,822	\$0.74	\$2,088.2	1.2	3
Large Commercial Retrofit	\$4,644	\$2.10	\$9,752.6	16.4	76
Small Business Direct Install	\$691	\$1.39	\$960.6	13.4	9
Commercial & Industrial Multifamily	\$893	\$1.55	\$1,383.6	11.0	10
Commercial Pilots	\$12		\$0.0		
Community Based Initiatives - C&I	\$31		\$0.0		
Finance Costs	\$0		\$0.0		
Commercial Workforce Development	\$68		\$0.0		
C&I SUBTOTAL	\$9,161		\$14,184.9		99
Regulatory					
OER	\$617		\$0.0		-
EERMC	\$283		\$0.0		-
Rhode Island Infrastructure Bank	\$1,263		\$0.0		-
Regulatory SUBTOTAL	\$2,163		\$0.0		-
TOTAL	\$36,154		\$42,483.2		388

Notes:

(1) For Implementation Expenses derivation, see Table G-3.

(2) RI Economic and Job Years Multipliers from "Economic Multipliers Update" filed by National Grid in Docket 5189.

Table G-5A
Rhode Island Energy
Calculation of 2023 Program Year Cost-Effectiveness with TRC Test
All Dollar Values in (\$000)

	TRC Benefit/ Cost	Total Benefit	Program Implementation Expenses	Customer Contribution	Performance Incentive	\$/Lifetime MMBtu
Non-Income Eligible Residential						
Energy Star® HVAC	0.95	\$6,930.7	\$3,593.1	\$3,718.7		\$14.1
EnergyWise	0.75	\$8,120.0	\$9,945.1	\$872.1		\$22.1
EnergyWise MultiFamily	3.36	\$4,497.5	\$1,487.8	-\$150.1		\$12.1
Home Energy Reports	2.02	\$726.6	\$360.5	\$0.0		\$3.9
Residential New Construction	1.12	\$1,032.1	\$622.3	\$301.1		\$15.8
Comprehensive Marketing - Residential			\$69.1			
Community Based Initiatives - Residential			\$93.5			
Residential Pilots			\$0.0			
Residential Workforce Development			\$0.0			
Non-Income Eligible Residential Subtotal	1.02	\$21,306.9	\$16,171.4	\$4,741.8	\$0.0	\$16.5
Income Eligible Residential						
Single Family - Income Eligible Services	1.67	\$9,062.6	\$5,437.7	\$0.0		\$32.1
Income Eligible Multifamily	2.67	\$8,596.0	\$3,221.0	\$0.0		\$18.7
Income Eligible Workforce Development			\$0.0			\$0.0
Income Eligible Residential Subtotal	2.04	\$17,658.6	\$8,658.6	\$0.0	\$0.0	\$25.3
Large Commercial & Industrial						
Large Commercial New Construction	4.30	\$12,404.2	\$2,821.8	\$60.5		\$4.0
Large Commercial Retrofit	1.28	\$9,203.4	\$4,644.1	\$2,537.2		\$7.1
Small Business Direct Install	1.66	\$1,420.4	\$691.1	\$166.3		\$6.6
Commercial & Industrial Multifamily	4.53	\$5,453.4	\$892.6	\$309.9		\$18.6
Commercial Pilots			\$12.4	\$0.0		
Community Based Initiatives - C&I			\$31.2	\$0.0		
Finance Costs			\$0.0	\$0.0		
Commercial Workforce Development			\$67.5	\$0.0		
Commercial & Industrial Subtotal	2.19	\$28,481.5	\$9,160.7	\$3,073.9	\$795.2	\$6.3
Regulatory						
EERMC			\$283.4			
OER			\$616.9			
Rhode Island Infrastructure Bank			\$1,262.5			
Regulatory Subtotal			\$2,162.9			
Grand Total	1.51	\$67,446.9	\$36,153.6	\$7,815.7	\$795.2	\$12.4

Notes:

(1) TRC B/C Test = (Energy + Capacity + Resource Benefits) / (Program Implementation + Customer Contribution + Performance Incentive)

Also includes effects of free-ridership and spillover.

(2) For Implementation Expenses derivation, see Table G-3.

Table G-6
Rhode Island Energy
Summary of 2023 Benefits by Program

	Benefits (\$000)																				
	Total	Total (Economic Excluded)	Natural Gas Benefits		Electric Capacity					Electric Energy					Non-Electric and Non-Gas			Societal			
			Natural Gas	Natural Gas DRIPE	Summer Generation	Capacity DRIPE	Trans	Dist	Reliability	Winter		Summer			Electric Energy DRIPE	Oil and Oil DRIPE	Other Resource	Non Resource	Carbon	NOx	Economic
										Winter Peak	Winter Off Peak	Summer Peak	Summer Off Peak								
Non-Income Eligible Residential																					
EnergyWise	\$21,711	\$10,970	\$4,431	\$28	\$61	\$106	\$82	\$101	\$5	\$52	\$59	\$54	\$47	\$38	\$0	\$75	\$2,982	\$2,518	\$332	\$10,741	
Energy Star@ HVAC	\$13,875	\$10,389	\$4,690	\$37	\$173	\$466	\$240	\$296	\$23	\$16	\$5	\$129	\$108	\$73	\$0	\$44	\$629	\$3,101	\$357	\$3,485	
EnergyWise Multifamily	\$7,702	\$5,172	\$990	\$7	\$6	\$13	\$8	\$10	\$1	\$1	\$0	\$5	\$4	\$2	\$0	\$42	\$3,407	\$600	\$75	\$2,529	
Home Energy Reports	\$2,106	\$1,702	\$696	\$30	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$912	\$64	\$404	
Residential New Construction	\$1,612	\$1,401	\$526	\$4	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$7	\$494	\$329	\$40	\$212	
Non-Income Eligible Residential SUBTOTAL	\$47,005	\$29,635	\$11,334	\$106	\$240	\$584	\$331	\$407	\$29	\$68	\$64	\$188	\$159	\$113	\$0	\$169	\$7,513	\$7,459	\$868	\$17,371	
Income Eligible Residential																					
Single Family - Income Eligible Services	\$15,848	\$10,139	\$1,552	\$11	\$18	\$35	\$24	\$30	\$2	\$20	\$23	\$15	\$13	\$16	\$0	\$0	\$7,304	\$960	\$117	\$5,710	
Income Eligible Multifamily	\$15,025	\$9,807	\$1,556	\$15	\$7	\$22	\$10	\$12	\$1	\$1	\$1	\$5	\$4	\$4	\$0	\$24	\$6,933	\$1,093	\$118	\$5,218	
Income Eligible Residential SUBTOTAL	\$30,874	\$19,946	\$3,108	\$26	\$25	\$57	\$34	\$42	\$3	\$21	\$24	\$20	\$17	\$20	\$0	\$24	\$14,237	\$2,053	\$235	\$10,928	
Commercial & Industrial																					
Large Commercial New Construction	\$19,627	\$17,539	\$5,443	\$51	\$79	\$157	\$108	\$132	\$8	\$0	\$0	\$0	\$0	\$0	\$0	\$148	\$6,279	\$4,613	\$522	\$2,088	
Large Commercial Retrofit	\$26,626	\$16,873	\$8,295	\$113	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$796	\$6,924	\$746	\$9,753	
Small Business Direct Install	\$3,333	\$2,372	\$1,023	\$11	\$0	\$0	\$0	\$0	\$0	\$4	\$3	\$1	\$1	\$3	\$0	\$317	\$58	\$856	\$96	\$961	
Commercial & Industrial Multifamily	\$7,301	\$5,917	\$548	\$6	\$3	\$10	\$4	\$5	\$0	\$0	\$0	\$2	\$2	\$2	\$0	\$4	\$4,866	\$417	\$47	\$1,384	
Commercial & Industrial SUBTOTAL	\$56,887	\$42,702	\$15,308	\$181	\$82	\$166	\$112	\$138	\$8	\$4	\$3	\$3	\$3	\$5	\$0	\$469	\$11,998	\$12,809	\$1,411	\$14,185	
Grand Total	\$134,766	\$92,283	\$29,750	\$313	\$347	\$808	\$477	\$586	\$41	\$94	\$92	\$212	\$179	\$138	\$0	\$662	\$33,748	\$22,321	\$2,514	\$42,483	

Table G-6A
Rhode Island Energy
Summary of 2023 Impacts by Program

	Gas Savings			Electric Energy Savings					Total Savings (Gas, Electric)		Total Carbon Savings
	MMBtu		short tons CO ₂	MWh		MMBtu		short tons CO ₂	MMBtu		short tons CO ₂
	Annual	Lifetime	Annual ²	Annual	Lifetime	Annual	Lifetime	Annual ²	Annual	Lifetime	Annual ²
Non-Income Eligible Residential											
EnergyWise®	20,697	490,013	1,422	116	2,713	394	9,258	55	21,092	499,271	1,477
Energy Star® HVAC	27,030	517,571	1,978	281	4,173	957	14,238	128	27,987	531,809	2,106
EnergyWise Multifamily	5,358	110,428	440	9	158	29	540	6	5,387	110,968	446
Home Energy Reports	91,640	91,640	5,361	-	-	-	-	-	91,640	91,640	5,361
Residential New Construction	3,287	58,476	215	-	-	-	-	-	3,287	58,476	215
Non-Income Eligible Residential SUBTOTAL	148,013	1,268,128	9,416	405	7,045	1,380	24,036	188	149,393	1,292,165	9,604
Income Eligible Residential											
Single Family - Income Eligible Services	8,230	169,180	481	51	1,022	173	3,485	20	8,403	172,665	501
Income Eligible Multifamily	11,075	172,464	648	15	189	49	643	5	11,125	173,107	653
Income Eligible Residential SUBTOTAL	19,305	341,644	1,129	65	1,210	222	4,129	25	19,528	345,773	1,155
Commercial & Industrial											
Large Commercial New Construction	48,823	716,705	5,075	-	-	-	-	-	48,823	716,705	5,075
Large Commercial Retrofit	94,766	1,016,519	5,095	-	-	-	-	-	94,766	1,016,519	5,095
Small Business Direct Install	9,723	130,193	630	8	116	26	395	3	9,750	130,588	633
Commercial & Industrial Multifamily	4,249	64,645	275	6	82	22	281	4	4,270	64,927	279
Commercial & Industrial SUBTOTAL	157,561	1,928,063	11,074	14	198	48	676	8	157,609	1,928,739	11,082
Grand Total	324,879	3,537,835	21,619	484	8,453	1,650	28,841	222	326,529	3,566,676	21,841

Notes:
1) Lifetime savings are equal to annual savings multiplied by the expected life of measures expected to be installed in each program.
(2) Annual short tons CO₂ savings is based on gross annual energy savings in Year 1. The AESC 2021 study was used to inform the electric emissions factor for 2023, taking the average of summer/winter on/off-peak

Table G-7
Rhode Island Energy
Comparison of 2023 and 2022 Goals

	Proposed 2023 Goal	Proposed 2023 Tracking		Approved 2022		Difference	
	Lifetime Energy Savings (MMBtu Natural Gas)	Annual Energy Savings (MMBtu Natural Gas)	Planned Unique Participants	Lifetime Energy Savings (MMBtu Natural Gas)	Annual Energy Savings (MMBtu Natural Gas)	Lifetime Energy Savings (MMBtu Natural Gas)	Annual Energy Savings (MMBtu Natural Gas)
Non-Income Eligible Residential							
EnergyWise	490,013	20,697	1,716	478,550	20,850	11,463	-152
Energy Star® HVAC	517,571	27,030	2,904	439,717	26,740	77,854	289
EnergyWise Multifamily	110,428	5,358	3,453	147,064	8,279	-36,636	-2,921
Home Energy Reports	91,640	91,640	130,585	93,548	93,548	-1,907	-1,907
Residential New Construction	58,476	3,287	460	64,899	3,610	-6,423	-323
Non-Income Eligible Residential SUBTOTAL	1,268,128	148,013	139,117	1,223,778	153,027	44,350	-5,014
Income Eligible Residential							
Single Family - Income Eligible Services	169,180	8,230	797	218,847	10,942	-49,667	-2,712
Income Eligible Multifamily	172,464	11,075	2,742	273,085	14,700	-100,621	-3,625
Income Eligible Residential SUBTOTAL	341,644	19,305	3,539	491,932	25,642	-150,288	-6,337
Commercial & Industrial							
Large Commercial New Construction	716,705	48,823	62	788,763	52,956	-72,058	-4,133
Large Commercial Retrofit	1,016,519	94,766	59	1,332,508	142,888	-315,989	-48,122
Small Business Direct Install	130,193	9,723	146	91,700	6,113	38,494	3,610
Commercial & Industrial Multifamily	64,645	4,249	488	131,220	8,803	-66,575	-4,554
Commercial & Industrial SUBTOTAL	1,928,063	157,561	755	2,344,192	210,760	-416,129	-53,200
TOTAL	3,537,835	324,879	143,411	4,059,902	389,430	-522,067	-64,551

Notes:

- (1) Participants can participate in more than one program, for example Home Energy Reports and EnergyWise.
- (2) Planned 2023 participation takes into account net-to-gross and estimates unique participation by taking into account 2021 unique customer accounts to savings ratios. Therefore the number of planned measures may be more than the planned participants. For measure counts please view the widgets tables at the end of the Residential and C&I text sections. Table G-7 no longer includes a comparison to the previous year's participation. Due to the way unique participation is calculated it is not possible to compare year-over-year results.

Table G-8A
Rhode Island Energy
2023 Gas PIM Benefits, Allocations, and Categorization (\$000)

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
	Natural Gas Benefits		Utility NEIs	Electric Capacity				Electric Energy				Non-Electric and Non-Gas				Societal			
	Natural Gas	Natural Gas DRIPE	Utility NEIs	Summer Generation	Capacity DRIPE	Trans	Dist	Reliability	Winter		Summer		Electric Energy DRIPE	Oil and Oil DRIPE	Other Resource	Non Resource	Carbon	NOx	Economic
									Winter Peak	Winter Off Peak	Summer Peak	Summer Off Peak							
Non-Income Eligible Residential																			
EnergyWise	\$4,431	\$28	\$0	\$61	\$106	\$82	\$101	\$5	\$52	\$59	\$54	\$47	\$38	\$0	\$75	\$2,982	\$2,518	\$332	\$10,741
Energy Star® HVAC	\$4,690	\$37	\$0	\$173	\$466	\$240	\$296	\$23	\$16	\$5	\$129	\$108	\$73	\$0	\$44	\$629	\$3,101	\$357	\$3,485
EnergyWise Multifamily	\$990	\$7	\$0	\$6	\$13	\$8	\$10	\$1	\$1	\$0	\$5	\$4	\$2	\$0	\$42	\$3,407	\$600	\$75	\$2,529
Home Energy Reports	\$696	\$30	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$912	\$64	\$404
Residential New Construction	\$526	\$4	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$7	\$494	\$329	\$40	\$212
Non-Income Eligible Residential SUBTOTAL	\$11,334	\$106	\$0	\$240	\$584	\$331	\$407	\$29	\$68	\$64	\$188	\$159	\$113	\$0	\$169	\$7,513	\$7,459	\$868	\$17,371
Income Eligible Residential																			
Single Family - Income Eligible Services	\$1,552	\$11	\$79	\$18	\$35	\$24	\$30	\$2	\$20	\$23	\$15	\$13	\$16	\$0	\$0	\$7,225	\$960	\$117	\$5,710
Income Eligible Multifamily	\$1,556	\$15	\$33	\$7	\$22	\$10	\$12	\$1	\$1	\$1	\$5	\$4	\$4	\$0	\$24	\$6,901	\$1,093	\$118	\$5,218
Income Eligible Residential SUBTOTAL	\$3,108	\$26	\$112	\$25	\$57	\$34	\$42	\$3	\$21	\$24	\$20	\$17	\$20	\$0	\$24	\$14,125	\$2,053	\$235	\$10,928
Commercial & Industrial																			
Large Commercial New Construction	\$5,443	\$51	\$0	\$79	\$157	\$108	\$132	\$8	\$0	\$0	\$0	\$0	\$0	\$0	\$148	\$6,279	\$4,613	\$522	\$2,088
Large Commercial Retrofit	\$8,295	\$113	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$796	\$6,924	\$746	\$9,753
Small Business Direct Install	\$1,023	\$11	\$0	\$0	\$0	\$0	\$0	\$0	\$4	\$3	\$1	\$1	\$3	\$0	\$317	\$58	\$856	\$96	\$961
Commercial & Industrial Multifamily	\$548	\$6	\$0	\$3	\$10	\$4	\$5	\$0	\$0	\$0	\$2	\$2	\$2	\$0	\$4	\$4,866	\$417	\$47	\$1,384
Commercial & Industrial SUBTOTAL	\$15,308	\$181	\$0	\$82	\$166	\$112	\$138	\$8	\$4	\$3	\$3	\$3	\$5	\$0	\$469	\$11,998	\$12,809	\$1,411	\$14,185
Grand Total	\$29,750	\$313	\$112	\$347	\$808	\$477	\$586	\$41	\$94	\$92	\$212	\$179	\$138	\$0	\$662	\$33,636	\$22,321	\$2,514	\$42,483
Included in PIM? (Y/N)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	N	N	N
Percent Application in PIM	100%	100%	100%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	0%	0%	0%	0%
Category	Gas Utility System Benefits	Gas Utility System Benefits	Gas Utility System Benefits	Resource Benefits	Resource Benefits	Resource Benefits	Resource Benefits	Resource Benefits	Resource Benefits	Resource Benefits	Resource Benefits	Resource Benefits	Resource Benefits	Resource Benefits	Resource Benefits	NA	NA	NA	NA

Notes
From 2023 Benefit-Cost Model, reflects benefits in Table G-6.

**Table G-8B - Compliance Filing
Rhode Island Energy
2023 Gas PIM Costs (\$000)**

	(1)	(2)	(3)
	Costs (\$)		
	Eligible Spending Budget from Table G-3	Regulatory Costs	Total Costs for PIM Calculations
Non-Income Eligible Residential SUBTOTAL	\$16,171	\$94	\$16,266
Income Eligible Residential SUBTOTAL	\$8,659	\$94	\$8,753
Commercial & Industrial SUBTOTAL	\$9,096	\$94	\$9,190
Included in PIM? (Y/N)	Y	Y	Y

Notes

Source is Table G-2 and G-3. Regulatory costs allocated equally to each sector. OER and RIIB costs have been omitted from Regulatory Costs.

Table G-8C
Rhode Island Energy
2023 Gas PIM and SQA

Sector PI = min{ Payout Cap(i), [Actual Net Benefits* Design Payout Rate(g) * Payout Rate Adjustment(i)] }

Sector	Planned Eligible Benefits		Planned Eligible Costs	Planned Eligible Net Benefits (4)	Design Performance Achievement	Design Performance Payout	Design Payout Rate	Design Payout Rate Thresholds	Payout Rate Adjustments	Payout Cap	Service Quality Metric
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)
	100% Gas Utility System Benefits	50% Resource Benefits	Eligible Spending Budget + Regulatory Costs	=(a)+(b)-(c)	Net benefits at which design incentive pool is achieved	Set by PUC	=(f)/(e)	Achievement levels at which the Payout Rate Adjustments in (i) will be applied—Set by PUC	Factor to adjust Design Payout Rate for if final program achievement fall within the ranges in (h)—Set by PUC	=1.25*(f)	Yes if (d) ≤ 0; No if (d) > 0
										Cap on sector payout regardless of achievement in sector	See Service Quality Table
Non-Income Eligible Residential	\$11,439,970	\$1,177,002	\$16,265,852	-\$3,648,880	\$2,000,000	\$500,000	25.0%	a. Achievement < 25% b. 25% ≤ Achievement < 50% c. 50% ≤ Achievement < 75% d. 75% ≤ Achievement • Spending > Planned Eligible Costs	a. 0.0 b. Achievement/100 + 0.1 c. Achievement/100 + 0.25 d. 0.0 • See Boundary Rules	\$625,000	Yes
Income Eligible Residential	\$3,246,250	\$143,577	\$8,753,130	-\$5,363,303	\$2,000,000	\$500,000	25.0%			\$625,000	Yes
Commercial & Industrial	\$15,489,323	\$496,890	\$9,190,360	\$6,795,854	\$6,795,854	\$795,220	11.7%			\$994,025	No

Sector SQA = Maximum Service Adjustment(e) * Service Achievement Scaling Factor(g)

	Planned Eligible Benefits		Planned Eligible Costs	Design Service Achievement	Maximum Service Adjustment	Service Adjustment Thresholds	Service Achievement Scaling Factors	Achievement Cost Adjustment
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
	100% Gas Utility System Benefits	50% Resource Benefits	Eligible Spending Budget + Regulatory Costs	=(a)+(b)	Maximum downward adjustment to earned incentive	Adjusted Achievement levels at which the Service Adjustments in (e) will be applied; adjustment is calculated in (h)	Factor to scale program achievement that fall within the ranges in (f)	Actual-cost-based adjustment factor applied to achievement. Result is if the difference between achievement and cost variances are greater than 5%, the Actual Achievement will be adjusted for use in
Non-Income Eligible Residential	\$11,439,970	\$1,177,002	\$16,265,852	\$12,616,972	\$333,102	a. Adjusted Achievement < 65% b. 65% ≤ Adjusted Achievement < 95% c. 95% ≤ Adjusted Achievement	a. 0.0 b. 0.95-Adjusted Achievement/30 c. 0.0	Performance Variance = "Actual Benefits" / "Design Achievement" - "Spending" / "Planned Eligible Cost"
Income Eligible Residential	\$3,246,250	\$143,577	\$8,753,130	\$3,389,827	\$123,176			If the absolute value (Performance Variance) ≤ 0.05, Then Adjusted Achievement = Actual Achievement Else Adjusted Achievement = Actual Achievement * (1+ Performance Variance)
Commercial & Industrial	\$15,489,323	\$496,890	\$9,190,360	\$15,986,213	\$0			

Table G-9
Rhode Island Energy
Revolving Loan Fund Projections

Large C&I Revolving Loan Fund

(1)	Total Loan Fund Deposits Through 2022	\$ 3,590,440
(2)	Current Loan Fund Balance	\$ 2,481,254
(3)	Projected Loans by Year End 2022	\$ 1,200,000
(4)	Projected Repayments by Year End 2022	\$ 311,389
(5)	Projected Year End Loan Fund Balance 2022	\$ 1,592,643
(6)	2023 Fund Injection	\$ -
(7)	Projected Loan Fund Balance, January 2023	\$ 1,592,643
(8)	Projected Repayments throughout 2023	\$ 309,469
(9)	Estimated Loans in 2023	\$ 1,200,000
(10)	Projected Year End Loan Fund Balance 2023	\$ 702,112

Notes

- 1 Funding injections since loan funds began. Net of any adjustments.
- 2 Current Loan Fund Balance is through May 2022
- 3 Projected Loans by Year End 2022 is estimated based on current commitments
Projected Repayments by Year End 2022 is estimated based on projected loans
- 4 by year end and repayment schedules
- 5 Equal to (2) - (3) + (4)
- 6 Fund Injection, as budgeted on G-2
- 7 Equal to (5) + (6)
- 8 Assumption based on average repayments over 12 months; repayments accumulate over time and may vary widely.

Table G-10
Rhode Island Energy
Rhode Island Gas Energy Efficiency 2003 - 2023
\$(000)

Gas	2007 ⁽⁴⁾	2008	2009	2010	2011 ⁽⁵⁾	2012	2013 ⁽⁶⁾	2014	2015	2016	2017	2018	2019	2020 ⁽⁷⁾	2021 ⁽⁸⁾	2022 ⁽⁹⁾	2023 ⁽¹⁰⁾
Energy Efficiency Budget (\$Million) ⁽¹⁾	-	\$7.3	\$7.6	\$4.8	\$7.3	\$13.7	\$19.5	\$23.5	\$24.5	\$27.7	\$29.7	\$28.1	\$31.6	\$34.3	\$35.0	\$36.9	\$36.9
Spending Budget (\$Million) ⁽²⁾	-	\$6.6	\$6.1	\$4.5	\$6.2	\$12.9	\$17.9	\$21.8	\$22.4	\$25.0	\$27.8	\$26.2	\$29.2	\$31.6	\$32.4	\$33.4	\$33.9
Actual Expenditures (\$Million) ⁽³⁾	-	\$7.4	\$6.3	\$5.5	\$4.9	\$13.3	\$19.6	\$21.5	\$21.5	\$24.6	\$29.1	\$28.8	\$29.5	\$24.6			
Incentive Percentage ⁽¹²⁾	-	4.4%	4.4%	4.4%	4.4%	4.4%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	NA	NA	NA
Target Incentive	-	\$288,734	\$266,980	\$199,743	\$274,460	\$570,382	\$898,285	\$1,089,700	\$1,119,800	\$1,251,654	\$1,387,550	\$1,309,076	\$1,460,570	\$1,578,601	\$1,700,000	\$1,000,000	\$795,220
Earned Incentive	-	\$288,734	\$262,121	\$231,310	\$239,863	\$586,036	\$968,229	\$1,362,108	\$1,387,079	\$1,496,869	\$1,633,531	\$1,541,255	\$1,580,119	\$347,732			
Annual MMBtu Energy Savings Goal Achieved (%)	-	109%	139%	127%	117%	99%	109%	124%	111%	106%	113%	120%	104%	71%			
System Benefits Charge (\$/therm) - all non-exempt customer ⁽¹¹⁾	\$0.0071	\$0.0107	\$0.0150	\$0.0150	\$0.0411	\$0.0384	\$0.0417	-	-	-	-	-	-	-	-	-	-
Residential System Benefits Charge (\$/therm)	-	-	-	-	-	-	-	\$0.0600	\$0.0781	\$0.0748	\$0.0888	\$0.0869	\$0.0715	\$0.1011	\$0.0871	\$0.1271	\$0.1190
C&I System Benefits Charge (\$/therm)	-	-	-	-	-	-	-	\$0.0492	\$0.0637	\$0.0487	\$0.0726	\$0.0671	\$0.0420	\$0.0704	\$0.0596	\$0.0846	\$0.0627
Annual Cost to 846 Therm/year Residential Customer w/o tax ⁽⁹⁾	\$6.04	\$9.05	\$12.69	\$12.69	\$18.28	\$32.49	\$35.28	\$50.76	\$66.07	\$63.28	\$75.12	\$73.52	\$60.49	\$85.53	\$73.69	\$107.53	\$100.67
Annual Cost to 846 Therm/year Residential Customer w/tax ⁽¹⁰⁾	\$6.23	\$9.33	\$13.08	\$13.08	\$18.85	\$33.49	\$36.37	\$52.33	\$68.11	\$65.24	\$77.44	\$75.79	\$62.36	\$88.18	\$75.97	\$110.86	\$103.78

Notes:

- (1) Energy Efficiency Budget includes total expenditures and commitments. Includes all demand side management program-related expenses, including rebates, administration and general expenses, evaluation, commitments for future years and Company incentive.
- (2) Prior to 2017, Spending Budget Eligible for Shareholder Incentive includes: Implementation, Administration, General, and Evaluation Expenses; excludes EERMC and OER Costs, Commitments, Copays, and Outside Finance Costs. Beginning in 2017, Outside Finance Costs were also included. Beginning in 2018 Pilot expenses were also excluded. Beginning in 2019 ConnectedSolutions expenses and assessment were also excluded.
- (3) Actual Expenditures is actual spend during calendar year. Includes expenditures and commitments. Includes all demand side management program-related expenses, including rebates, administration and general expenses, evaluation, commitments for future years and Company incentive.
- (4) Gas programs began during July 2007 and were not reported on separately that year since programs were still in development. The 2007 gas programs are included in 2008 reporting. Systems Benefit Charge shown for 2007 is the weighted average of \$0.063 per decatherm from January 1, 2007 - June 30, 2007 and \$0.107 per decatherm from July 1, 2007 through December 31, 2008.
- (5) On July 25, 2011 the Commission ordered that National Grid could increase the gas System Benefits Charge from \$0.15 to \$0.411 per decatherm for the period of August 1, 2011 through December 31, 2011. Annual cost represents 7 months usage (632 therms) at \$0.015 per therm and 5 months usage (214 therms) at \$0.0411 per therm.
- (6) In the Company's gas and electric rate cases in docket 4323, the PUC approved the uncollectibles gross-up in the electric EE Program Charge effective February 1, 2013, and a new rate applicable to the gross-up of the gas EE Program Charge, effective February 1, 2013.
- (7) 2021 values are planned.
- (8) 2022 values are proposed.
- (9) Reflects the annual cost excluding Gross Earnings Tax.
- (10) Reflects the annual cost including Gross Earnings Tax.
- (11) The Gas EE Program Charge was uniform for all customers until 2014, at which time the Company proposed and the PUC approved individual factors for the residential and C&I sectors.
- (12) Incentive percentage not applicable for 2022 due to new performance incentive mechanism developed for the 2022 Annual Plan. See Section 11 of the Main Text of the 2022 Annual Plan for additional details.

Table E-1
Rhode Island Energy
Electric DSM Funding Sources in 2023 by Sector
\$(000)

	Income Eligible Residential	Projections by Sector Non-Income Eligible Residential	Commercial & Industrial	Total
	(\$28.1)	(\$63.0)	(\$2,337.9)	(\$2,429.0)
Projected Budget (from E-2):				
Sources of Other Funding:				
Projected DSM Commitments at Year-End 2022:	\$0.0	\$0.0	\$0.0	\$0.0
Projected Year-End 2022 Fund Balance and Interest:	\$0.0	\$0.0	\$0.0	\$0.0
Projected FCM Net Revenue from ISO-NE:	\$0.0	\$0.0	\$0.0	\$0.0
<i>Prior Years Investigation Credit:</i>	<i>\$0.0</i>	<i>\$0.0</i>	<i>\$0.0</i>	<i>\$0.0</i>
Total Other Funding:	\$0.0	\$0.0	\$0.0	\$0.0
Customer Funding Required:	(\$28.1)	(\$63.0)	(\$2,337.9)	(\$2,429.0)
Forecasted kWh Sales:	0	0	0	0
Energy Efficiency Program charge per kWh, excluding uncollectible recovery:				(\$0.00033)
Proposed SRP Opex Factor per kWh, excluding uncollectible recovery:				<u>\$0.00000</u>
Total Proposed Energy Efficiency Charge per kWh, excluding uncollectible recovery:				(\$0.00033)
Currently Effective Uncollectible Rate				0.00%
Proposed Energy Efficiency Program Charge per kWh, including Uncollectible Recovery:				(\$0.00034)
Currently Effective Energy Efficiency Program Charge per kwh				<u>\$0.00000</u>
Proposed Adjustment to Reflect Fully Reconciling Funding Mechanism				(\$0.00034)

Table E-2
Rhode Island Energy
2023 Electric Energy Efficiency Program Budget (\$000)

	Program Planning & Administration	Marketing	Rebates and Other Customer Incentives	Sales, Tech Assist & Training	Evaluation & Market Research	Performance Incentive	Grand Total
Non-Income Eligible Residential							
Residential New Construction	-\$1.7	\$0.0	\$0.0	\$0.0	\$0.0		-\$1.7
ENERGY STAR® HVAC	-\$6.2	\$0.0	\$0.0	\$0.1	\$0.0		-\$6.2
EnergyWise	-\$25.0	\$0.0	\$0.0	\$0.3	\$0.0		-\$24.7
EnergyWise Multifamily	-\$1.8	\$0.0	\$0.0	\$0.0	\$0.0		-\$1.8
Residential Consumer Products	-\$2.5	\$0.0	\$0.0	\$0.0	\$0.0		-\$2.4
Home Energy Reports	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0		\$0.0
Residential ConnectedSolutions	-\$3.0	\$0.0	\$0.0	\$0.0	\$0.0		-\$3.0
Energy Efficiency Education Programs	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0		\$0.0
Residential Pilots	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0		\$0.0
Community Based Initiatives - Residential	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0		\$0.0
Comprehensive Marketing - Residential	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0		\$0.0
Residential Workforce Development	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0		\$0.0
Residential Performance Incentive	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$4.7	\$4.7
Subtotal - Non-Income Eligible Residential	-\$40.2	\$0.0	\$0.0	\$0.5	\$0.0	\$4.7	-\$35.0
Income Eligible Residential							
Single Family - Income Eligible Services	-\$19.1	\$0.0	\$0.0	\$0.3	\$0.0		-\$18.8
Income Eligible Multifamily	-\$7.0	\$0.0	\$0.0	\$0.1	\$0.0		-\$6.9
Income Eligible Workforce Development	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0		\$0.0
Income Eligible Performance Incentive	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Subtotal - Income Eligible Residential	-\$26.1	\$0.0	\$0.0	\$0.3	\$0.0	\$0.0	-\$25.8
Commercial & Industrial							
Large Commercial New Construction	-\$11.5	\$0.0	\$0.0	-\$128.7	\$0.0		-\$140.2
Large Commercial Retrofit	-\$52.2	\$0.0	-\$1,628.6	-\$383.6	\$0.0		-\$2,064.5
Small Business Direct Install	-\$13.5	\$0.0	\$0.0	\$1.0	\$0.0		-\$12.5
Commercial ConnectedSolutions	-\$10.7	\$0.0	\$0.0	\$0.8	\$0.0		-\$9.9
Commercial Pilots	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0		\$0.0
Community Based Initiatives - C&I	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0		\$0.0
Finance Costs	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0		\$0.0
Commercial Workforce Development	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0		\$0.0
Commercial & Industrial Performance Incentive	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	-\$70.8	-\$70.8
Subtotal - Commercial & Industrial	-\$88.0	\$0.0	-\$1,628.6	-\$510.5	\$0.0	-\$70.8	-\$2,297.9
Regulatory							
OER	-\$42.2	\$0.0	\$0.0	\$0.0	\$0.0		-\$42.2
EERMC	-\$28.1	\$0.0	\$0.0	\$0.0	\$0.0		-\$28.1
Rhode Island Infrastructure Bank	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0		\$0.0
Subtotal - Regulatory	-\$70.3	\$0.0	\$0.0	\$0.0	\$0.0		-\$70.3
Grand Total	-\$224.6	\$0.0	-\$1,628.6	-\$509.6	\$0.0	-\$66.1	-\$2,429.0

Table E-3
Rhode Island Energy
Derivation of the 2023 Eligible PIM and Implementation Budgets (\$000)

	Proposed 2023 Budget From E-2	Commitments	Regulatory Costs	Performance Incentive	Eligible Sector PIM Budget for Performance Incentive on E-8B	Implementation Expenses for Cost- Effectiveness on E-5
Non-Income Eligible Residential						
Residential New Construction	(\$1.7)					(\$1.7)
ENERGY STAR® HVAC	(\$6.2)					(\$6.2)
EnergyWise	(\$24.7)					(\$24.7)
EnergyWise Multifamily	(\$1.8)					(\$1.8)
Residential Consumer Products	(\$2.4)					(\$2.4)
Home Energy Reports	\$0.0					\$0.0
Residential ConnectedSolutions	(\$3.0)					(\$3.0)
Energy Efficiency Education Programs	\$0.0					\$0.0
Residential Pilots	\$0.0					\$0.0
Community Based Initiatives - Residential	\$0.0					\$0.0
Comprehensive Marketing - Residential	\$0.0					\$0.0
Residential Workforce Development	\$0.0					\$0.0
Residential Performance Incentive	\$4.7			\$4.7		\$0.0
Subtotal - Non-Income Eligible Residential	(\$35.0)	\$0.0	\$0.0	\$4.7	(\$36.7)	(\$39.7)
Income Eligible Residential						
Single Family - Income Eligible Services	(\$18.8)					(\$18.8)
Income Eligible Multifamily	(\$6.9)					(\$6.9)
Income Eligible Workforce Development	\$0.0					\$0.0
Income Eligible Performance Incentive	\$0.0			\$0.0		\$0.0
Subtotal - Income Eligible Residential	(\$25.8)	\$0.0	\$0.0	\$0.0	(\$25.8)	(\$25.8)
Commercial & Industrial						
Large Commercial New Construction	(\$140.2)	\$0.0				(\$140.2)
Large Commercial Retrofit	(\$2,064.5)	\$0.0				(\$2,064.5)
Small Business Direct Install	(\$12.5)	\$0.0				(\$12.5)
Commercial ConnectedSolutions	(\$9.9)					(\$9.9)
Commercial Pilots	\$0.0					\$0.0
Community Based Initiatives - C&I	\$0.0					\$0.0
Finance Costs	\$0.0					\$0.0
Commercial Workforce Development	\$0.0					\$0.0
Commercial & Industrial Performance Incentive	(\$70.8)			(\$70.8)		\$0.0
Subtotal - Commercial & Industrial	(\$2,297.9)	\$0.0	\$0.0	(\$70.8)	(\$2,217.2)	(\$2,227.1)
Regulatory						
OER	(\$42.2)		(\$42.2)			(\$42.2)
EERMC	(\$28.1)		(\$28.1)			(\$28.1)
Rhode Island Infrastructure Bank	\$0.0		\$0.0			\$0.0
Subtotal - Regulatory	(\$70.3)	\$0.0	(\$70.3)	\$0.0	\$0.0	(\$70.3)
Grand Total	(\$2,429.0)	\$0.0	(\$70.3)	(\$66.1)	(\$2,279.7)	(\$2,362.9)

Table E-4
Rhode Island Energy
Proposed 2023 Budget Compared to Approved 2022 Budget (\$000)

	Proposed Implementation Budget 2023	Approved Implementation Budget 2022	Difference
Non-Income Eligible Residential			
Residential New Construction	-\$1.7	\$0.0	-\$1.7
ENERGY STAR® HVAC	-\$6.2	\$0.0	-\$6.2
EnergyWise	-\$24.7	\$0.0	-\$24.7
EnergyWise Multifamily	-\$1.8	\$0.0	-\$1.8
Residential Consumer Products	-\$2.4	\$0.0	-\$2.4
Home Energy Reports	\$0.0	\$0.0	\$0.0
Residential ConnectedSolutions	-\$3.0	\$0.0	-\$3.0
Community Based Initiatives - Residential	\$0.0	\$0.0	\$0.0
Comprehensive Marketing - Residential	\$0.0	\$0.0	\$0.0
Subtotal - Non-Income Eligible Residential	-\$39.7	\$0.0	-\$39.7
Income Eligible Residential			
Single Family - Income Eligible Services	-\$18.8	\$0.0	-\$18.8
Income Eligible Multifamily	-\$6.9	\$0.0	-\$6.9
Subtotal - Income Eligible Residential	-\$25.8	\$0.0	-\$25.8
Commercial & Industrial			
Large Commercial New Construction	-\$140.2	\$0.0	-\$140.2
Large Commercial Retrofit	-\$2,064.5	\$0.0	-\$2,064.5
Small Business Direct Install	-\$12.5	\$0.0	-\$12.5
Commercial ConnectedSolutions	-\$9.9	\$0.0	-\$9.9
Community Based Initiatives - C&I	\$0.0	\$0.0	\$0.0
Commercial Pilots	\$0.0	\$0.0	\$0.0
Finance Costs	\$0.0	\$0.0	\$0.0
Commercial Workforce Development	\$0.0	\$0.0	\$0.0
Subtotal Commercial & Industrial	-\$2,227.1	\$0.0	-\$2,227.1
Regulatory			
EERMC	-\$28.1	\$0.0	-\$28.1
OER	-\$42.2	\$0.0	-\$42.2
Rhode Island Infrastructure Bank	\$0.0	\$0.0	\$0.0
Subtotal Regulatory	-\$70.3	\$0.0	-\$70.3
TOTAL IMPLEMENTATION BUDGET	-\$2,362.9	\$0.0	-\$2,362.9
OTHER EXPENSE ITEMS			
Commitments	\$0.0	\$0.0	\$0.0
Company Incentive	-\$66.1	\$0.0	-\$66.1
Subtotal - Other Expense Items	-\$66.1	\$0.0	-\$66.1
TOTAL BUDGET	-\$2,429.0	\$0.0	-\$2,429.0

**Table E-5 - Primary
Rhode Island Energy
Calculation of 2023 Program Year Cost-Effectiveness
All Dollar Values in (\$000)**

	RI Test Benefit/ Cost¹	Total Benefit	Program Implementation Expenses²	Customer Contribution	Performance Incentive	¢/Lifetime kWh
Non-Income Eligible Residential						
Residential New Construction	0.001	\$0.0	-\$1.7	\$0.0		-\$0.01
ENERGY STAR® HVAC	0.002	\$0.0	-\$6.2	\$0.0		-\$0.01
EnergyWise	0.001	\$0.0	-\$24.7	\$0.0		-\$0.15
EnergyWise Multifamily	0.003	\$0.0	-\$1.8	\$0.0		-\$0.02
Home Energy Reports	0.000	\$0.0	\$0.0	\$0.0		¢.00
Residential Consumer Products	0.002	\$0.0	-\$2.4	\$0.0		-\$0.01
Residential ConnectedSolutions	0.002	\$0.0	-\$3.0	\$0.0		N/A
Energy Efficiency Education Programs			\$0.0			
Residential Pilots			\$0.0			
Community Based Initiatives - Residential			\$0.0			
Comprehensive Marketing - Residential			\$0.0			
Residential Workforce Development			\$0.0			
Non-Income Eligible Residential SUBTOTAL	0.002	\$0.0	-\$39.7	\$0.0	\$4.7	-\$0.02
Income Eligible Residential						
Single Family - Income Eligible Services	0.003	\$0.0	-\$18.8	\$0.0		-\$0.08
Income Eligible Multifamily	0.002	\$0.0	-\$6.9	\$0.0		-\$0.04
Income Eligible Workforce Development			\$0.0			
Income Eligible Residential SUBTOTAL	0.003	\$0.0	-\$25.8	\$0.0	\$0.0	-\$0.07
Commercial & Industrial						
Large Commercial New Construction	0.054	\$0.0	-\$140.2	\$0.0		-\$0.09
Large Commercial Retrofit	0.023	-\$4,569.0	-\$2,064.5	-\$727.0		-\$0.20
Small Business Direct Install	0.001	\$0.0	-\$12.5	\$0.0		-\$0.02
Commercial ConnectedSolutions	0.004	\$0.0	-\$9.9	\$0.0		N/A
Commercial Pilots			\$0.0			
Community Based Initiatives - C&I			\$0.0			
Finance Costs			\$0.0			
Commercial Workforce Development			\$0.0			
C&I SUBTOTAL	0.018	-\$4,569.0	-\$2,227.1	-\$727.0	-\$70.8	-\$0.16
Regulatory						
OER			-\$42.2			
EERMC			-\$28.1			
Rhode Island Infrastructure Bank			\$0.0			
Regulatory SUBTOTAL			-\$70.3			
TOTAL	0.007	-\$4,569.0	-\$2,363	-\$727.0	-\$66.1	-\$0.01

Table E-5 - Economic Benefits
Rhode Island Energy
Calculation of 2023 Economic Benefits and Job Years
All Dollar Values in (\$000)

	Program Implementation Expenses¹	RI Economic Multiplier (GDP/\$ Program Impl.)	Economic Benefits	RI Job Years Multiplier (Job Years/\$M Program Impl.)	Job Years
Non-Income Eligible Residential					
Residential New Construction	-\$1.7	\$0.00	-\$2.6	-	(0.02)
ENERGY STAR® HVAC	-\$6.2	\$0.00	-\$9.7	-	(0.08)
EnergyWise	-\$24.7	\$0.00	-\$25.9	-	(0.30)
EnergyWise Multifamily	-\$1.8	\$0.00	-\$2.6	-	(0.03)
Home Energy Reports	\$0.0	\$0.00	\$0.0	-	-
Residential Consumer Products	-\$2.4	\$0.00	-\$2.7	-	(0.02)
Residential ConnectedSolutions	-\$3.0	\$0.00	-\$2.5	-	(0.02)
Energy Efficiency Education Programs	\$0.0		\$0.0		-
Residential Pilots	\$0.0		\$0.0		-
Community Based Initiatives - Residential	\$0.0		\$0.0		-
Comprehensive Marketing - Residential	\$0.0		\$0.0		-
Residential Workforce Development	\$0.0		\$0.0		-
Non-Income Eligible Residential SUBTOTAL	-\$39.7		-\$46.0		(0.47)
Income Eligible Residential					
Single Family - Income Eligible Services	-\$18.8	\$0.00	-\$18.1	-	(0.21)
Income Eligible Multifamily	-\$6.9	\$0.00	-\$9.0	-	(0.09)
Income Eligible Workforce Development	\$0.0		\$0.0		-
Income Eligible Residential SUBTOTAL	-\$25.8		-\$27.1		(0.30)
Commercial & Industrial					
Large Commercial New Construction	-\$140.2	\$0.00	-\$384.2	-	(2.66)
Large Commercial Retrofit	-\$2,064.5	\$0.00	-\$10,900.4	-	(106.11)
Small Business Direct Install	-\$12.5	\$0.00	-\$19.1	-	(0.15)
Commercial ConnectedSolutions	-\$9.9	\$0.00	-\$21.7	-	(0.17)
Commercial Pilots	\$0.0		\$0.0		-
Community Based Initiatives - C&I	\$0.0		\$0.0		-
Finance Costs	\$0.0		\$0.0		-
Commercial Workforce Development	\$0.0		\$0.0		-
C&I SUBTOTAL	-\$2,227.1		-\$11,325.4		(109.11)
Regulatory					
OER	-\$42.2		\$0.0		-
EERMC	-\$28.1		\$0.0		-
Rhode Island Infrastructure Bank	\$0.0		\$0.0		-
Regulatory SUBTOTAL	-\$70.3		\$0.0		-
TOTAL	-\$2,362.9		-\$11,398.5		(109.9)

Table E-5A
Rhode Island Energy
Calculation of 2023 Program Year Cost-Effectiveness with TRC Test
All Dollar Values in (\$000)

	TRC Benefit/ Cost¹	Total Benefit	Program Implementation Expenses²	Customer Contribution	Performance Incentive	¢/Lifetime kWh
Non-Income Eligible Residential						
Residential New Construction	0.00	\$0.0	-\$1.7	\$0.0		0.0
ENERGY STAR® HVAC	0.00	\$0.0	-\$6.2	\$0.0		0.0
EnergyWise	0.00	\$0.0	-\$24.7	\$0.0		-0.1
EnergyWise Multifamily	0.00	\$0.0	-\$1.8	\$0.0		0.0
Home Energy Reports	0.00	\$0.0	\$0.0	\$0.0		0.0
Residential Consumer Products	0.00	\$0.0	-\$2.4	\$0.0		0.0
Residential ConnectedSolutions	0.00	\$0.0	-\$3.0	\$0.0		N/A
Energy Efficiency Education Programs			\$0.0			0.0
Residential Pilots			\$0.0			0.0
Community Based Initiatives - Residential			\$0.0			0.0
Comprehensive Marketing - Residential			\$0.0			0.0
Non-Income Eligible Residential SUBTOTAL	0.00	\$0.0	-\$39.7	\$0.0	\$4.7	0.0
Income Eligible Residential						
Single Family - Income Eligible Services	0.00	\$0.0	-\$18.8	\$0.0		-0.1
Income Eligible Multifamily	0.00	\$0.0	-\$6.9	\$0.0		0.0
Income Eligible Residential SUBTOTAL	0.00	\$0.0	-\$25.8	\$0.0	\$0.0	-0.1
Commercial & Industrial						
Large Commercial New Construction	0.04	\$0.0	-\$140.2	\$0.0		-0.1
Large Commercial Retrofit	0.02	-\$3,671.8	-\$2,064.5	-\$727.0		-0.2
Small Business Direct Install	0.00	\$0.0	-\$12.5	\$0.0		0.0
Commercial ConnectedSolutions	0.00	\$0.0	-\$9.9			N/A
Commercial Pilots			\$0.0			
Community Based Initiatives - C&I			\$0.0			
Finance Costs			\$0.0			
Commercial Workforce Development			\$0.0			
C&I SUBTOTAL	0.02	-\$3,671.8	-\$2,227.1	-\$727.0	-\$70.8	-0.2
Regulatory						
OER			-\$42.2			
EERMC			-\$28.1			
Rhode Island Infrastructure Bank			\$0.0			
Regulatory SUBTOTAL			-\$70.3			
TOTAL	0.01	-\$3,671.8	-\$2,362.9	-\$727.0	-\$66.1	0.0

Table E-6
Rhode Island Energy
Summary of 2023 Benefits by Program (Energy Efficiency Measures)

	Benefits (000s)																			
	Total	Total (Economic Excluded)	Capacity					Energy				Non Electric				Societal				
			Summer Generation	Capacity DRIPE	Trans	Dist	Reliability	Winter		Summer		Electric Energy DRIPE	Natural Gas	Oil	Other Resource	Non Resource	Carbon	NOx	Economic	
								Peak	Off Peak	Peak	Off Peak									
Non-Income Eligible Residential																				
Residential New Construction	-53	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	-53
ENERGY STAR® HVAC	-110	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	-110
EnergyWise	-526	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	-526
EnergyWise Multifamily	-53	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	-53
Home Energy Reports	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Residential Consumer Products	-53	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	-53
Non-Income Eligible Residential SUBTOTAL	-544	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	-544
Income Eligible Residential																				
Single Family - Income Eligible Services	-118	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	-118
Income Eligible Multifamily	-59	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	-59
Income Eligible Residential SUBTOTAL	-527	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	-527
Commercial & Industrial																				
Large Commercial New Construction	-384	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	-384
Large Commercial Retrofit	-15,469	-54,569	-143	-5427	-5364	-5413	-55	-5394	-5277	-5225	-1443	-5562	\$47	\$7	\$0	-5770	-5891	-58	-10,900	
Small Business Direct Install	-19	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	-19
C&I SUBTOTAL	-15,873	-54,569	-143	-5427	-5364	-5413	-55	-5394	-5277	-5225	-1443	-5562	\$47	\$7	\$0	-5770	-5891	-58	-11,304	
TOTAL	-15,943	-54,569	-143	-5427	-5364	-5413	-55	-5394	-5277	-5225	-1443	-5562	\$47	\$7	\$0	-5770	-5891	-58	-11,374	

Table E-6B
Rhode Island Energy
Summary of 2023 Demand Response Benefits and Savings

	Benefits (000's)														Load Reduction (MW)	MWh Saved		
	Total	Total (Economic Excluded)	Capacity					Energy				Non Electric	Societal			Summer	Annual	Lifetime
			Summer Generation	Capacity DRIPE	Trans	Dist	Reliability	Winter		Summer			Energy DRIPE	Carbon	Economic			
								Peak	Off Peak	Peak	Off Peak							
Non-Income Eligible Residential																		
Residential Connected Solutions	\$-2	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$-2	0.0	0.0	0.0
Commercial & Industrial																		
Commercial Connected Solutions	\$-22	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$-22	0.0	0.0	0.0	
TOTAL	\$-24	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$-24	0.0	0.0	0.0	

Table E-6A
Rhode Island Energy
Summary of 2023 Impacts by Program (Energy Efficiency Measures)

	Electric Energy Savings						Gas Savings			Oil Saved			Propane Saved			Total Savings (Electric, Gas, Oil, Propane)				
	Load Reduction in kW		MWh		MMBtu		short tons CO ₂	MMBtu		short tons CO ₂	MMBtu		short tons CO ₂	MMBtu		short tons CO ₂	MMBtu		short tons CO ₂	
	Summer	Winter	Annual	Lifetime	Annual	Lifetime	Annual ²	Annual	Lifetime	Annual ²	Annual	Lifetime	Annual ²	Annual	Lifetime	Annual ²	Annual	Lifetime	Annual ²	
Non-Income Eligible Residential																				
Residential New Construction	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ENERGY STAR® HVAC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EnergyWise	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EnergyWise Multifamily	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Home Energy Reports	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Residential Consumer Products	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Non-Income Eligible Residential SUBTOTAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Income Eligible Residential																				
Single Family - Income Eligible Services	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Income Eligible Multifamily	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Income Eligible Residential SUBTOTAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Commercial & Industrial																				
Large Commercial New Construction	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Large Commercial Retrofit	(553)	(459)	(3,075)	(17,058)	(10,493)	(58,202)	(1,693)	1,462	5,654	106	55	330	7	-	-	-	(8,976)	(52,218)	(1,580)	
Small Business Direct Install	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C&I SUBTOTAL	(553)	(459)	(3,075)	(17,058)	(10,493)	(58,202)	(1,693)	1,462	5,654	106	55	330	7	-	-	-	(8,976)	(52,218)	(1,580)	
TOTAL	(553)	(459)	(3,075)	(17,058)	(10,493)	(58,202)	(1,693)	1,462	5,654	106	55	330	7	-	-	-	(8,976)	(52,218)	(1,580)	

Table E-7
Rhode Island Energy
Comparison of 2023 and 2022 Goals and Tracking

	Proposed 2023 Goal		Proposed 2023 Tracking				Approved 2022				Difference			
	Lifetime Electric Energy Savings (MWh)	Active Demand Response (kW)	Annual Electric Energy Savings (MWh)	Annual Passive Summer Demand Savings (kW)	Total Net Lifetime Energy Savings (MMBtu)	Planned Unique Participants	Lifetime Electric Energy Savings (MWh)	Annual Electric Energy Savings (MWh)	Annual Passive Summer Demand Savings (kW)	Active Demand Response (kW)	Lifetime Electric Energy Savings (MWh)	Annual Electric Energy Savings (MWh)	Annual Passive Summer Demand Savings (kW)	Active Demand Response (kW)
Non-Income Eligible Residential														
Residential New Construction	0		0	0	0	0	0	0	0		0	0	0	
ENERGY STAR® HVAC	0		0	0	0	0	0	0	0		0	0	0	
EnergyWise	0		0	0	0	0	0	0	0		0	0	0	
EnergyWise Multifamily	0		0	0	0	0	0	0	0		0	0	0	
Home Energy Reports	0		0	0	0	0	0	0	0		0	0	0	
ENERGY STAR® Lighting	0		0	0	0	0	0	0	0		0	0	0	
Residential Consumer Products	0		0	0	0	0	0	0	0		0	0	0	
Residential ConnectedSolutions		0				0				0				0
Non-Income Eligible Residential SUBTOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Income Eligible Residential														
Single Family - Income Eligible Services	0		0	0	0	0	0	0	0		0	0	0	
Income Eligible Multifamily	0		0	0	0	0	0	0	0		0	0	0	
Income Eligible Residential SUBTOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Commercial & Industrial														
Large Commercial New Construction	0		0	0	0	0	0	0	0		0	0	0	
Large Commercial Retrofit	-17,058		-3,075	-553	-52,218	0	0	0	0		-17,058	-3,075	-553	
Small Business Direct Install	0		0	0	0	0	0	0	0		0	0	0	
Commercial ConnectedSolutions		0				0				0				0
C&I SUBTOTAL	-17,058	0	-3,075	-553	-52,218	0	0	0	0	0	-17,058	-3,075	-553	0
TOTAL	-17,058	0	-3,075	-553	-52,218	0	0	0	0	0	-17,058	-3,075	-553	0

Table E-8A
Rhode Island Energy
2023 Electric PIM Benefits, Allocations, and Categorization (\$000)

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	
	Capacity			Energy					Non Electric				Societal						
	Summer Generation	Capacity DRIPE	Transmission	Distribution	Reliability	Winter Peak Energy	Winter Off Peak Energy	Summer Peak Energy	Summer Off Peak Energy	Electric Energy DRIPE	Utility NEIs	Natural Gas and DRIPE	Oil and Oil DRIPE	Propane and Water	Non Resource	Carbon	NOx	Economic	
Non-Income Eligible Residential																			
Residential New Construction	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	-\$3
ENERGY STAR® HVAC	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	-\$10
EnergyWise	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	-\$26
EnergyWise Multifamily	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	-\$3
Home Energy Reports	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Residential Consumer Products	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	-\$3
Non-Income Eligible Residential SUBTOTAL	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	-\$44
Income Eligible Residential																			
Single Family - Income Eligible Services	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	-\$18
Income Eligible Multifamily	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	-\$9
Income Eligible Residential SUBTOTAL	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	-\$27
Commercial & Industrial																			
Large Commercial New Construction	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	-\$384
Large Commercial Retrofit	-\$143	-\$427	-\$364	-\$413	-\$5	-\$394	-\$277	-\$225	-\$143	-\$562	\$0	\$47	\$7	\$0	-\$770	-\$891	-\$8	-\$8	-\$10,900
Small Business Direct Install	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	-\$19
C&I SUBTOTAL	-\$143	-\$427	-\$364	-\$413	-\$5	-\$394	-\$277	-\$225	-\$143	-\$562	\$0	\$47	\$7	\$0	-\$770	-\$891	-\$8	-\$8	-\$11,304
Included in PIM? (Y/N)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	N	N	N	N
Percent Application in PIM	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	50%	50%	50%	0%	0%	0%	0%	0%
Category	Electric Utility System Benefits	Electric Utility System Benefits	Electric Utility System Benefits	Electric Utility System Benefits	Electric Utility System Benefits	Electric Utility System Benefits	Electric Utility System Benefits	Electric Utility System Benefits	Electric Utility System Benefits	Electric Utility System Benefits	Electric Utility System Benefits	Resource Benefits	Resource Benefits	Resource Benefits	NA	NA	NA	NA	NA

Table E-8B
Rhode Island Energy
2023 Electric PIM Costs

	(1)	(2)	(3)
	Costs (\$)		
	Eligible Spending Budget from Table E-3	Regulatory Costs	Total Costs for PIM Calculations
Non-Income Eligible Residential SUBTOTAL	-\$37	-\$9	-\$46
Income Eligible Residential SUBTOTAL	-\$26	-\$9	-\$35
C&I SUBTOTAL	-\$2,217	-\$9	-\$2,227
Included in PIM? (Y/N)	Y	Y	Y

Table E-8C
Rhode Island Energy
2023 Electric PIM and SQA

Sector PI = min(Payout Cap(i), [Actual Net Benefits* Design Payout Rate(g) * Payout Rate Adjustment(i)])

Sector	Planned Eligible Benefits		Planned Eligible Costs	Planned Eligible Net Benefits (4)	Design Performance Achievement	Design Performance Payout	Design Payout Rate	Design Payout Rate Thresholds	Payout Rate Adjustments	Payout Cap	Service Quality Metric
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)
	100% Electric Utility System Benefits	50% Resource Benefits	Eligible Spending Budget + Regulatory Costs	=(a)-(b)-(c)	Net benefits at which design incentive pool is achieved	Set by PUC	=(f)/(e)	Achievement levels at which the Payout Rate Adjustments in (i) will be applied—Set by PUC	Factor to adjust Design Payout Rate for if final program achievement fall within the ranges in (h)—Set by PUC	=1.25*(f)	Yes if (d) ≤ 0; No if (d) >0
Non-Income Eligible Residential	\$0	\$0	-\$46,097	\$46,097	\$46,097	\$4,658	0.0%	a. Achievement < 25% b. 25% ≤ Achievement < 50% c. 50% ≤ Achievement < 75% d. 75% ≤ Achievement • Spending > Planned Eligible Costs	a. 0.0 b. Achievement/100 + 0.1 c. Achievement/100 + 0.25 d. 1.0 • See Boundary Rules	\$5,823	No
Income Eligible Residential	\$0	\$0	-\$35,130	\$35,130	\$0	\$0	0.00%			\$0	Yes
Commercial & Industrial	-\$2,954,241	\$27,267	-\$2,226,561	-\$700,413	-\$700,413	-\$70,778	0.0%			-\$88,473	No

Sector SQA = Maximum Service Adjustment(e) * Service Achievement Scaling Factor(g)

	Planned Eligible Benefits		Planned Eligible Costs	Design Service Achievement	Maximum Service Adjustment	Service Adjustment Thresholds	Service Achievement Scaling Factors	Achievement Cost Adjustment
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
	100% Electric Utility System Benefits	50% Resource Benefits	Eligible Spending Budget + Regulatory Costs	=(a)+(b)	Maximum downward adjustment to earned incentive—Set by PUC	Adjusted Achievement levels at which the Service Adjustments in (e) will be applied; adjustment is calculated in (h)	Factor to scale program achievement that fall within the ranges in (f)	Actual-cost-based adjustment factor applied to achievement. Result is if the difference between achievement and cost variances are greater than 5%, the Actual Achievement will be adjusted for use in
Non-Income Eligible Residential	\$0	\$0	-\$46,097	\$0	\$0			Performance Variance = "Actual Benefits" / "Design Achievement" - "Spending" / "Planned Eligible Cost"
Income Eligible Residential	\$0	\$0	-\$35,130	\$0	\$0	a. Adjusted Achievement < 65% b. 65% ≤ Adjusted Achievement < 95% c. 95% ≤ Adjusted Achievement	a. 1 b. (95-Adjusted Achievement)/30 c. 0	If the absolute value (Performance Variance) ≤ 0.05, Then Adjusted Achievement = Actual Achievement Else Adjusted Achievement = Actual Achievement * (1+ Performance Variance)
Commercial & Industrial	-\$2,954,241	\$27,267	-\$2,226,561	-\$2,926,974	\$0			

Table E-9
Rhode Island Energy
Revolving Loan Fund Projections

Large C&I Revolving Loan Fund			Small Business Revolving Loan Fund		
(1)	Total Loan Fund Deposits Through 2022	\$ -	(1)	Total Loan Fund Deposits Through 2022	\$ -
(2)	Current Loan Fund Balance	\$ -	(2)	Current Loan Fund Balance	\$ -
	<i>Loans Paid Year-To-Date</i>	\$ -		<i>Loans Paid Year-To-Date</i>	\$ -
	<i>Repayments Year-To-Date</i>	\$ -		<i>Repayments Year-To-Date</i>	\$ -
(3)	Projected Additional Loans by Year End 2022	\$ -	(3)	Projected Additional Loans by Year End 2022	\$ -
(4)	Projected Additional Repayments by Year End 2022	\$ -	(4)	Projected Additional Repayments by Year End 2022	\$ -
(5)	Projected Year End Loan Fund Balance 2022	\$ -	(5)	Projected Year End Loan Fund Balance 2022	\$ -
(6)	<u>2023 Fund Injection</u>	<u>\$ -</u>	(6)	<u>2023 Fund Injection</u>	<u>\$ -</u>
(7)	Projected Loan Fund Balance, January 2023	\$ -	(7)	Projected Loan Fund Balance, January 2023	\$ -
(8)	Projected Repayments throughout 2023	\$ -	(8)	Projected Repayments throughout 2023	\$ -
(9)	Estimated Loans in 2023	\$ -	(9)	Estimated Loans in 2023	\$ -
(10)	Projected Year End Loan Fund Balance 2023	\$ -	(10)	Projected Year End Loan Fund Balance 2023	\$ -
Public Sector Revolving Loan Fund			Efficient Buildings Fund		
(1)	Total Loan Fund Deposits Through 2022	\$ -	(1)	Energy Efficiency Funds allocated to EBF through 2021	\$ -
(2)	Current Loan Fund Balance	\$ -	(2)	Total EBF Loans Outstanding	\$ -
	<i>Funds returned to OER</i>	\$ -			
	<i>Repayments Year-To-Date</i>	\$ -			
(3)	Projected Additional Loans by Year End	\$ -			
(4)	Projected Additional Repayments by Year End	\$ -			
(5)	Projected Year End Loan Fund Balance 2022	\$ -			
(6)	<u>2023 Fund Injection</u>	<u>\$ -</u>			
(7)	Projected Loan Fund Balance, January 2023	\$ -			
(8)	Projected Repayments throughout 2023	\$ -			
(9)	Estimated Loans in 2023	\$ -			
(10)	Projected Year End Loan Fund Balance 2023	\$ -			

Table G-1
Rhode Island Energy
Gas DSM Funding Sources in 2023 by Sector
\$(000)

	<u>Projections by Sector</u>			Total
	Income Eligible Residential	Non-Income Eligible Residential	Commercial & Industrial	
(1) Projected Budget (from G-2):	(\$14.5)	(\$27.0)	(\$9.4)	(\$50.9)
Sources of Other Funding:				
(2) Projected Year-End 2022 Fund Balance and Interest:	\$0.0	\$0.0	\$0.0	\$0.0
(3) <i>Prior Years Investigation Credit:</i>	<i>\$0.0</i>	<i>\$0.0</i>	<i>\$0.0</i>	<i>\$0.0</i>
(4) Total Other Funding:	\$0.0	\$0.0	\$0.0	\$0.0
(5) Customer Funding Required:	(\$14.5)	(\$27.0)	(\$9.4)	(\$50.9)
(6) Forecasted Firm Dth Volume	-	-	-	-
(7) Forecasted Non Firm Dth Volume	-	-	-	-
(8) Less: Exempt DG Customers	-	-	-	-
(9) Forecasted Dth Volume:	-	-	-	-
(10) Average Energy Efficiency Program Charge per Dth excluding Uncollectible Recovery:	\$ -	\$0.000	\$0.000	(\$0.002)
(11) Proposed Energy Efficiency Program Charge per Dth excluding Uncollectible Recovery	-\$0.002	-\$0.002	-\$0.001	
(12) Currently Effective Uncollectible Rate	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	
(13) Proposed Energy Efficiency Program Charge per Dth, including Uncollectible Recovery:	(\$0.002)	(\$0.002)	(\$0.0010)	
(14) Currently Effective Energy Efficiency Program Charge per Dth	\$0.000	\$0.000	\$0.0000	
(15) Adjustment to Reflect Fully Reconciling Funding Mechanism	(\$0.002)	(\$0.002)	(\$0.001)	

Table G-2
Rhode Island Energy
2023 Gas Energy Efficiency Program Budget (\$000)

	Program Planning & Administration	Marketing	Rebates and Other Customer Incentives	Sales, Tech Assist & Training	Evaluation & Market Research	Performance Incentive	Grand Total
Non-Income Eligible Residential:							
ENERGY STAR® HVAC	-\$6.3	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	-\$6.3
EnergyWise	-\$17.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	-\$17.0
EnergyWise Multifamily	-\$2.5	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	-\$2.5
Home Energy Reports	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Residential Pilots	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Residential New Construction	-\$0.8	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	-\$0.8
Comprehensive Marketing - Residential	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Community Based Initiatives - Residential	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Residential Workforce Development	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Residential Performance Incentive	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Subtotal - Non-Income Eligible Residential	-\$26.5	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	-\$26.5
Income Eligible Residential:							
Single Family - Income Eligible Services	-\$8.8	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	-\$8.8
Income Eligible Multifamily	-\$5.6	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	-\$5.6
Income Eligible Workforce Development	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Income Eligible Performance Incentive	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Subtotal - Income Eligible Residential	-\$14.4	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	-\$14.4
Commercial & Industrial							
Large Commercial New Construction	-\$3.2	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	-\$3.2
Large Commercial Retrofit	-\$4.6	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	-\$4.6
Small Business Direct Install	-\$1.3	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	-\$1.3
Commercial & Industrial Multifamily	-\$1.4	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	-\$1.4
Commercial Pilots	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Finance Costs	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Community Based Initiatives - C&I	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Commercial Workforce Development	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Commercial & Industrial Performance Incentive	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$1.6	\$1.6
Subtotal - Commercial & Industrial	-\$10.5	\$0.0	\$0.0	\$0.0	\$0.0	\$1.6	-\$8.9
Regulatory							
EERMC	-\$9.4	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	-\$9.4
ORER	\$8.4	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$8.4
Rhode Island Infrastructure Bank	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Subtotal - Regulatory	-\$1.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	-\$1.0
Grand Total	-\$52.4	\$0.0	\$0.0	\$0.0	\$0.0	\$1.6	-\$50.9

Table G-3
Rhode Island Energy
Derivation of the 2023 Eligible PIM & Implementation Budgets (\$000)

	Proposed 2023 Budget From G-2 (\$000)	Outside Finance and Stakeholder Oversight Costs (\$000)	Performance Incentive (\$000)	Eligible Sector PIM Budget for Performance Incentive on G-8 (\$000) ¹	Implementation Expenses for Cost-Effectiveness on G-5 (\$000) ²
Non-Income Eligible Residential					
ENERGY STAR® HVAC	\$-6.3				\$-6.3
EnergyWise	\$-17.0				\$-17.0
EnergyWise Multifamily	\$-2.5				\$-2.5
Home Energy Reports	\$0.0				\$0.0
Residential Pilots	\$0.0				\$0.0
Residential New Construction	\$-0.8				\$-0.8
Comprehensive Marketing - Residential	\$0.0				\$0.0
Community Based Initiatives - Residential	\$0.0				\$0.0
Residential Workforce Development	\$0.0				\$0.0
Residential Performance Incentive	\$0.0		\$0.0		\$0.0
Subtotal - Non-Income Eligible Residential	\$-26.5	\$0.0	\$0.0	-\$26.5	-\$26.5
Income Eligible Residential					
Single Family - Income Eligible Services	\$-8.8				\$-8.8
Income Eligible Multifamily	\$-5.6				\$-5.6
Income Eligible Workforce Development	\$0.0				\$0.0
Income Eligible Performance Incentive	\$0.0		\$0.0		\$0.0
Subtotal - Income Eligible Residential	-\$14.4	\$0.0	\$0.0	-\$14.4	-\$14.4
Commercial & Industrial					
Large Commercial New Construction	\$-3.2				\$-3.2
Large Commercial Retrofit	\$-4.6				\$-4.6
Small Business Direct Install	\$-1.3				\$-1.3
Commercial & Industrial Multifamily	\$-1.4				\$-1.4
Commercial Pilots	\$0.0				\$0.0
Finance Costs	\$0.0				\$0.0
Community Based Initiatives - C&I	\$0.0				\$0.0
Commercial Workforce Development	\$0.0				\$0.0
Commercial & Industrial Performance Incentive	\$1.6		\$1.6		\$0.0
Subtotal - Commercial & Industrial	-\$8.9	\$0.0	\$1.6	-\$10.5	-\$10.5
Regulatory					
EERMC	\$-9.4	\$-9.4			\$-9.4
OER	\$8.4	\$8.4			\$8.4
Rhode Island Infrastructure Bank	\$0.0	\$0.0			\$0.0
Subtotal - Regulatory	-\$1.0	-\$1.0			-\$1.0
Grand Total	-\$50.9	-\$1.0	\$1.6	-\$51.4	-\$52.4

Table G-4
Rhode Island Energy
Proposed 2023 Budget Compared to Approved 2022 Budget (\$000)

	Proposed Implementation Budget 2023	Approved Implementation Budget 2022	Difference
Non-Income Eligible Residential			
ENERGY STAR® HVAC	-\$6.3	\$0.0	-\$6.3
EnergyWise	-\$17.0	\$0.0	-\$17.0
EnergyWise Multifamily	-\$2.5	\$0.0	-\$2.5
Home Energy Reports	\$0.0	\$0.0	\$0.0
Residential Pilots	\$0.0	\$0.0	\$0.0
Residential New Construction	-\$0.8	\$0.0	-\$0.8
Comprehensive Marketing - Residential	\$0.0	\$0.0	\$0.0
Community Based Initiatives - Residential	\$0.0	\$0.0	\$0.0
Residential Performance Incentive	\$0.0	\$0.0	\$0.0
Subtotal - Non-Income Eligible Residential	-\$26.5	\$0.0	-\$26.5
Income Eligible Residential			
Single Family - Income Eligible Services	-\$8.8	\$0.0	-\$8.8
Income Eligible Multifamily	-\$5.6	\$0.0	-\$5.6
Income Eligible Performance Incentive	\$0.0	\$0.0	\$0.0
Subtotal - Income Eligible Residential	-\$14.4	\$0.0	-\$14.4
Commercial & Industrial			
Large Commercial New Construction	-\$3.2	\$0.0	-\$3.2
Large Commercial Retrofit	-\$4.6	\$0.0	-\$4.6
Small Business Direct Install	-\$1.3	\$0.0	-\$1.3
Commercial & Industrial Multifamily	-\$1.4	\$0.0	-\$1.4
Commercial Pilots	\$0.0	\$0.0	\$0.0
Finance Costs	\$0.0	\$0.0	\$0.0
Community Based Initiatives - C&I	\$0.0	\$0.0	\$0.0
Commercial Workforce Development	\$0.0	\$0.0	\$0.0
Commercial & Industrial Performance Incentive	\$1.6	\$0.0	\$1.6
Subtotal Commercial & Industrial	-\$8.9	\$0.0	-\$8.9
Regulatory			
EERMC	-\$9.4	\$0.0	-\$9.4
OER	\$8.4	\$0.0	\$8.4
Rhode Island Infrastructure Bank	\$0.0	\$0.0	\$0.0
Subtotal Regulatory	-\$1.0	\$0.0	-\$1.0
TOTAL BUDGET	-\$50.9	\$0.0	-\$50.9

**Table G-5 - Primary
Rhode Island Energy
Calculation of 2023 Program Year Cost-Effectiveness
All Dollar Values in (\$000)**

	Rhode Island Benefit/ Cost¹	Total Benefit	Program Implementation Expenses²	Customer Contribution	Performance Incentive	\$/Lifetime MMBtu
Non-Income Eligible Residential						
Energy Star® HVAC	0.00	\$0.0	-\$6.3	\$0.0		-\$0.01
EnergyWise	0.00	\$0.0	-\$17.0	\$0.0		-\$0.03
EnergyWise MultiFamily	0.01	\$0.0	-\$2.5	\$0.0		-\$0.02
Home Energy Reports	0.00	\$0.0	\$0.0	\$0.0		\$0.00
Residential New Construction	0.00	\$0.0	-\$0.8	\$0.0		-\$0.01
Comprehensive Marketing - Residential			\$0.0			
Community Based Initiatives - Residential			\$0.0			
Residential Pilots			\$0.0			
Non-Income Eligible Residential Subtotal	0.00	\$0.0	-\$26.5	\$0.0		-\$0.02
Income Eligible Residential						
Single Family - Income Eligible Services	0.00	\$0.0	-\$8.8	\$0.0		-\$0.05
Income Eligible Multifamily	0.01	\$0.0	-\$5.6	\$0.0		-\$0.03
Income Eligible Residential Subtotal	0.00	\$0.0	-\$14.4	\$0.0		-\$0.04
Large Commercial & Industrial						
Large Commercial New Construction	0.01	\$0.0	-\$3.2	\$0.0		\$0.00
Large Commercial Retrofit	0.00	\$0.0	-\$4.6	\$0.0		\$0.00
Small Business Direct Install	0.00	\$0.0	-\$1.3	\$0.0		-\$0.01
Commercial & Industrial Multifamily	0.01	\$0.0	-\$1.4	\$0.0		-\$0.02
Commercial Pilots			\$0.0			
Community Based Initiatives - C&I			\$0.0			
Finance Costs			\$0.0			
Commercial Workforce Development			\$0.0			
Commercial & Industrial Subtotal	0.00	\$0.0	-\$10.5	\$0.0		-\$0.01
Regulatory						
EERMC			-\$9.4			
OER			\$8.4			
Rhode Island Infrastructure Bank			\$0.0			
Regulatory Subtotal			-\$1.0			
Grand Total	0.00	\$0.0	-\$52.4	\$0.0	\$0.0	-\$0.01

Table G-5 - Economic Benefits
Rhode Island Energy
Calculation of 2023 Economic Benefits and Job Years
All Dollar Values in (\$000)

	Program Implementation Expenses¹	RI Economic Multiplier (GDP/\$ Program Impl.)	Economic Benefits	RI Job Years Multiplier (Job Years/\$M Program Impl.)	Job Years
Non-Income Eligible Residential					
Energy Star® HVAC	-\$6	\$0.97	-\$6.1	6.9	(0)
EnergyWise	-\$17	\$1.08	-\$18.4	11.9	(0)
EnergyWise MultiFamily	-\$2	\$1.70	-\$4.2	16.5	(0)
Home Energy Reports	\$0	\$1.12	\$0.0	7.5	-
Residential New Construction	-\$1	\$0.34	-\$0.3	2.4	(0)
Comprehensive Marketing - Residential	\$0		\$0.0		
Community Based Initiatives - Residential	\$0		\$0.0		
Residential Pilots	\$0		\$0.0		
Non-Income Eligible Residential SUBTOTAL	-\$27		-\$28.9		(0)
Income Eligible Residential					
Single Family - Income Eligible Services	-\$9	\$1.05	-\$9.3	12.1	(0)
Income Eligible Multifamily	-\$6	\$1.62	-\$9.1	16.0	(0)
Income Eligible Residential SUBTOTAL	-\$14		-\$18.4		(0)
Commercial & Industrial					
Large Commercial New Construction	-\$3	\$0.74	-\$2.4	1.2	(0)
Large Commercial Retrofit	-\$5	\$2.10	-\$9.6	16.4	(0)
Small Business Direct Install	-\$1	\$1.39	-\$1.8	13.4	(0)
Commercial & Industrial Multifamily	-\$1	\$1.55	-\$2.2	11.0	(0)
Commercial Pilots	\$0		\$0.0		
Community Based Initiatives - C&I	\$0		\$0.0		
Finance Costs	\$0		\$0.0		
Commercial Workforce Development	\$0		\$0.0		
C&I SUBTOTAL	-\$10		-\$15.9		(0)
Regulatory					
OER	\$8		\$0.0		-
EERMC	-\$9		\$0.0		-
Rhode Island Infrastructure Bank	\$0		\$0.0		-
Regulatory SUBTOTAL	-\$1		\$0.0		-
TOTAL	-\$52		-\$63.2		(1)

Table G-5A
Rhode Island Energy
Calculation of 2023 Program Year Cost-Effectiveness with TRC Test
All Dollar Values in (\$000)

	TRC Benefit/ Cost	Total Benefit	Program Implementation Expenses	Customer Contribution	Performance Incentive	\$/Lifetime MMBtu
Non-Income Eligible Residential						
Energy Star® HVAC	0.00	\$0.0	-\$6.3	\$0.0		-\$0.01
EnergyWise	0.00	\$0.0	-\$17.0	\$0.0		-\$0.03
EnergyWise MultiFamily	0.01	\$0.0	-\$2.5	\$0.0		-\$0.02
Home Energy Reports	0.00	\$0.0	\$0.0	\$0.0		\$0.00
Residential New Construction	0.00	\$0.0	-\$0.8	\$0.0		-\$0.01
Comprehensive Marketing - Residential			\$0.0			
Community Based Initiatives - Residential			\$0.0			
Residential Pilots			\$0.0			
Residential Workforce Development			\$0.0			
Non-Income Eligible Residential Subtotal	0.00	\$0.0	-\$26.5	\$0.0	\$0.0	-\$0.02
Income Eligible Residential						
Single Family - Income Eligible Services	0.00	\$0.0	-\$8.8	\$0.0		-\$0.05
Income Eligible Multifamily	0.00	\$0.0	-\$5.6	\$0.0		-\$0.03
Income Eligible Workforce Development			\$0.0			\$0.00
Income Eligible Residential Subtotal	0.00	\$0.0	-\$14.4	\$0.0	\$0.0	-\$0.04
Large Commercial & Industrial						
Large Commercial New Construction	0.00	\$0.0	-\$3.2	\$0.0		\$0.00
Large Commercial Retrofit	0.00	\$0.0	-\$4.6	\$0.0		\$0.00
Small Business Direct Install	0.00	\$0.0	-\$1.3	\$0.0		-\$0.01
Commercial & Industrial Multifamily	0.01	\$0.0	-\$1.4	\$0.0		-\$0.02
Commercial Pilots			\$0.0	\$0.0		
Community Based Initiatives - C&I			\$0.0	\$0.0		
Finance Costs			\$0.0	\$0.0		
Commercial Workforce Development			\$0.0	\$0.0		
Commercial & Industrial Subtotal	0.00	\$0.0	-\$10.5	\$0.0	\$1.6	-\$0.01
Regulatory						
EERMC			-\$9.4			
OER			\$8.4			
Rhode Island Infrastructure Bank			\$0.0			
Regulatory Subtotal			-\$1.0			
Grand Total	0.00	\$0.0	-\$52.4	\$0.0	\$1.6	-\$0.01

Table G-7
Rhode Island Energy
Comparison of 2023 and 2022 Goals

	Proposed 2023 Goal	Proposed 2023 Tracking		Approved 2022		Difference	
	Lifetime Energy Savings (MMBtu Natural Gas)	Annual Energy Savings (MMBtu Natural Gas)	Planned Unique Participants	Lifetime Energy Savings (MMBtu Natural Gas)	Annual Energy Savings (MMBtu Natural Gas)	Lifetime Energy Savings (MMBtu Natural Gas)	Annual Energy Savings (MMBtu Natural Gas)
Non-Income Eligible Residential							
EnergyWise	0	0	0	478,550	20,850	0	0
Energy Star® HVAC	0	0	0	439,717	26,740	0	0
EnergyWise Multifamily	0	0	0	147,064	8,279	0	0
Home Energy Reports	0	0	0	93,548	93,548	0	0
Residential New Construction	0	0	0	64,899	3,610	0	0
Non-Income Eligible Residential SUBTOTAL	0	0	0	1,223,778	153,027	0	0
Income Eligible Residential							
Single Family - Income Eligible Services	0	0	0	218,847	10,942	0	0
Income Eligible Multifamily	0	0	0	273,085	14,700	0	0
Income Eligible Residential SUBTOTAL	0	0	0	491,932	25,642	0	0
Commercial & Industrial							
Large Commercial New Construction	0	0	0	788,763	52,956	0	0
Large Commercial Retrofit	0	0	0	1,332,508	142,888	0	0
Small Business Direct Install	0	0	0	91,700	6,113	0	0
Commercial & Industrial Multifamily	0	0	0	131,220	8,803	0	0
Commercial & Industrial SUBTOTAL	0	0	0	2,344,192	210,760	0	0
TOTAL	0	0	0	4,059,902	389,430	0	0

**Table G-8B - Compliance Filing
Rhode Island Energy
2023 Gas PIM Costs (\$000)**

	(1)	(2)	(3)
	Costs (\$)		
	Eligible Spending Budget from Table G-3	Regulatory Costs	Total Costs for PIM Calculations
Non-Income Eligible Residential SUBTOTAL	-\$27	-\$3	-\$30
Income Eligible Residential SUBTOTAL	-\$14	-\$3	-\$18
Commercial & Industrial SUBTOTAL	-\$10	-\$3	-\$14
Included in PIM? (Y/N)	Y	Y	Y

Table G-8C
Rhode Island Energy
2023 Gas PIM and SQA

Sector PI = min[Payout Cap(j), [Actual Net Benefits * Design Payout Rate(g) * Payout Rate Adjustment(i)]]

Sector	Planned Eligible Benefits		Planned Eligible Costs	Planned Eligible Net Benefits (4)	Design Performance Achievement	Design Performance Payout	Design Payout Rate	Design Payout Rate Thresholds	Payout Rate Adjustments	Payout Cap	Service Quality Metric
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)
	100% Gas Utility System Benefits	50% Resource Benefits	Eligible Spending Budget + Regulatory Costs	=(a)+(b)-(c)	Net benefits at which design incentive pool is achieved	Set by PUC	=(f)/(e)	Achievement levels at which the Payout Rate Adjustments in (i) will be applied—Set by PUC	Factor to adjust Design Payout Rate for if final program achievement fall within the ranges in (h)—Set by PUC	=1.25*(f)	Yes if (d) ≤ 0; No if (d) > 0
										Cap on sector payout regardless of achievement in sector	See Service Quality Table
Non-Income Eligible Residential	\$0	\$0	-\$29,649	\$29,649	\$0	\$0	25.0%	a. Achievement < 25% b. 25% ≤ Achievement < 50% c. 50% ≤ Achievement < 75% d. 75% ≤ Achievement • Spending > Planned Eligible Costs	a.0.0 b.Achievement/100 + 0.1 c.Achievement/100 + 0.25 d.1.0 •See Boundary Rules	\$0	No
Income Eligible Residential	\$0	\$0	-\$17,569	\$17,569	\$0	\$0	25.0%			\$0	No
Commercial & Industrial	\$0	\$0	-\$13,591	\$13,591	\$13,591	\$1,590	11.7%			\$1,988	No

Sector SQA = Maximum Service Adjustment(e) * Service Achievement Scaling Factor(g)

	Planned Eligible Benefits		Planned Eligible Costs	Design Service Achievement	Maximum Service Adjustment	Service Adjustment Thresholds	Service Achievement Scaling Factors	Achievement Cost Adjustment
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
	100% Gas Utility System Benefits	50% Resource Benefits	Eligible Spending Budget + Regulatory Costs	=(a)+(b)	Maximum downward adjustment to earned incentive	Adjusted Achievement levels at which the Service Adjustments in (e) will be applied; adjustment is calculated in (h)	Factor to scale program achievement that fall within the ranges in (f)	Actual-cost-based adjustment factor applied to achievement. Result is if the difference between achievement and cost variances are greater than 5%, the Actual Achievement will be adjusted for use in
Non-Income Eligible Residential	\$0	\$0	-\$29,649	\$0	\$0	a. Adjusted Achievement < 65% b. 65% ≤ Adjusted Achievement < 95% c. 95% ≤ Adjusted Achievement	a.1 b.(95-Adjusted Achievement)/30 c.0	Performance Variance = "Actual Benefits" / "Design Achievement" - "Spending" / "Planned Eligible Cost" If the absolute value (Performance Variance) ≤ 0.05, Then Adjusted Achievement = Actual Achievement Else Adjusted Achievement = Actual Achievement * (1+ Performance Variance)
Income Eligible Residential	\$0	\$0	-\$17,569	\$0	\$0			
Commercial & Industrial	\$0	\$0	-\$13,591	\$0	\$0			

Table G-9
Rhode Island Energy
Revolving Loan Fund Projections

Large C&I Revolving Loan Fund

(1)	Total Loan Fund Deposits Through 2022	\$	-
(2)	Current Loan Fund Balance	\$	-
(3)	Projected Loans by Year End 2022	\$	-
(4)	Projected Repayments by Year End 2022	\$	-
(5)	Projected Year End Loan Fund Balance 2022	\$	-
(6)	2023 Fund Injection	\$	-
(7)	Projected Loan Fund Balance, January 2023	\$	-
(8)	Projected Repayments throughout 2023	\$	-
(9)	Estimated Loans in 2023	\$	-
(10)	Projected Year End Loan Fund Balance 2023	\$	-

Table E-1
Rhode Island Energy
Electric DSM Funding Sources in 2023 by Sector
\$(000)

	Income Eligible Residential	Projections by Sector Non-Income Eligible Residential	Commercial & Industrial	Total
(1) Projected Budget (from E-2):	\$16,488.8	\$34,151.9	\$52,020.9	\$102,661.7
Sources of Other Funding:				
(2) Projected DSM Commitments at Year-End 2022:	\$0.0	\$0.0	\$0.0	\$0.0
(3) Projected Year-End 2022 Fund Balance and Interest, Less Prior Years' Investigation Credit:	(\$61.2)	(\$763.5)	\$37,960.1	\$37,135.3
(4) Projected FCM Net Revenue from ISO-NE:	\$335.4	\$4,027.1	\$5,763.2	\$10,125.7
(5) Prior Years Investigation Credit:	\$61.2	\$691.2	\$1,107.1	\$1,859.5
(6) Total Other Funding:	\$335.4	\$3,954.7	\$44,830.4	\$49,120.5
(7) Customer Funding Required:	\$16,153.4	\$30,197.2	\$7,190.5	\$53,541.2
(8) Forecasted kWh Sales:	242,679,671	2,913,872,824	4,170,068,344	7,326,620,839
(9) Energy Efficiency Program charge per kWh, excluding uncollectible recovery:				\$0.00730
(10) Proposed SRP Opex Factor per kWh, excluding uncollectible recovery:				\$0.00000
(11) Total Proposed Energy Efficiency Charge per kWh, excluding uncollectible recovery:				\$0.00730
(12) Currently Effective Uncollectible Rate				1.30%
(13) Proposed Energy Efficiency Program Charge per kWh, including Uncollectible Recovery:				\$0.00739
(14) Currently Effective Energy Efficiency Program Charge per kWh				\$0.01222
(15) Proposed Adjustment to Reflect Fully Reconciling Funding Mechanism				(\$0.00483)

Notes

This fund balance includes actuals as of October 2022.
The added row titled "Prior Years Investigation Credit" does not influence final numbers in this table since it is a sub-set of the "Projected Year-End 2022 Fund Balance and Interest." It is being added just to aid in review per the request of PUC and Division counsel.

- (1) Projected Budget from E-2 includes OER and EERM costs allocated to each sector based on forecasted sales.
- (2) DSM Commitments are projects that are under construction with anticipated completion in 2023.

(3) Fund balance projections include projected revenue and spend through year end with Income Eligible sector set to \$0 through projected subsidization from other sectors, minus commitments which are illustrated separately on line (2). The fund balance includes \$5,000,000 representing 2021 regulatory funds that were initially allocated to the Rhode Island Infrastructure Bank (RIIB) for program year 2021 but were not transferred to RIIB. The fund balance also accounts for a transfer of \$5,000,000 to RIIB, approved in the 2022 Annual Plan, to be made in 2022. Note that these 2022 statutory funds have not yet been transferred to RIIB, however RIIB has requested the funds and the Company anticipates transferring these funds in accordance with RI Gen. Laws § 39-2-1.2(a) prior to December 31, 2022.

(4) The total projection of FCM revenue is allocated by kWh sales to each sector.

(5) The fund balance includes a \$1,859,499 credit from shareholder funds, with interest, to the fund balance which the Company made in January, May, and June, 2022 based on the Company's involvement in Docket 22-05-EE. The change in performance incentive (PI) was determined by recalculating each year's PI with the savings and spend from the applications in question, recast into the corrected year. This was done in January for Electric (2016-2020) and in May for Electric and Gas (2012-2020). The May calculation was aggregated and then split between Electric and Gas based on the actual Electric (75.62%) and Gas (24.38%) spending splits during the 2012 - 2020 period. For both calculations, monthly compounding interest was applied through 2022, based on the appropriate Electric and Gas interest rates. These credits were then booked in SAP at the time they were calculated (January, May, June), and reflected in the Electric and Gas Fund Balances accordingly.

Credit Description	CALENDAR YEAR										ALLOCATION	
	2012	2013	2014	2015	2016	2017	2018	2019	2020	TOTAL	ELECTRIC	GAS
PI Overage (Jan Calc)					(\$880)	(\$49,909)	\$68,627	\$43,583	\$62,705	\$124,135	\$124,135	
Interest On Overage (Jan Calc)					(\$98)	(\$4,382)	\$4,639	\$1,909	\$1,117	\$3,185	\$3,185	
Additional PI Overage (May Calc)	\$15,360	\$291,189		\$175,547	\$752,661	\$527,388	\$243,408	(\$43,583)	\$108,234	\$2,070,204	\$1,565,443	\$504,762
Interest On Overage (June Calc)	\$2,911	\$47,886		\$22,560	\$85,010	\$48,522	\$17,446	(\$2,063)	\$2,440	\$224,711	\$166,736	\$57,975
TOTAL										\$2,422,235	\$1,859,499	\$562,736

- (6) Line (2) + Line (3) + Line (4) + Line (5)
- (7) Line (1) - Line (6)
- (8) Per Company Forecast
- (9) Truncated to 5 decimal places
- (10) Proposed SRP Opex Factor is \$0.00000.
- (11) Line (9) + Line (10)
- (12) Uncollectible rate approved in Docket No 4770.
- (13) Line (11) ÷ (1-Line (12), truncated to 5 decimal places
- (14) Currently Effective EE Charge includes System Reliability Factor and uncollectible recovery. This is an 11 month rate that went into effect on February 1, 2022.
- (15) Line (13) - Line (14)

Table E-2
Rhode Island Energy
2023 Electric Energy Efficiency Program Budget (\$000)

	Program Planning & Administration	Marketing	Rebates and Other Customer Incentives	Sales, Tech Assist & Training	Evaluation & Market Research	Performance Incentive	Grand Total
Non-Income Eligible Residential							
Residential New Construction	\$124.6	\$23.9	\$835.5	\$525.2	\$98.4		\$1,607.5
ENERGY STAR® HVAC	\$259.9	\$278.3	\$3,918.5	\$831.2	\$242.6		\$5,530.5
EnergyWise	\$495.4	\$355.5	\$13,055.5	\$1,480.8	\$262.8		\$15,649.9
EnergyWise Multifamily	\$126.8	\$67.8	\$984.4	\$139.9	\$26.4		\$1,345.3
Residential Consumer Products	\$119.8	\$427.6	\$1,232.1	\$688.3	\$24.4		\$2,492.1
Home Energy Reports	\$49.0	\$13.2	\$0.0	\$2,062.4	\$22.6		\$2,147.2
Residential ConnectedSolutions	\$82.8	\$11.5	\$1,503.7	\$347.8	\$22.7		\$1,968.5
Energy Efficiency Education Programs	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0		\$0.0
Residential Pilots	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0		\$0.0
Community Based Initiatives - Residential	\$37.1	\$137.7	\$105.8	\$0.0	\$0.0		\$280.6
Comprehensive Marketing - Residential	\$1.2	\$309.3	\$0.0	\$0.0	\$0.0		\$310.5
Residential Workforce Development	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0		\$0.0
Residential Performance Incentive	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$622.5	\$622.5
Subtotal - Non-Income Eligible Residential	\$1,296.5	\$1,624.7	\$21,635.5	\$6,075.5	\$699.8	\$622.5	\$31,954.5
Income Eligible Residential							
Single Family - Income Eligible Services	\$453.2	\$132.1	\$9,496.5	\$1,890.9	\$81.2		\$12,053.9
Income Eligible Multifamily	\$165.2	\$14.3	\$3,502.1	\$531.9	\$38.5		\$4,252.0
Income Eligible Workforce Development	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0		\$0.0
Income Eligible Performance Incentive	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Subtotal - Income Eligible Residential	\$618.4	\$146.4	\$12,998.6	\$2,422.8	\$119.7	\$0.0	\$16,305.8
Commercial & Industrial							
Large Commercial New Construction	\$223.3	\$214.2	\$5,737.8	\$1,737.6	\$418.5		\$8,331.3
Large Commercial Retrofit	\$712.8	\$159.8	\$16,216.7	\$4,524.7	\$775.5		\$22,389.4
Small Business Direct Install	\$259.9	\$164.9	\$6,739.7	\$298.8	\$104.1		\$7,567.3
Commercial ConnectedSolutions	\$168.4	\$6.8	\$5,340.0	\$158.2	\$0.0		\$5,673.4
Commercial Pilots	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0		\$0.0
Community Based Initiatives - C&I	\$12.3	\$45.8	\$35.3	\$0.0	\$0.0		\$93.5
Finance Costs	\$0.0	\$0.0	\$2,000.0	\$0.0	\$0.0		\$2,000.0
Commercial Workforce Development	\$0.0	\$0.0	\$0.0	\$157.5	\$0.0		\$157.5
Commercial & Industrial Performance Incentive	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$2,663.8	\$2,663.8
Subtotal - Commercial & Industrial	\$1,376.7	\$591.5	\$36,069.4	\$6,876.7	\$1,298.2	\$2,663.8	\$48,876.3
Regulatory							
OER	\$965.4	\$0.0	\$0.0	\$0.0	\$0.0		\$965.4
EERMC	\$822.2	\$0.0	\$0.0	\$0.0	\$0.0		\$822.2
Rhode Island Infrastructure Bank	\$0.0	\$0.0	\$3,737.5	\$0.0	\$0.0		\$3,737.5
Subtotal - Regulatory	\$1,787.6	\$0.0	\$3,737.5	\$0.0	\$0.0	\$0.0	\$5,525.1
Grand Total	\$5,079.2	\$2,362.6	\$74,440.9	\$15,375.0	\$2,117.6	\$3,286.3	\$102,661.7

Notes:

- (1) 2023 Large Commercial Retrofit Commitments (\$000):
- (2) For more information on Finance Costs, please refer to Attachment 2, Section 9.
- (3) OER budget is equal to the SBC collections after zeroing out EERMC and OER budgets times 3% times 60%. EERMC budget was approved by the EERMC on November 22nd, 2022 for a total between gas and electric of \$1,096,299.14. 75% of that total has been allocated to the electric budget, in accordance with the proportions of the gas and electric budget.
- (4) Finance Costs are detailed in Table E-9. Finance Costs include an injection of \$2M into the Large C&I Revolving Loan Fund. Without this injection the Large C&I Revolving Loan Fund is projected to be negative by the end of 2023.
- (5) Demonstrations and Assessments budgets are included in specific program level budgets listed above. More information on Demonstration and Assessments descriptions, budgets, and which program level budget they are included in can be found in Attachment 8.

Table E-3
Rhode Island Energy
Derivation of the 2023 Eligible PIM and Implementation Budgets (\$000)

	Proposed 2023 Budget From E-2	Commitments	Regulatory Costs	Performance Incentive	Eligible Sector PIM Budget for Performance Incentive on E-8B	Implementation Expenses for Cost- Effectiveness on E-5
Non-Income Eligible Residential						
Residential New Construction	\$1,607.5					\$1,607.5
ENERGY STAR® HVAC	\$5,530.5					\$5,530.5
EnergyWise	\$15,649.9					\$15,649.9
EnergyWise Multifamily	\$1,345.3					\$1,345.3
Residential Consumer Products	\$2,492.1					\$2,492.1
Home Energy Reports	\$2,147.2					\$2,147.2
Residential ConnectedSolutions	\$1,968.5					\$1,968.5
Energy Efficiency Education Programs	\$0.0					\$0.0
Residential Pilots	\$0.0					\$0.0
Community Based Initiatives - Residential	\$280.6					\$280.6
Comprehensive Marketing - Residential	\$310.5					\$310.5
Residential Workforce Development	\$0.0					\$0.0
Residential Performance Incentive	\$622.5			\$622.5		\$0.0
Subtotal - Non-Income Eligible Residential	\$31,954.5	\$0.0	\$0.0	\$622.5	\$29,363.6	\$31,332.0
Income Eligible Residential						
Single Family - Income Eligible Services	\$12,053.9					\$12,053.9
Income Eligible Multifamily	\$4,252.0					\$4,252.0
Income Eligible Workforce Development	\$0.0					\$0.0
Income Eligible Performance Incentive	\$0.0			\$0.0		\$0.0
Subtotal - Income Eligible Residential	\$16,305.8	\$0.0	\$0.0	\$0.0	\$16,305.8	\$16,305.8
Commercial & Industrial						
Large Commercial New Construction	\$8,331.3	\$0.0				\$8,331.3
Large Commercial Retrofit	\$22,389.4	\$0.0				\$22,389.4
Small Business Direct Install	\$7,567.3	\$0.0				\$7,567.3
Commercial ConnectedSolutions	\$5,673.4					\$5,673.4
Commercial Pilots	\$0.0					\$0.0
Community Based Initiatives - C&I	\$93.5					\$93.5
Finance Costs	\$2,000.0					\$2,000.0
Commercial Workforce Development	\$157.5					\$157.5
Commercial & Industrial Performance Incentive	\$2,663.8			\$2,663.8		\$0.0
Subtotal - Commercial & Industrial	\$48,876.3	\$0.0	\$0.0	\$2,663.8	\$40,486.6	\$46,212.4
Regulatory						
OER	\$965.4		\$965.4			\$965.4
EERMC	\$822.2		\$822.2			\$822.2
Rhode Island Infrastructure Bank	\$3,737.5		\$3,737.5			\$3,737.5
Subtotal - Regulatory	\$5,525.1	\$0.0	\$5,525.1	\$0.0	\$0.0	\$5,525.1
Grand Total	\$102,661.7	\$0.0	\$5,525.1	\$3,286.3	\$86,156.0	\$99,375.4

Notes:

- (1) Eligible Sector Spending Budget = Total Budget from E-2 minus commitments, regulatory costs, pilots, assessments, Residential ConnectedSolutions, Commercial ConnectedSolutions, Performance Incentive
- (2) Eligible Sector Spending Budget does not include assessments, see Attachment 8 for assessments budgets.
- (3) Implementation Expenses = Total Budget from E-2 minus commitments and Performance Incentive.

Table E-4
Rhode Island Energy
Proposed 2023 Budget Compared to Approved 2022 Budget (\$000)

	Proposed Implementation Budget 2023	Approved Implementation Budget 2022	Difference
Non-Income Eligible Residential			
Residential New Construction	\$1,607.5	\$1,617.0	-\$9.4
ENERGY STAR® HVAC	\$5,530.5	\$4,684.4	\$846.2
EnergyWise	\$15,649.9	\$15,557.0	\$93.0
EnergyWise Multifamily	\$1,345.3	\$3,238.3	-\$1,893.0
Residential Consumer Products	\$2,492.1	\$2,796.0	-\$303.9
Home Energy Reports	\$2,147.2	\$2,639.1	-\$492.0
Residential ConnectedSolutions	\$1,968.5	\$1,822.6	\$145.9
Community Based Initiatives - Residential	\$280.6	\$255.1	\$25.5
Comprehensive Marketing - Residential	\$310.5	\$247.9	\$62.5
Subtotal - Non-Income Eligible Residential	\$31,332.0	\$32,857.4	-\$1,525.3
Income Eligible Residential			
Single Family - Income Eligible Services	\$12,053.9	\$13,275.3	-\$1,221.5
Income Eligible Multifamily	\$4,252.0	\$3,538.9	\$713.0
Subtotal - Income Eligible Residential	\$16,305.8	\$16,814.3	-\$508.4
Commercial & Industrial			
Large Commercial New Construction	\$8,331.3	\$9,034.1	-\$702.8
Large Commercial Retrofit	\$22,389.4	\$25,010.5	-\$2,621.1
Small Business Direct Install	\$7,567.3	\$8,883.3	-\$1,316.0
Commercial ConnectedSolutions	\$5,673.4	\$4,393.6	\$1,279.8
Community Based Initiatives - C&I	\$93.5	\$85.0	\$8.5
Commercial Pilots	\$0.0	\$0.0	\$0.0
Finance Costs	\$2,000.0	\$2,000.0	\$0.0
Commercial Workforce Development	\$157.5	\$157.5	\$0.0
Subtotal Commercial & Industrial	\$46,212.4	\$49,564.1	-\$3,351.6
Regulatory			
EERMC	\$822.2	\$766.2	\$56.0
OER	\$965.4	\$1,541.7	-\$576.3
Rhode Island Infrastructure Bank	\$3,737.5	\$3,737.5	\$0.0
Subtotal Regulatory	\$5,525.1	\$6,045.4	-\$520.3
TOTAL IMPLEMENTATION BUDGET	\$99,375.4	\$105,281.1	-\$5,905.7
OTHER EXPENSE ITEMS			
Commitments	\$0.0	\$0.0	\$0.0
Company Incentive	\$3,286.3	\$3,390.2	-\$103.8
Subtotal - Other Expense Items	\$3,286.3	\$3,390.2	-\$103.8
TOTAL BUDGET	\$102,661.7	\$108,671.3	-\$6,009.6

Notes:

- (1) Program Implementation Budget excludes Commitments, Company Incentive; derived on Table E-3
- (2) Total Budget includes Implementation, Commitments; illustrated on Table E-3

**Table E-5 - Primary
Rhode Island Energy
Calculation of 2023 Program Year Cost-Effectiveness
All Dollar Values in (\$000)**

	RI Test Benefit/ Cost ¹	Total Benefit	Program Implementation Expenses ²	Customer Contribution	Performance Incentive	¢/Lifetime kWh
Non-Income Eligible Residential						
Residential New Construction	1.79	\$4,003.5	\$1,607.5	\$634.6		¢17.1
ENERGY STAR® HVAC	2.72	\$21,708.5	\$5,530.5	\$2,464.5		¢11.3
EnergyWise	1.09	\$20,158.4	\$15,649.9	\$2,790.6		¢108.9
EnergyWise Multifamily	2.30	\$3,295.9	\$1,345.3	\$89.9		¢15.1
Home Energy Reports	2.73	\$5,862.7	\$2,147.2	\$0.0		¢8.8
Residential Consumer Products	2.29	\$7,261.1	\$2,492.1	\$683.3		¢10.0
Residential ConnectedSolutions	1.60	\$3,148.1	\$1,968.5	\$0.0		N/A
Energy Efficiency Education Programs			\$0.0			
Residential Pilots			\$0.0			
Community Based Initiatives - Residential			\$280.6			
Comprehensive Marketing - Residential			\$310.5			
Residential Workforce Development			\$0.0			
Non-Income Eligible Residential SUBTOTAL	1.69	\$65,438.1	\$31,332.0	\$6,662.9	\$622.5	¢22.8
Income Eligible Residential						
Single Family - Income Eligible Services	1.78	\$21,466.4	\$12,053.9	\$0.0		¢54.3
Income Eligible Multifamily	1.19	\$5,039.4	\$4,252.0	\$0.0		¢25.4
Income Eligible Workforce Development			\$0.0			
Income Eligible Residential SUBTOTAL	1.63	\$26,505.9	\$16,305.8	\$0.0	\$0.0	¢41.9
Commercial & Industrial						
Large Commercial New Construction	3.49	\$31,314.7	\$8,331.3	\$648.5		¢5.7
Large Commercial Retrofit	1.93	\$63,222.6	\$22,389.4	\$10,315.5		¢13.4
Small Business Direct Install	1.02	\$9,309.2	\$7,567.3	\$1,596.0		¢15.9
Commercial ConnectedSolutions	2.25	\$12,784.5	\$5,673.4	\$0.0		N/A
Commercial Pilots			\$0.0			
Community Based Initiatives - C&I			\$93.5			
Finance Costs			\$2,000.0			
Commercial Workforce Development			\$157.5			
C&I SUBTOTAL	1.90	\$116,631.0	\$46,212.4	\$12,560.0	\$2,663.8	¢12.8
Regulatory						
OER			\$965.4			
EERMC			\$822.2			
Rhode Island Infrastructure Bank			\$3,737.5			
Regulatory SUBTOTAL			\$5,525.1			
TOTAL	1.71	\$208,575.0	\$99,375	\$19,222.8	\$3,286.3	¢17.8

Notes:

(1) RI Test B/C Test = Total Benefits from Table E-6 excluding Economic Benefits / Program Implementation Expenses from Table E-3 and Customer Contribution
Also includes effects of free-ridership and spillover.

(2) For Implementation Expenses derivation, see Table E-3.

Table E-5 - Economic Benefits
Rhode Island Energy
Calculation of 2023 Economic Benefits and Job Years
All Dollar Values in (\$000)

	Program Implementation Expenses¹	RI Economic Multiplier (GDP/\$ Program Impl.)	Economic Benefits	RI Job Years Multiplier (Job Years/\$M Program Impl.)	Job Years
Non-Income Eligible Residential					
Residential New Construction	\$1,607.5	\$1.56	\$2,507.8	14.8	24
ENERGY STAR® HVAC	\$5,530.5	\$1.58	\$8,738.2	12.2	67
EnergyWise	\$15,649.9	\$1.05	\$16,432.4	12.3	192
EnergyWise Multifamily	\$1,345.3	\$1.45	\$1,950.6	14.8	20
Home Energy Reports	\$2,147.2	\$1.65	\$3,542.9	13.6	29
Residential Consumer Products	\$2,492.1	\$1.11	\$2,766.2	8.5	21
Residential ConnectedSolutions	\$1,968.5	\$0.83	\$1,633.8	6.9	14
Energy Efficiency Education Programs	\$0.0		\$0.0		-
Residential Pilots	\$0.0		\$0.0		-
Community Based Initiatives - Residential	\$280.6		\$0.0		-
Comprehensive Marketing - Residential	\$310.5		\$0.0		-
Residential Workforce Development	\$0.0		\$0.0		-
Non-Income Eligible Residential SUBTOTAL	\$31,332.0		\$37,571.9		368
Income Eligible Residential					
Single Family - Income Eligible Services	\$12,053.9	\$0.96	\$11,571.7	10.9	131
Income Eligible Multifamily	\$4,252.0	\$1.30	\$5,527.6	13.4	57
Income Eligible Workforce Development	\$0.0		\$0.0		-
Income Eligible Residential SUBTOTAL	\$16,305.8		\$17,099.3		188
Commercial & Industrial					
Large Commercial New Construction	\$8,331.3	\$2.74	\$22,827.8	19.0	158
Large Commercial Retrofit	\$22,389.4	\$5.28	\$118,216.1	51.4	1,151
Small Business Direct Install	\$7,567.3	\$1.53	\$11,578.0	12.3	93
Commercial ConnectedSolutions	\$5,673.4	\$2.19	\$12,424.8	17.5	99
Commercial Pilots	\$0.0		\$0.0		-
Community Based Initiatives - C&I	\$93.5		\$0.0		-
Finance Costs	\$2,000.0		\$0.0		-
Commercial Workforce Development	\$157.5		\$0.0		-
C&I SUBTOTAL	\$46,212.4		\$165,046.7		1,501
Regulatory					
OER	\$965.4		\$0.0		-
EERMC	\$822.2		\$0.0		-
Rhode Island Infrastructure Bank	\$3,737.5		\$0.0		-
Regulatory SUBTOTAL	\$5,525.1		\$0.0		-
TOTAL	\$99,375.4		\$219,717.9		2,057

Notes:

(1) For Implementation Expenses derivation, see Table E-3.

(2) RI Economic and Job Years Multipliers from "Economic Multipliers Update" filed by National Grid in Docket 5189.

Table E-5A
Rhode Island Energy
Calculation of 2023 Program Year Cost-Effectiveness with TRC Test
All Dollar Values in (\$000)

	TRC Benefit/ Cost ¹	Total Benefit	Program Implementation Expenses ²	Customer Contribution	Performance Incentive	¢/Lifetime kWh
Non-Income Eligible Residential						
Residential New Construction	1.45	\$3,248.6	\$1,607.5	\$634.6		17.1
ENERGY STAR® HVAC	2.12	\$16,958.2	\$5,530.5	\$2,464.5		11.3
EnergyWise	0.84	\$15,488.8	\$15,649.9	\$2,790.6		108.9
EnergyWise Multifamily	1.97	\$2,821.4	\$1,345.3	\$89.9		15.1
Home Energy Reports	1.94	\$4,159.5	\$2,147.2	\$0.0		8.8
Residential Consumer Products	1.74	\$5,512.4	\$2,492.1	\$683.3		10.0
Residential ConnectedSolutions	1.60	\$3,145.0	\$1,968.5	\$0.0		N/A
Energy Efficiency Education Programs			\$0.0			0.0
Residential Pilots			\$0.0			0.0
Community Based Initiatives - Residential			\$280.6			0.0
Comprehensive Marketing - Residential			\$310.5			0.0
Non-Income Eligible Residential SUBTOTAL	1.33	\$51,333.8	\$31,332.0	\$6,662.9	\$622.5	22.8
Income Eligible Residential						
Single Family - Income Eligible Services	1.54	\$18,557.5	\$12,053.9	\$0.0		54.3
Income Eligible Multifamily	0.98	\$4,158.8	\$4,252.0	\$0.0		25.4
Income Eligible Residential SUBTOTAL	1.39	\$22,716.3	\$16,305.8	\$0.0	\$0.0	41.9
Commercial & Industrial						
Large Commercial New Construction	2.78	\$24,948.0	\$8,331.3	\$648.5		5.7
Large Commercial Retrofit	1.54	\$50,442.1	\$22,389.4	\$10,315.5		13.4
Small Business Direct Install	0.71	\$6,537.3	\$7,567.3	\$1,596.0		15.9
Commercial ConnectedSolutions	2.25	\$12,784.5	\$5,673.4			N/A
Commercial Pilots			\$0.0			
Community Based Initiatives - C&I			\$93.5			
Finance Costs			\$2,000.0			
Commercial Workforce Development			\$157.5			
C&I SUBTOTAL	1.54	\$94,711.9	\$46,212.4	\$12,560.0	\$2,663.8	12.8
Regulatory						
OER			\$965.4			
EERMC			\$822.2			
Rhode Island Infrastructure Bank			\$3,737.5			
Regulatory SUBTOTAL			\$5,525.1			
TOTAL	1.38	\$168,762.0	\$99,375.4	\$19,222.8	\$3,286.3	17.8

Notes:

- (1) TRC B/C Test omits societal benefits that are monetized in the RI Test, including non-embedded emissions (CO2 and NOx). Also includes effects of free-ridership and spillover.
- (2) For Implementation Expenses derivation, see Table E-3.

Table E-6
Rhode Island Energy
Summary of 2023 Benefits by Program (Energy Efficiency Measures)

	Benefits (000's)																		
	Total	Total (Economic Excluded)	Capacity					Energy				Non Electric				Societal			
			Summer Generation	Capacity DRIPE	Trans	Dist	Reliability	Winter		Summer		Electric Energy DRIPE	Natural Gas	Oil	Other Resource	Non Resource	Carbon	NOx	Economic
								Peak	Off Peak	Peak	Off Peak								
Non-Income Eligible Residential																			
Residential New Construction	\$6,511	\$4,004	\$13	\$13	\$28	\$31	\$0	\$391	\$514	\$88	\$71	\$271	\$0	\$353	\$1,396	\$80	\$728	\$27	\$2,508
ENERGY STAR® HVAC	\$30,447	\$21,708	\$582	\$514	\$1,221	\$1,387	\$6	\$2,198	\$2,740	\$341	\$287	\$1,672	-\$3	\$5,476	\$17	\$521	\$4,441	\$309	\$8,738
EnergyWise	\$36,591	\$20,158	\$166	\$227	\$365	\$414	\$3	\$383	\$397	\$217	\$188	\$396	\$0	\$10,400	\$1,688	\$646	\$4,145	\$525	\$16,432
EnergyWise Multifamily	\$5,247	\$3,296	\$59	\$66	\$126	\$144	\$1	\$180	\$211	\$152	\$133	\$203	\$0	\$247	\$52	\$1,248	\$457	\$18	\$1,951
Home Energy Reports	\$9,406	\$5,863	\$243	\$984	\$363	\$413	\$62	\$612	\$526	\$237	\$183	\$538	\$0	\$0	\$0	\$1,685	\$18	\$3,543	
Residential Consumer Products	\$10,027	\$7,261	\$269	\$698	\$664	\$753	\$8	\$597	\$625	\$384	\$366	\$982	\$0	\$70	\$97	\$1	\$1,723	\$26	\$2,766
Non-Income Eligible Residential SUBTOTAL	\$98,228	\$62,290	\$1,332	\$2,501	\$2,767	\$3,141	\$80	\$4,361	\$5,012	\$1,418	\$1,228	\$4,062	-\$3	\$16,545	\$3,250	\$2,495	\$13,177	\$924	\$35,938
Income Eligible Residential																			
Single Family - Income Eligible Services	\$33,038	\$21,466	\$183	\$213	\$394	\$447	\$3	\$519	\$557	\$267	\$274	\$470	\$24	\$5,341	\$410	\$9,455	\$2,629	\$280	\$11,572
Income Eligible Multifamily	\$10,567	\$5,039	\$13	\$26	\$30	\$34	\$0	\$434	\$417	\$127	\$110	\$222	-\$40	\$924	\$45	\$1,716	\$831	\$50	\$5,528
Income Eligible Residential SUBTOTAL	\$43,605	\$26,506	\$196	\$239	\$424	\$481	\$3	\$953	\$974	\$394	\$384	\$792	-\$15	\$6,265	\$456	\$11,171	\$3,460	\$329	\$17,099
Commercial & Industrial																			
Large Commercial New Construction	\$54,143	\$31,315	\$990	\$1,048	\$2,109	\$2,394	\$13	\$4,259	\$2,725	\$2,633	\$1,630	\$3,702	-\$255	\$0	\$6	\$3,693	\$6,292	\$77	\$22,828
Large Commercial Retrofit	\$181,439	\$63,223	\$1,837	\$4,849	\$4,544	\$5,155	\$59	\$4,897	\$4,090	\$3,601	\$2,561	\$7,598	-\$284	-\$29	\$0	\$11,554	\$12,644	\$149	\$118,216
Small Business Direct Install	\$20,887	\$9,309	\$186	\$566	\$476	\$540	\$7	\$1,249	\$713	\$975	\$493	\$1,847	-\$113	-\$571	\$0	\$165	\$2,775	\$0	\$11,578
C&I SUBTOTAL	\$256,468	\$103,846	\$3,013	\$6,462	\$7,129	\$8,089	\$78	\$10,406	\$7,528	\$7,209	\$4,685	\$13,147	-\$653	-\$600	\$6	\$15,411	\$21,711	\$226	\$152,622
TOTAL	\$398,302	\$192,642	\$4,542	\$9,202	\$10,319	\$11,711	\$161	\$15,719	\$13,514	\$9,021	\$6,297	\$18,000	-\$671	\$22,210	\$3,711	\$29,078	\$38,348	\$1,480	\$205,659

Table E-6B
Rhode Island Energy
Summary of 2023 Demand Response Benefits and Savings

	Benefits (000's)															Load Reduction (MW)	MWh Saved		
	Total	Total (Economic Excluded)	Capacity					Energy					Non Electric	Societal		Summer	Annual	Lifetime	
			Summer Generation	Capacity DRIPE	Trans	Dist	Reliability	Winter		Summer		Energy DRIPE	Non Resource	Carbon	Economic				
								Peak	Off Peak	Peak	Off Peak								
Non-Income Eligible Residential																			
Residential ConnectedSolutions	\$4,782	\$3,148	\$232	\$939	\$854	\$971	\$145	\$0	\$0	\$2	\$1	\$1	\$0	\$3	\$1,634	7.9	0.1	0.1	
Commercial & Industrial																			
Commercial ConnectedSolutions	\$25,209	\$12,785	\$749	\$3,034	\$3,904	\$4,436	\$662	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$12,425	36.0	0.0	0.0	
TOTAL	\$29,991	\$15,933	\$980	\$3,973	\$4,759	\$5,406	\$807	\$0	\$0	\$2	\$1	\$1	\$0	\$3	\$14,059	43.9	0.1	0.1	

Table E-6A
Rhode Island Energy
Summary of 2023 Impacts by Program (Energy Efficiency Measures)

	Load Reduction in kW		Electric Energy Savings						Gas Savings			Oil Saved			Propane Saved			Total Savings (Electric, Gas, Oil, Propane)		
			MWh		MMBtu		short tons CO ₂	MMBtu		short tons CO ₂	MMBtu		short tons CO ₂	MMBtu		short tons CO ₂	MMBtu		short tons CO ₂	
	Summer	Winter	Annual	Lifetime	Annual	Lifetime	Annual ²	Annual	Lifetime	Annual ²	Annual	Lifetime	Annual ²	Annual	Lifetime	Annual ²	Annual	Lifetime	Annual ²	
Non-Income Eligible Residential																				
Residential New Construction	16	39	689	13,144	2,352	44,848	335	-	-	-	533	13,331	47	1,284	32,102	115	4,170	90,281	497	
ENERGY STAR® HVAC	640	838	4,175	71,055	14,244	242,438	1,799	(33)	(424)	(2)	11,799	211,351	959	29	429	2	26,039	454,194	2,758	
EnergyWise	466	582	3,147	16,940	10,739	57,800	1,382	-	-	-	21,158	400,307	2,055	1,799	35,499	126	33,696	493,605	3,563	
EnergyWise Multifamily	108	85	680	9,493	2,319	32,389	347	-	-	-	423	9,376	49	16	332	2	2,758	42,097	397	
Home Energy Reports	3,348	5,174	24,350	24,350	83,081	83,081	9,597	-	-	-	-	-	-	-	-	-	83,081	83,081	9,597	
Residential Consumer Products	885	481	4,473	31,684	15,261	108,105	2,784	-	-	-	159	2,711	13	57	808	4	15,478	111,624	2,801	
Non-Income Eligible Residential SUBTOTAL	5,462	7,198	37,513	166,665	127,996	568,661	16,244	(33)	(424)	(2)	34,073	637,476	3,123	3,186	69,170	249	165,222	1,274,882	19,613	
Income Eligible Residential																				
Single Family - Income Eligible Services	367	415	2,433	22,187	8,303	75,702	959	304	3,648	18	11,651	206,091	938	756	6,849	53	21,014	292,290	1,967	
Income Eligible Multifamily	89	132	1,245	16,728	4,249	57,077	491	(291)	(5,813)	(17)	2,049	37,509	165	10	250	1	6,018	89,023	639	
Income Eligible Residential SUBTOTAL	456	547	3,679	38,915	12,552	132,779	1,450	13	(2,165)	1	13,700	243,599	1,103	766	7,099	53	27,032	381,313	2,607	
Commercial & Industrial																				
Large Commercial New Construction	1,306	1,100	10,481	157,598	35,762	537,725	5,778	(2,097)	(29,621)	(162)	-	-	-	-	-	-	33,665	508,104	5,616	
Large Commercial Retrofit	6,143	5,659	35,260	244,962	120,308	835,809	21,279	(10,149)	(34,210)	(863)	(220)	(1,321)	(27)	-	-	-	109,939	800,278	20,388	
Small Business Direct Install	708	646	9,260	57,778	31,594	197,138	4,178	(2,192)	(13,320)	(145)	(4,282)	(26,025)	(391)	-	-	-	25,120	157,794	3,642	
C&I SUBTOTAL	8,157	7,405	55,001	460,338	187,663	1,570,672	31,235	(14,437)	(77,151)	(1,171)	(4,502)	(27,346)	(418)	-	-	-	168,724	1,466,175	29,646	
TOTAL	14,076	15,151	96,193	665,918	328,211	2,272,112	48,929	(14,457)	(79,739)	(1,172)	43,271	853,229	3,808	3,952	76,269	302	360,977	3,122,371	51,866	

Notes:
(1) Lifetime savings are equal to annual savings multiplied by the expected life of measures expected to be installed in each program.
(2) Annual short tons CO₂ savings is based on gross annual energy savings in Year 1. The AESC 2021 study was used to inform the electric emissions factor for 2023, taking the average of summer/winter on/off-peak.

Table E-7
Rhode Island Energy
Comparison of 2023 and 2022 Goals and Tracking
17,990

	Proposed 2023 Goal		Proposed 2023 Tracking				Approved 2022				Difference			
	Lifetime Electric Energy Savings (MWh)	Active Demand Response (kW)	Annual Electric Energy Savings (MWh)	Annual Passive Summer Demand Savings (kW)	Total Net Lifetime Energy Savings (MMBtu)	Planned Unique Participants	Lifetime Electric Energy Savings (MWh)	Annual Electric Energy Savings (MWh)	Annual Passive Summer Demand Savings (kW)	Active Demand Response (kW)	Lifetime Electric Energy Savings (MWh)	Annual Electric Energy Savings (MWh)	Annual Passive Summer Demand Savings (kW)	Active Demand Response (kW)
Non-Income Eligible Residential														
Residential New Construction	13,144		689	16	90,281	410	14,947	867	74		-1,802	-177	-58	
ENERGY STAR® HVAC	71,055		4,175	640	454,194	6,371	77,717	4,620	240		-6,662	-445	400	
EnergyWise	16,940		3,147	466	493,605	9,465	13,472	2,789	424		3,468	359	42	
EnergyWise Multifamily	9,493		680	108	42,097	1,744	20,783	1,424	143		-11,290	-744	-35	
Home Energy Reports	24,350		24,350	3,348	83,081	276,390	26,852	26,852	3,692		-2,503	-2,503	-344	
ENERGY STAR® Lighting	0		0	0	0	0	0	0	0		0	0	0	
Residential Consumer Products	31,684		4,473	885	111,624	26,274	47,554	6,885	1,118		-15,871	-2,412	-233	
Residential ConnectedSolutions		7,878								7,365				513
Non-Income Eligible Residential SUBTOTAL	166,665	7,878	37,513	5,462	1,274,882	327,554	201,325	43,435	5,691	7,365	-34,660	-5,922	-229	513
Income Eligible Residential														
Single Family - Income Eligible Services	22,187		2,433	367	292,290	3,111	38,506	3,314	480		-16,319	-880	-112	
Income Eligible Multifamily	16,728		1,245	89	89,023	2,786	24,309	1,538	49		-7,581	-292	40	
Income Eligible Residential SUBTOTAL	38,915	0	3,679	456	381,313	5,897	62,816	4,851	529	0	-23,900	-1,173	-73	0
Commercial & Industrial														
Large Commercial New Construction	157,598		10,481	1,306	508,104	45	192,343	12,589	1,745		-34,745	-2,108	-439	
Large Commercial Retrofit	244,962		35,260	6,143	800,278	2,142	312,931	41,132	8,490		-67,970	-5,872	-2,346	
Small Business Direct Install	57,778		9,260	708	157,794	339	64,394	9,976	904		-6,616	-716	-196	
Commercial ConnectedSolutions		36,000				216				32,400				3,600
C&I SUBTOTAL	460,338	36,000	55,001	8,157	1,466,175	2,741	569,668	63,696	11,139	32,400	-109,330	-8,695	-2,981	3,600
TOTAL	665,918	43,878	96,193	14,076	3,122,371	336,192	833,808	111,983	17,359	39,765	-167,890	-15,790	-3,283	4,113

Notes:

- (1) Planned 2023 participation takes into account net-to-gross and estimates unique participation by taking into account 2021 unique customer accounts to savings ratios. Therefore the number of planned measures may be more than the estimated participants shown. For measure counts please view the widget tables in Attachments 1 and 2. Table E-7 no longer includes a comparison to the previous year's participation. Due to the way unique participation is calculated it is not possible to compare year-over-year results.
- (2) There are additional Low Income participants in Residential New Construction.
- (3) A customer can participate in more than one program, for example, Residential Consumer Products and Home Energy Reports, therefore the population reached can be more than 100%.

Table E-8A
Rhode Island Energy
2023 Electric PIM Benefits, Allocations, and Categorization (\$000)

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
	Capacity		Energy			Utility NEIs		Non Electric				Societal						
	Summer Generation	Capacity DRIPE	Transmission	Distribution	Reliability	Winter Peak Energy	Winter Off Peak Energy	Summer Peak Energy	Summer Off Peak Energy	Electric Energy DRIPE	Utility NEIs	Natural Gas and DRIPE	Oil and Oil DRIPE	Propane and Water	Non Resource	Carbon	NOx	Economic
Non-Income Eligible Residential																		
Residential New Construction	\$13	\$13	\$28	\$31	\$0	\$391	\$514	\$88	\$71	\$271	\$0	\$0	\$353	\$1,396	\$80	\$728	\$27	\$2,508
ENERGY STAR® HVAC	\$582	\$514	\$1,221	\$1,387	\$6	\$2,198	\$2,740	\$341	\$287	\$1,672	\$0	-\$3	\$5,476	\$17	\$521	\$4,441	\$309	\$8,738
EnergyWise	\$166	\$227	\$365	\$414	\$3	\$383	\$397	\$217	\$188	\$396	\$0	\$0	\$10,400	\$1,688	\$646	\$4,145	\$525	\$16,432
EnergyWise Multifamily	\$59	\$66	\$126	\$144	\$1	\$180	\$211	\$152	\$133	\$203	\$0	\$0	\$247	\$52	\$1,248	\$457	\$18	\$1,951
Home Energy Reports	\$243	\$984	\$363	\$413	\$62	\$612	\$526	\$237	\$183	\$538	\$0	\$0	\$0	\$0	\$0	\$1,685	\$18	\$3,543
Residential Consumer Products	\$269	\$698	\$664	\$753	\$8	\$597	\$625	\$384	\$366	\$982	\$0	\$0	\$70	\$97	\$1	\$1,723	\$26	\$2,766
Non-Income Eligible Residential SUBTOTAL	\$1,332	\$2,501	\$2,767	\$3,141	\$80	\$4,361	\$5,012	\$1,418	\$1,228	\$4,062	\$0	-\$3	\$16,545	\$3,250	\$2,495	\$13,177	\$924	\$35,938
Income Eligible Residential																		
Single Family - Income Eligible Services	\$183	\$213	\$394	\$447	\$3	\$519	\$557	\$267	\$274	\$470	\$239	\$24	\$5,341	\$410	\$9,216	\$2,629	\$280	\$11,572
Income Eligible Multifamily	\$13	\$26	\$30	\$34	\$0	\$454	\$417	\$127	\$110	\$322	\$5	-\$40	\$924	\$45	\$1,711	\$831	\$50	\$5,528
Income Eligible Residential SUBTOTAL	\$196	\$239	\$424	\$481	\$3	\$953	\$974	\$394	\$384	\$792	\$244	-\$15	\$6,265	\$456	\$10,928	\$3,460	\$329	\$17,099
Commercial & Industrial																		
Large Commercial New Construction	\$990	\$1,048	\$2,109	\$2,394	\$13	\$4,259	\$2,725	\$2,633	\$1,630	\$3,702	\$0	-\$255	\$0	\$6	\$3,693	\$6,292	\$77	\$22,828
Large Commercial Retrofit	\$1,837	\$4,849	\$4,544	\$5,155	\$59	\$4,897	\$4,090	\$3,601	\$2,561	\$7,598	\$0	-\$284	-\$29	\$0	\$11,554	\$12,644	\$149	\$18,216
Small Business Direct Install	\$186	\$566	\$476	\$540	\$7	\$1,249	\$713	\$975	\$493	\$1,847	\$0	-\$113	-\$571	\$0	\$165	\$2,775	\$0	\$11,578
C&I SUBTOTAL	\$3,013	\$6,462	\$7,129	\$8,089	\$78	\$10,406	\$7,528	\$7,209	\$4,685	\$13,147	\$0	-\$653	-\$600	\$6	\$15,411	\$21,711	\$226	\$152,622
Included in PIM? (Y/N)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	N	N	N
Percent Application in PIM	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	50%	50%	50%	0%	0%	0%	0%
Category	Electric Utility System Benefits	Electric Utility System Benefits	Electric Utility System Benefits	Electric Utility System Benefits	Electric Utility System Benefits	Electric Utility System Benefits	Electric Utility System Benefits	Electric Utility System Benefits	Electric Utility System Benefits	Electric Utility System Benefits	Electric Utility System Benefits	Resource Benefits	Resource Benefits	Resource Benefits	NA	NA	NA	NA

Notes
From 2023 Benefit-Cost Model, Tab ESA-PIM Benefits

Table E-8B
Rhode Island Energy
2023 Electric PIM Costs

	(1)	(2)	(3)
	Costs (\$)		
	Eligible Spending Budget from Table E-3	Regulatory Costs	Total Costs for PIM Calculations
Non-Income Eligible Residential SUBTOTAL	\$29,364	\$274	\$29,638
Income Eligible Residential SUBTOTAL	\$16,306	\$274	\$16,580
C&I SUBTOTAL	\$40,487	\$274	\$40,761
Included in PIM? (Y/N)	Y	Y	Y

Notes

Source is 2023 Benefit-Cost Model, Tab E8B-PIM Costs. Regulatory costs allocated equally to each sector. OER and RIIB costs have been omitted from Regulatory Costs.

Table E-8C
Rhode Island Energy
2023 Electric PIM and SQA

Sector PI = min(Payout Cap(j), [Actual Net Benefits* Design Payout Rate(g) * Payout Rate Adjustment(i)])

Sector	Planned Eligible Benefits		Planned Eligible Costs	Planned Eligible Net Benefits (4)	Design Performance Achievement	Design Performance Payout	Design Payout Rate	Design Payout Rate Thresholds	Payout Rate Adjustments	Payout Cap	Service Quality Metric
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)
	100% Electric Utility System Benefits	50% Resource Benefits	Eligible Spending Budget + Regulatory Costs	=(a)+(b)-(c)	Net benefits at which design incentive pool is achieved	Set by PUC	=(f)/(e)	Achievement levels at which the Payout Rate Adjustments in (i) will be applied—Set by PUC	Factor to adjust Design Payout Rate for if final program achievement fall within the ranges in (h)—Set by PUC	=1.25*(f)	Yes if (d) ≤ 0; No if (d) > 0
										Cap on sector payout regardless of achievement in sector	See Service Quality Table
Non-Income Eligible Residential	\$25,902,121	\$9,895,703	\$29,637,662	\$6,160,161	\$6,160,161	\$622,499	10.1%	a. Achievement < 25% b. 25% ≤ Achievement < 50% c. 50% ≤ Achievement < 75% d. 75% ≤ Achievement * Spending > Planned Eligible Costs	a. 0.0 b. Achievement/100 + 0.1 c. Achievement/100 + 0.25 d. 1.0 * See Boundary Rules	\$778,124	No
Income Eligible Residential	\$5,083,335	\$3,352,694	\$16,579,911	-\$8,143,882	\$2,000,000	\$500,000	25.00%			\$625,000	Yes
Commercial & Industrial	\$67,744,918	-\$623,433	\$40,760,683	\$26,360,802	\$26,360,802	\$2,663,821	10.1%			\$3,329,776	No

Sector SQA = Maximum Service Adjustment(e) * Service Achievement Scaling Factor(g)

	Planned Eligible Benefits		Planned Eligible Costs	Design Service Achievement	Maximum Service Adjustment	Service Adjustment Thresholds	Service Achievement Scaling Factors	Achievement Cost Adjustment
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
	100% Electric Utility System Benefits	50% Resource Benefits	Eligible Spending Budget + Regulatory Costs	=(a)+(b)	Maximum downward adjustment to earned incentive—Set by PUC	Adjusted Achievement levels at which the Service Adjustments in (e) will be applied; adjustment is calculated in (h)	Factor to scale program achievement that fall within the ranges in (f)	Actual-cost-based adjustment factor applied to achievement. Result is if the difference between achievement and cost variances are greater than 5%, the Actual Achievement will be adjusted for use in
Non-Income Eligible Residential	\$25,902,121	\$9,895,703	\$29,637,662	\$35,797,824	\$0	a. Adjusted Achievement < 65% b. 65% ≤ Adjusted Achievement < 95% c. 95% ≤ Adjusted Achievement	a. 1 b. (95-Adjusted Achievement)/30 c. 0	Performance Variance = "Actual Benefits" / "Design Achievement" - "Spending" / "Planned Eligible Cost" If the absolute value (Performance Variance) ≤ 0.05, Then Adjusted Achievement = Actual Achievement Else Adjusted Achievement = Actual Achievement * (1+ Performance Variance)
Income Eligible Residential	\$5,083,335	\$3,352,694	\$16,579,911	\$8,436,029	\$326,670			
Commercial & Industrial	\$67,744,918	-\$623,433	\$40,760,683	\$67,121,485	\$0			

Table E-9
Rhode Island Energy
Revolving Loan Fund Projections

Large C&I Revolving Loan Fund			Small Business Revolving Loan Fund		
(1) Total Loan Fund Deposits Through 2022	\$	20,547,780	(1) Total Loan Fund Deposits Through 2022	\$	3,303,570
(2) Current Loan Fund Balance	\$	4,360,123	(2) Current Loan Fund Balance	\$	2,726,897
<i>Loans Paid Year-To-Date</i>	\$	2,330,246	<i>Loans Paid Year-To-Date</i>	\$	167,275
<i>Repayments Year-To-Date</i>	\$	2,572,300	<i>Repayments Year-To-Date</i>	\$	328,808
(3) Projected Additional Loans by Year End 2022	\$	4,880,000	(3) Projected Additional Loans by Year End 2022	\$	504,725
(4) Projected Additional Repayments by Year End 2022	\$	4,561,651	(4) Projected Additional Repayments by Year End 2022	\$	317,402
(5) Projected Year End Loan Fund Balance 2022	\$	4,041,773	(5) Projected Year End Loan Fund Balance 2022	\$	2,539,574
(6) 2023 Fund Injection	\$	2,000,000	(6) 2023 Fund Injection	\$	-
(7) Projected Loan Fund Balance, January 2023	\$	6,041,773	(7) Projected Loan Fund Balance, January 2023	\$	2,539,574
(8) Projected Repayments throughout 2023	\$	4,762,036	(8) Projected Repayments throughout 2023	\$	147,982
(9) Estimated Loans in 2023	\$	9,100,000	(9) Estimated Loans in 2023	\$	1,000,000
(10) Projected Year End Loan Fund Balance 2023	\$	1,703,810	(10) Projected Year End Loan Fund Balance 2023	\$	1,687,556

Public Sector Revolving Loan Fund			Efficient Buildings Fund		
(1) Total Loan Fund Deposits Through 2022	\$	53,994	(1) Energy Efficiency Funds allocated to EBF through 2021	\$	22,087,113
(2) Current Loan Fund Balance	\$	46,798	(2) Total EBF Loans Outstanding	\$	55,075,045
<i>Funds returned to OER</i>	\$	-			
<i>Repayments Year-To-Date</i>	\$	5,388			
(3) Projected Additional Loans by Year End	\$	-			
(4) Projected Additional Repayments by Year End	\$	-			
(5) Projected Year End Loan Fund Balance 2022	\$	46,798			
(6) 2023 Fund Injection	\$	-			
(7) Projected Loan Fund Balance, January 2023	\$	46,798			
(8) Projected Repayments throughout 2023	\$	-			
(9) Estimated Loans in 2023	\$	-			
(10) Projected Year End Loan Fund Balance 2023	\$	46,798			

Notes

- (1) Funding injections since loan funds began. Net of any adjustments.
- (2) Current Loan Fund Balance is through May 2022; it includes all loans and repayments made by May 2022. Public Sector Revolving Loan Fund reduced by transfers to RI PEP Incentives. EBF reports in terms of loans outstanding.
- (3) Projected Loans from May to Year-End 2022 is estimated based on projects currently under construction that are anticipated to be paid out by year-end. It is difficult to project this amount accurately due to the fact that projects could be delayed by a month or two resulting in payment occurring in 2023 instead of 2022.
- (4) Projected Repayments from June to Year-End 2022 is estimated based on the monthly average amount of repayments.
- (5) Equal to (2) - (3) + (4).
- (6) Fund injection of \$2M for the Large C&I Revolving Loan Fund is included under the Finance Cost line in Table E-2.
- (7) Equal to (5) + (6).
- (8) Assumption based on monthly average repayments in 2022 over 12 month period; repayments accumulate over time and may vary widely.
- (9) Amount projected to be lent to customers in 2023
- (10) Equal to (7) + (8) - (9).

The 2023 Annual Plan only includes two values for Efficient Buildings Fund (EBF): 1) The Energy Efficiency Funds allocated to EBF through 2021. 2) Total EBF Loans Outstanding as of July 2022. Additional information is not available because RIB has informed the Company that, commencing with the 2022 Plan, it will not be providing forward looking projections to the Company regarding EBF. The Company is therefore unable to provide any future projections in the 2023 Annual Plan regarding EBF. The state's System Reliability and Least Cost procurement statute (amended in 2021) directs that \$5M shall be transferred to RIB. However, RIB has not informed the Company the statutory \$5M transfer to RIB in 2023 will go to EBF.

Table E-10
Rhode Island Energy
Rhode Island Electric Energy Efficiency 2003 - 2023
(\$000)

Electric	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013 ⁽⁴⁾	2014	2015	2016	2017	2018	2019	2020	2021	2022 ⁽⁵⁾	2023 ⁽⁶⁾
Energy Efficiency Budget (\$Million) ⁽¹⁾	\$23.1	\$22.6	\$23.1	\$22.4	\$22.5	\$21.0	\$32.4	\$37.6	\$59.2	\$61.4	\$77.5	\$87.0	\$86.6	\$87.5	\$94.6	\$94.6	\$107.5	\$111.1	\$116.8	\$108.7	\$102.7
Spending Budget (\$Million) ⁽²⁾	\$16.3	\$15.8	\$17.6	\$16.5	\$16.4	\$14.7	\$23.5	\$28.8	\$45.3	\$55.3	\$64.8	\$80.6	\$77.3	\$77.6	\$88.5	\$88.7	\$98.1	\$101.1	\$104.8	\$93.0	\$86.2
Actual Expenditures (\$Million) ⁽³⁾	\$22.8	\$19.5	\$23.4	\$23.7	\$21.9	\$19.2	\$31.7	\$29.7	\$40.0	\$50.7	\$72.9	\$85.3	\$87.4	\$78.4	\$94.8	\$93.0	\$100.7	\$88.2	\$94.6		
Incentive Percentage ⁽¹⁰⁾	4.4%	4.4%	4.4%	4.4%	4.4%	4.4%	4.4%	4.4%	4.4%	4.4%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	N/A	N/A	N/A
Target Incentive	\$712,557	\$781,959	\$774,689	\$726,627	\$723,000	\$647,689	\$1,035,943	\$1,267,043	\$1,992,513	\$2,434,131	\$3,240,747	\$4,032,000	\$3,867,400	\$3,878,087	\$4,425,528	\$4,436,022	\$4,905,009	\$5,054,448	\$5,500,000	\$3,390,165	\$3,286,320
Earned Incentive	\$712,557	\$604,876	\$795,648	\$760,623	\$716,075	\$675,282	\$1,085,888	\$1,333,996	\$1,929,273	\$2,469,411	\$2,997,681	\$4,223,321	\$4,533,360	\$4,128,034	\$4,829,847	\$4,940,402	\$3,290,237	\$3,242,675	\$3,464,590		
Annual Summer Demand kW Savings Goal Achieved (%)				106%	106%	113%	142%	78%	71%	83%	114%	78%	112%	101%	103%	116%	98%	79%	83%		
Annual MWh Energy Savings Goal Achieved (%)				111%	102%	111%	115%	107%	94%	93%	99%	105%	115%	107%	115%	110%	98%	88%	95%		
Energy Efficiency Program Charge (\$/kWh) ⁽⁷⁾	\$0.00200	\$0.00200	\$0.00200	\$0.00200	\$0.00200	\$0.00200	\$0.00320	\$0.00320	\$0.00526	\$0.00592	\$0.00876	\$0.00911	\$0.00953	\$0.01077	\$0.01124	\$0.00972	\$0.01121	\$0.01323	\$0.01113	\$0.01213	\$0.00739
Annual Cost to 500 kWh/month Residential Customer w/o tax ⁽⁸⁾	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00	\$19.20	\$19.20	\$31.56	\$35.52	\$52.56	\$54.66	\$57.18	\$64.62	\$67.44	\$58.32	\$67.26	\$79.38	\$66.78	\$72.78	\$44.34
Annual Cost to 500 kWh/month Residential Customer w/ tax ⁽⁹⁾	\$12.50	\$12.50	\$12.50	\$12.50	\$12.50	\$12.50	\$20.00	\$20.00	\$32.88	\$37.00	\$54.75	\$56.94	\$59.56	\$67.31	\$70.25	\$60.75	\$70.06	\$82.69	\$69.56	\$75.81	\$46.19

Notes:

- (1) Energy Efficiency Budget includes total expenditures and commitments. Includes all demand side management program-related expenses, including rebates, administration and general expenses, evaluation, commitments for future years and Company incentive.
- (2) Prior to 2017, Spending Budget Eligible for Shareholder Incentive includes: Implementation, Administration, General, and Evaluation Expenses; excludes EERMC and OER Costs, Commitments, Copays, and Outside Finance Costs. Beginning in 2017, Outside Finance Costs were also included. Beginning in 2019 ConnectedSolutions expenses and assessments were also excluded.
- (3) Actual Expenditures is actual spend during calendar year. Includes expenditures and commitments. Includes all demand side management program-related expenses, including rebates, administration and general expenses, evaluation, commitments for future years and Company incentive.
- (4) In the Company's gas and electric rate cases in docket 4323, the PUC approved the uncollectibles gross-up in the electric EE Program Charge effective February 1, 2013, and a new rate applicable to the gross-up of the gas EE Program Charge, effective February 1, 2013.
- (5) 2022 values are planned.
- (6) 2023 values are proposed.
- (7) Beginning in 2012, the EE Program Charge includes the System Reliability Factor. It does not include the \$0.0003 renewables per RI General Laws §39-2-1.2 and Order #19608, which appears on customer bills. In 2022, the surcharge was in effect for an 11 month period beginning February 1, 2022.
- (8) Reflects the annual cost excluding Gross Earnings Tax.
- (9) Reflects the annual cost including Gross Earnings Tax.
- (10) Incentive percentage not applicable for 2021 and going forward due to new performance incentive mechanism developed for the 2021 Annual Plan. See Section 11 of the Main Text of the 2023 Annual Plan for additional details.

Table G-1
Rhode Island Energy
Gas DSM Funding Sources in 2023 by Sector
\$(000)

	<u>Projections by Sector</u>			Total
	Income Eligible Residential	Non-Income Eligible Residential	Commercial & Industrial	
(1) Projected Budget (from G-2):	\$8,742.0	\$17,185.5	\$10,970.5	\$36,897.988
Sources of Other Funding:				
Projected Year-End 2022 Fund Balance and Interest,				
(2) Less Prior Years' Investigation Credit:	(\$18.5)	(\$4,629)	\$5,902.8	\$1,255.6
(3) Prior Years Investigation Credit:	\$18.5	\$209	\$335.1	\$562.7
(4) Total Other Funding:	\$0.0	(\$4,419.5)	\$6,237.8	\$1,818.3
(5) Customer Funding Required:	\$8,742.0	\$21,604.9	\$4,732.7	\$35,079.6
(6) Forecasted Firm Dth Volume	1,751,260	18,641,723	19,659,477	40,052,460
(7) Forecasted Non Firm Dth Volume			237,451	237,451
(8) Less: Exempt DG Customers			(1,562,431)	(1,562,431)
(9) Forecasted Dth Volume:	1,751,260	18,641,723	18,334,497	38,727,480
(10) Average Energy Efficiency Program Charge per Dth excluding Uncollectible Recovery:				\$0.905
(11) Proposed Energy Efficiency Program Charge per Dth excluding Uncollectible Recovery	\$1.166	\$1.166	\$0.615	
(12) Currently Effective Uncollectible Rate	<u>1.91%</u>	<u>1.91%</u>	<u>1.91%</u>	
(13) Proposed Energy Efficiency Program Charge per Dth, including Uncollectible Recovery:	\$1.188	\$1.188	\$0.6260	
(14) Currently Effective Energy Efficiency Program Charge per Dth	\$1.354	\$1.354	\$0.8860	
(15) Adjustment to Reflect Fully Reconciling Funding Mechanism	(\$0.166)	(\$0.166)	(\$0.260)	

Notes

This fund balance includes actuals as of October 2022.

The added row titled "Prior Years Investigation Credit" does not influence final numbers in this table since it is a sub-set of the "Projected Year-End 2022 Fund Balance and Interest." It is being added just to aid in review per the request of PUC and Division counsel.

(1) Projected Budget from G-2 includes OER and EERMC costs allocated to each sector based on forecasted volume.

(2) Fund Balance projections include projected revenue and spend through year-end with Residential and C&I sector subsidies applied to Income Eligible as detailed in the 2023 EE Plan Table G-1

(3) The fund balance includes a \$562,736 credit from shareholder funds to the fund balance, with interest, which the Company made in May and June, 2022 based on the Company's involvement in Docket 22-05-EE. The change in performance incentive (PI) was determined by recalculating each year's PI with the savings and spend from the applications in question, recast into the corrected year. This was done in January for Electric (2016-2020) and in May for Electric and Gas (2012-2020). The May calculation was aggregated and then split between Electric and Gas based on the actual Electric (75.62%) and Gas (24.38%) spending splits during the 2012 - 2020 period. For both calculations, monthly compounding interest was applied through 2022, based on the appropriate Electric and Gas interest rates. These credits were then booked in SAP at the time they were calculated (January, May, June), and reflected in the Electric and Gas Fund Balances accordingly.

Credit Description	CALENDAR YEAR								TOTAL	ALLOCATION		
	2012	2013	2014	2015	2016	2017	2018	2019		2020	ELECTRIC	GAS
PI Overage (Jan Calc)					(\$880)	(\$49,900)	\$68,627	\$43,583	\$62,705	\$124,135	\$124,135	
Interest On Overage (Jan Calc)					(\$98)	(\$4,382)	\$4,639	\$1,909	\$1,117	\$3,185	\$3,185	
Additional PI Overage (May Calc)	\$15,360	\$291,189		\$175,547	\$752,661	\$527,388	\$243,408	(\$43,583)	\$108,234	\$2,070,204	\$1,565,443	\$504,762
Interest On Overage (June Calc)	\$2,911	\$47,886		\$22,560	\$85,010	\$48,522	\$17,446	(\$2,063)	\$2,440	\$224,711	\$166,736	\$57,975
										\$2,422,235	\$1,859,499	\$562,736

(4) Line (2) + Line (3)

(11) The proposed EE program charges allow for the use of collections from one sector to fund energy efficiency services in other sectors that would otherwise not be supported with the proposed collection rates.

(12) Uncollectible rate approved in Docket No. 4770.

(14) This is an 11 month rate that went into effect February 1, 2022.

Table G-2
Rhode Island Energy
2023 Gas Energy Efficiency Program Budget (\$000)

	Program Planning & Administration	Marketing	Rebates and Other Customer Incentives	Sales, Tech Assist & Training	Evaluation & Market Research	Performance Incentive	Grand Total
Non-Income Eligible Residential:							
ENERGY STAR [®] HVAC	\$124.5	\$207.0	\$2,972.0	\$254.2	\$29.1	\$0.0	\$3,586.8
EnergyWise	\$280.3	\$62.4	\$8,021.6	\$1,388.0	\$175.8	\$0.0	\$9,928.1
EnergyWise Multifamily	\$71.2	\$50.8	\$1,167.3	\$180.6	\$15.5	\$0.0	\$1,485.4
Home Energy Reports	\$8.8	\$0.0	\$0.0	\$349.3	\$2.4	\$0.0	\$360.5
Residential Pilots	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Residential New Construction	\$55.2	\$2.1	\$358.5	\$166.5	\$39.2	\$0.0	\$621.5
Comprehensive Marketing - Residential	\$0.1	\$69.0	\$0.0	\$0.0	\$0.0	\$0.0	\$69.1
Community Based Initiatives - Residential	\$12.3	\$45.8	\$35.3	\$0.0	\$0.0	\$0.0	\$93.5
Residential Workforce Development	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Residential Performance Incentive	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Subtotal - Non-Income Eligible Residential	\$552.5	\$437.2	\$12,554.6	\$2,338.6	\$261.9	\$0.0	\$16,144.8
Income Eligible Residential:							
Single Family - Income Eligible Services	\$193.0	\$22.0	\$4,164.3	\$1,015.4	\$34.1	\$0.0	\$5,428.9
Income Eligible Multifamily	\$114.4	\$8.6	\$2,653.7	\$410.7	\$28.0	\$0.0	\$3,215.3
Income Eligible Workforce Development	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Income Eligible Performance Incentive	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Subtotal - Income Eligible Residential	\$307.4	\$30.7	\$6,818.0	\$1,426.1	\$62.0	\$0.0	\$8,644.2
Commercial & Industrial							
Large Commercial New Construction	\$100.8	\$104.7	\$1,524.9	\$863.2	\$225.0	\$0.0	\$2,818.6
Large Commercial Retrofit	\$223.4	\$172.8	\$2,272.5	\$1,761.7	\$209.2	\$0.0	\$4,639.5
Small Business Direct Install	\$13.0	\$16.2	\$598.6	\$59.6	\$2.4	\$0.0	\$689.8
Commercial & Industrial Multifamily	\$37.0	\$25.4	\$659.7	\$161.6	\$7.6	\$0.0	\$891.2
Commercial Pilots	\$2.4	\$0.0	\$0.0	\$10.0	\$0.0	\$0.0	\$12.4
Finance Costs	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Community Based Initiatives - C&I	\$4.1	\$15.3	\$11.8	\$0.0	\$0.0	\$0.0	\$31.2
Commercial Workforce Development	\$0.0	\$0.0	\$0.0	\$67.5	\$0.0	\$0.0	\$67.5
Commercial & Industrial Performance Incentive	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$796.8	\$796.8
Subtotal - Commercial & Industrial	\$380.7	\$334.3	\$5,067.4	\$2,923.6	\$444.3	\$796.8	\$9,947.1
Regulatory							
EERMC	\$274.1	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$274.1
OER	\$625.3	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$625.3
Rhode Island Infrastructure Bank	\$0.0	\$0.0	\$1,262.5	\$0.0	\$0.0	\$0.0	\$1,262.5
Subtotal - Regulatory	\$899.4	\$0.0	\$1,262.5	\$0.0	\$0.0	\$0.0	\$2,161.9
Grand Total	\$2,139.9	\$802.1	\$25,702.6	\$6,688.3	\$768.2	\$796.8	\$36,898.0

Notes:

- (1) OER budget is equal to the SBC collections after zeroing out EERMC and OER budgets times 3% times 60%. EERMC budget was approved by the EERMC on November 22nd, 2022 for a total between gas and electric of \$1,096,299.14. 25% of that total has been allocated to the gas budget, in accordance with the proportions of the gas and electric budget.
- (2) Demonstrations and Assessments are included in specific program level budgets listed above. More information on Demonstration and Assessments descriptions, budgets, and which program level budget they are included in can be found in Attachment 8.
- (3) Based on the state's System Reliability and Least Cost procurement statute (amended in 2021), funds transferred to the Rhode Island Infrastructure Bank are now classified under Regulatory costs.

Table G-3
Rhode Island Energy
Derivation of the 2023 Eligible PIM & Implementation Budgets (\$000)

	Proposed 2023 Budget From G-2 (\$000)	Outside Finance and Stakeholder Oversight Costs (\$000)	Performance Incentive (\$000)	Eligible Sector PIM Budget for Performance Incentive on G-8 (\$000) ¹	Implementation Expenses for Cost-Effectiveness on G-5 (\$000) ²
Non-Income Eligible Residential					
ENERGY STAR® HVAC	\$3,586.8				\$3,586.8
EnergyWise	\$9,928.1				\$9,928.1
EnergyWise Multifamily	\$1,485.4				\$1,485.4
Home Energy Reports	\$360.5				\$360.5
Residential Pilots	\$0.0				\$0.0
Residential New Construction	\$621.5				\$621.5
Comprehensive Marketing - Residential	\$69.1				\$69.1
Community Based Initiatives - Residential	\$93.5				\$93.5
Residential Workforce Development	\$0.0				\$0.0
Residential Performance Incentive	\$0.0		\$0.0		\$0.0
Subtotal - Non-Income Eligible Residential	\$16,144.8	\$0.0	\$0.0	\$16,144.8	\$16,144.8
Income Eligible Residential					
Single Family - Income Eligible Services	\$5,428.9				\$5,428.9
Income Eligible Multifamily	\$3,215.3				\$3,215.3
Income Eligible Workforce Development	\$0.0				\$0.0
Income Eligible Performance Incentive	\$0.0		\$0.0		\$0.0
Subtotal - Income Eligible Residential	\$8,644.2	\$0.0	\$0.0	\$8,644.2	\$8,644.2
Commercial & Industrial					
Large Commercial New Construction	\$2,818.6				\$2,818.6
Large Commercial Retrofit	\$4,639.5				\$4,639.5
Small Business Direct Install	\$689.8				\$689.8
Commercial & Industrial Multifamily	\$891.2				\$891.2
Commercial Pilots	\$12.4				\$12.4
Finance Costs	\$0.0				\$0.0
Community Based Initiatives - C&I	\$31.2				\$31.2
Commercial Workforce Development	\$67.5				\$67.5
Commercial & Industrial Performance Incentive	\$796.8		\$796.8		\$0.0
Subtotal - Commercial & Industrial	\$9,947.1	\$0.0	\$796.8	\$9,085.4	\$9,150.3
Regulatory					
EERMC	\$274.1	\$274.1			\$274.1
OER	\$625.3	\$625.3			\$625.3
Rhode Island Infrastructure Bank	\$1,262.5	\$1,262.5			\$1,262.5
Subtotal - Regulatory	\$2,161.9	\$2,161.9			\$2,161.9
Grand Total	\$36,898.0	\$2,161.9	\$796.8	\$33,874.5	\$36,101.2

Notes:

- (1) Eligible Sector Spending Budget for Performance Incentive = Budget from G-2 minus Regulatory Costs, Pilots, Assessments, and Performance Incentive.
- (2) Implementation Expenses = Budget from G-2 minus Performance Incentive.
- (3) Eligible Sector Spending Budget does not include assessments, see Attachment 8 for assessments budgets.

Table G-4
Rhode Island Energy
Proposed 2023 Budget Compared to Approved 2022 Budget (\$000)

	Proposed Implementation Budget 2023	Approved Implementation Budget 2022	Difference
Non-Income Eligible Residential			
ENERGY STAR® HVAC	\$3,586.8	\$3,650.5	-\$63.7
EnergyWise	\$9,928.1	\$8,575.0	\$1,353.1
EnergyWise Multifamily	\$1,485.4	\$1,488.6	-\$3.3
Home Energy Reports	\$360.5	\$441.5	-\$81.0
Residential Pilots	\$0.0	\$0.0	\$0.0
Residential New Construction	\$621.5	\$566.4	\$55.1
Comprehensive Marketing - Residential	\$69.1	\$68.0	\$1.1
Community Based Initiatives - Residential	\$93.5	\$85.0	\$8.5
Residential Performance Incentive	\$0.0	\$0.0	\$0.0
Subtotal - Non-Income Eligible Residential	\$16,144.8	\$14,875.0	\$1,269.8
Income Eligible Residential			
Single Family - Income Eligible Services	\$5,428.9	\$6,370.0	-\$941.2
Income Eligible Multifamily	\$3,215.3	\$2,947.5	\$267.8
Income Eligible Performance Incentive	\$0.0	\$0.0	\$0.0
Subtotal - Income Eligible Residential	\$8,644.2	\$9,317.6	-\$673.4
Commercial & Industrial			
Large Commercial New Construction	\$2,818.6	\$3,140.9	-\$322.3
Large Commercial Retrofit	\$4,639.5	\$4,672.1	-\$32.6
Small Business Direct Install	\$689.8	\$354.1	\$335.7
Commercial & Industrial Multifamily	\$891.2	\$957.0	-\$65.8
Commercial Pilots	\$12.4	\$215.8	-\$203.4
Finance Costs	\$0.0	\$0.0	\$0.0
Community Based Initiatives - C&I	\$31.2	\$28.3	\$2.8
Commercial Workforce Development	\$67.5	\$67.5	\$0.0
Commercial & Industrial Performance Incentive	\$796.8	\$1,000.0	-\$203.2
Subtotal Commercial & Industrial	\$9,947.1	\$10,435.7	-\$488.6
Regulatory			
EERMC	\$274.1	\$259.5	\$14.6
OER	\$625.3	\$755.6	-\$130.3
Rhode Island Infrastructure Bank	\$1,262.5	\$1,262.5	\$0.0
Subtotal Regulatory	\$2,161.9	\$2,277.6	-\$115.8
TOTAL BUDGET	\$36,898.0	\$36,906.0	-\$8.0

Notes:

- (1) Program Implementation Budget excludes Commitments, Company Incentive; derived on Table G-3
- (2) Total Budget includes Implementation, Commitments; illustrated on Table G-3
- (3) Performance Incentive is allocated to the C&I Sector Consistent with the final PIM approved in Docket 5076.

**Table G-5 - Primary
Rhode Island Energy
Calculation of 2023 Program Year Cost-Effectiveness
All Dollar Values in (\$000)**

	Rhode Island Benefit/ Cost ¹	Total Benefit	Program Implementation Expenses ²	Customer Contribution	Performance Incentive	\$/Lifetime MMBtu
Non-Income Eligible Residential						
Energy Star® HVAC	1.42	\$10,389.4	\$3,586.8	\$3,718.7		\$14.11
EnergyWise	1.02	\$10,970.1	\$9,928.1	\$872.1		\$22.04
EnergyWise MultiFamily	3.87	\$5,172.4	\$1,485.4	-\$150.1		\$12.09
Home Energy Reports	4.72	\$1,701.9	\$360.5	\$0.0		\$3.93
Residential New Construction	1.52	\$1,400.9	\$621.5	\$301.1		\$15.78
Comprehensive Marketing - Residential			\$69.1			
Community Based Initiatives - Residential			\$93.5			
Residential Pilots			\$0.0			
Non-Income Eligible Residential Subtotal	1.42	\$29,634.7	\$16,144.8	\$4,741.8	\$0.0	\$16.47
Income Eligible Residential						
Single Family - Income Eligible Services	1.87	\$10,138.9	\$5,428.9	\$0.0		\$32.09
Income Eligible Multifamily	3.05	\$9,807.3	\$3,215.3	\$0.0		\$18.64
Income Eligible Residential Subtotal	2.31	\$19,946.2	\$8,644.2	\$0.0	\$0.0	\$25.30
Large Commercial & Industrial						
Large Commercial New Construction	6.09	\$17,538.9	\$2,818.6	\$60.5		\$4.02
Large Commercial Retrofit	2.35	\$16,873.4	\$4,639.5	\$2,537.2		\$7.06
Small Business Direct Install	2.77	\$2,372.2	\$689.8	\$166.3		\$6.58
Commercial & Industrial Multifamily	4.93	\$5,917.1	\$891.2	\$309.9		\$18.58
Commercial Pilots			\$12.4			
Community Based Initiatives - C&I			\$31.2			
Finance Costs			\$0.0			
Commercial Workforce Development			\$67.5			
Commercial & Industrial Subtotal	3.28	\$42,701.7	\$9,150.3	\$3,073.9	\$796.8	\$6.34
Regulatory						
EERMC			\$274.1			
OER			\$625.3			
Rhode Island Infrastructure Bank			\$1,262.5			
Regulatory Subtotal			\$2,161.9			
Grand Total	2.06	\$92,282.6	\$36,101	\$7,815.7	\$796.8	\$12.41

Notes:

- (1) RI Test B/C Test = Total Benefits from Table G-6 excluding Economic Benefits / Program Implementation Expenses from Table G-3 and Customer Contribution. Also includes effects of free-ridership and spillover.
- (2) For Implementation Expenses derivation, see Table G-3.

Table G-5 - Economic Benefits
Rhode Island Energy
Calculation of 2023 Economic Benefits and Job Years
All Dollar Values in (\$000)

	Program Implementation Expenses¹	RI Economic Multiplier (GDP/\$ Program Impl.)	Economic Benefits	RI Job Years Multiplier (Job Years/\$M Program Impl.)	Job Years
Non-Income Eligible Residential					
Energy Star® HVAC	\$3,587	\$0.97	\$3,479.2	6.9	25
EnergyWise	\$9,928	\$1.08	\$10,722.4	11.9	118
EnergyWise MultiFamily	\$1,485	\$1.70	\$2,525.1	16.5	25
Home Energy Reports	\$361	\$1.12	\$403.8	7.5	3
Residential New Construction	\$622	\$0.34	\$211.3	2.4	1
Comprehensive Marketing - Residential	\$69		\$0.0		
Community Based Initiatives - Residential	\$93		\$0.0		
Residential Pilots	\$0		\$0.0		
Non-Income Eligible Residential SUBTOTAL	\$16,145		\$17,341.8		172
Income Eligible Residential					
Single Family - Income Eligible Services	\$5,429	\$1.05	\$5,700.3	12.1	66
Income Eligible Multifamily	\$3,215	\$1.62	\$5,208.9	16.0	51
Income Eligible Residential SUBTOTAL	\$8,644		\$10,909.2		117
Commercial & Industrial					
Large Commercial New Construction	\$2,819	\$0.74	\$2,085.8	1.2	3
Large Commercial Retrofit	\$4,640	\$2.10	\$9,743.0	16.4	76
Small Business Direct Install	\$690	\$1.39	\$958.8	13.4	9
Commercial & Industrial Multifamily	\$891	\$1.55	\$1,381.4	11.0	10
Commercial Pilots	\$12		\$0.0		
Community Based Initiatives - C&I	\$31		\$0.0		
Finance Costs	\$0		\$0.0		
Commercial Workforce Development	\$68		\$0.0		
C&I SUBTOTAL	\$9,150		\$14,169.0		99
Regulatory					
OER	\$625		\$0.0		-
EERMC	\$274		\$0.0		-
Rhode Island Infrastructure Bank	\$1,263		\$0.0		-
Regulatory SUBTOTAL	\$2,162		\$0.0		-
TOTAL	\$36,101		\$42,419.9		387

Notes:

(1) For Implementation Expenses derivation, see Table G-3.

(2) RI Economic and Job Years Multipliers from "Economic Multipliers Update" filed by National Grid in Docket 5189.

Table G-5A
Rhode Island Energy
Calculation of 2023 Program Year Cost-Effectiveness with TRC Test
All Dollar Values in (\$000)

	TRC Benefit/ Cost	Total Benefit	Program Implementation Expenses	Customer Contribution	Performance Incentive	\$/Lifetime MMBtu
Non-Income Eligible Residential						
Energy Star® HVAC	0.95	\$6,930.7	\$3,586.8	\$3,718.7		\$14.1
EnergyWise	0.75	\$8,120.0	\$9,928.1	\$872.1		\$22.0
EnergyWise MultiFamily	3.37	\$4,497.5	\$1,485.4	-\$150.1		\$12.1
Home Energy Reports	2.02	\$726.6	\$360.5	\$0.0		\$3.9
Residential New Construction	1.12	\$1,032.1	\$621.5	\$301.1		\$15.8
Comprehensive Marketing - Residential			\$69.1			
Community Based Initiatives - Residential			\$93.5			
Residential Pilots			\$0.0			
Residential Workforce Development			\$0.0			
Non-Income Eligible Residential Subtotal	1.02	\$21,306.9	\$16,144.8	\$4,741.8	\$0.0	\$16.5
Income Eligible Residential						
Single Family - Income Eligible Services	1.67	\$9,062.6	\$5,428.9	\$0.0		\$32.1
Income Eligible Multifamily	2.67	\$8,596.0	\$3,215.3	\$0.0		\$18.6
Income Eligible Workforce Development			\$0.0			\$0.0
Income Eligible Residential Subtotal	2.04	\$17,658.6	\$8,644.2	\$0.0	\$0.0	\$25.3
Large Commercial & Industrial						
Large Commercial New Construction	4.31	\$12,404.2	\$2,818.6	\$60.5		\$4.0
Large Commercial Retrofit	1.28	\$9,203.4	\$4,639.5	\$2,537.2		\$7.1
Small Business Direct Install	1.66	\$1,420.4	\$689.8	\$166.3		\$6.6
Commercial & Industrial Multifamily	4.54	\$5,453.4	\$891.2	\$309.9		\$18.6
Commercial Pilots			\$12.4	\$0.0		
Community Based Initiatives - C&I			\$31.2	\$0.0		
Finance Costs			\$0.0	\$0.0		
Commercial Workforce Development			\$67.5	\$0.0		
Commercial & Industrial Subtotal	2.19	\$28,481.5	\$9,150.3	\$3,073.9	\$796.8	\$6.3
Regulatory						
EERMC			\$274.1			
OER			\$625.3			
Rhode Island Infrastructure Bank			\$1,262.5			
Regulatory Subtotal			\$2,161.9			
Grand Total	1.51	\$67,446.9	\$36,101.2	\$7,815.7	\$796.8	\$12.4

Notes:

(1) TRC B/C Test = (Energy + Capacity + Resource Benefits) / (Program Implementation + Customer Contribution + Performance Incentive)

Also includes effects of free-ridership and spillover.

(2) For Implementation Expenses derivation, see Table G-3.

Table G-6
Rhode Island Energy
Summary of 2023 Benefits by Program

	Benefits (\$000)																			
	Total	Total (Economic Excluded)	Natural Gas Benefits		Electric Capacity					Electric Energy				Non-Electric and Non-Gas			Societal			
			Natural Gas	Natural Gas DRIPE	Summer Generation	Capacity DRIPE	Trans	Dist	Reliability	Winter		Summer		Electric Energy DRIPE	Oil and Oil DRIPE	Other Resource	Non Resource	Carbon	NOx	Economic
										Winter Peak	Winter Off Peak	Summer Peak	Summer Off Peak							
Non-Income Eligible Residential																				
EnergyWise	\$21,693	\$10,970	\$4,431	\$28	\$61	\$106	\$82	\$101	\$5	\$52	\$59	\$54	\$47	\$38	\$0	\$75	\$2,982	\$2,518	\$332	\$10,722
Energy Star® HVAC	\$13,869	\$10,389	\$4,690	\$37	\$173	\$466	\$240	\$296	\$23	\$16	\$5	\$129	\$108	\$73	\$0	\$44	\$629	\$3,101	\$357	\$3,479
EnergyWise Multifamily	\$7,698	\$5,172	\$990	\$7	\$6	\$13	\$8	\$10	\$1	\$1	\$0	\$5	\$4	\$2	\$0	\$42	\$3,407	\$600	\$75	\$2,525
Home Energy Reports	\$2,106	\$1,702	\$696	\$30	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$912	\$64	\$404
Residential New Construction	\$1,612	\$1,401	\$526	\$4	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$7	\$494	\$329	\$40	\$211
Non-Income Eligible Residential SUBTOTAL	\$46,976	\$29,635	\$11,334	\$106	\$240	\$584	\$331	\$407	\$29	\$68	\$64	\$188	\$159	\$113	\$0	\$169	\$7,513	\$7,459	\$868	\$17,342
Income Eligible Residential																				
Single Family - Income Eligible Services	\$15,839	\$10,139	\$1,552	\$11	\$18	\$35	\$24	\$30	\$2	\$20	\$23	\$15	\$13	\$16	\$0	\$0	\$7,304	\$960	\$117	\$5,700
Income Eligible Multifamily	\$15,016	\$9,807	\$1,556	\$15	\$7	\$22	\$10	\$12	\$1	\$1	\$1	\$5	\$4	\$4	\$0	\$24	\$6,933	\$1,093	\$118	\$5,209
Income Eligible Residential SUBTOTAL	\$30,855	\$19,946	\$3,108	\$26	\$25	\$57	\$34	\$42	\$3	\$21	\$24	\$20	\$17	\$20	\$0	\$24	\$14,237	\$2,053	\$235	\$10,909
Commercial & Industrial																				
Large Commercial New Construction	\$19,625	\$17,539	\$5,443	\$51	\$79	\$157	\$108	\$132	\$8	\$0	\$0	\$0	\$0	\$0	\$0	\$148	\$6,279	\$4,613	\$522	\$2,086
Large Commercial Retrofit	\$26,616	\$16,873	\$8,295	\$113	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$796	\$6,924	\$746	\$9,743
Small Business Direct Install	\$3,331	\$2,372	\$1,023	\$11	\$0	\$0	\$0	\$0	\$0	\$4	\$3	\$1	\$1	\$3	\$0	\$317	\$58	\$856	\$96	\$959
Commercial & Industrial Multifamily	\$7,299	\$5,917	\$548	\$6	\$3	\$10	\$4	\$5	\$0	\$0	\$0	\$2	\$2	\$2	\$0	\$4	\$4,866	\$417	\$47	\$1,381
Commercial & Industrial SUBTOTAL	\$56,871	\$42,702	\$15,308	\$181	\$82	\$166	\$112	\$138	\$8	\$4	\$3	\$3	\$3	\$5	\$0	\$469	\$11,998	\$12,809	\$1,411	\$14,169
Grand Total	\$134,703	\$92,283	\$29,750	\$313	\$347	\$808	\$477	\$586	\$41	\$94	\$92	\$212	\$179	\$138	\$0	\$662	\$33,748	\$22,321	\$2,514	\$42,420

Table G-6A
Rhode Island Energy
Summary of 2023 Impacts by Program

	Gas Savings			Electric Energy Savings					Total Savings (Gas, Electric)		Total Carbon Savings
	MMBtu		short tons CO ₂	MWh		MMBtu		short tons CO ₂	MMBtu		short tons CO ₂
	Annual	Lifetime	Annual ¹	Annual	Lifetime	Annual	Lifetime	Annual ²	Annual	Lifetime	Annual ²
Non-Income Eligible Residential											
EnergyWise	20,697	490,013	1,422	116	2,713	394	9,258	55	21,092	499,271	1,477
Energy Star® HVAC	27,030	517,571	1,978	281	4,173	957	14,238	128	27,987	531,809	2,106
EnergyWise Multifamily	5,358	110,428	440	9	158	29	540	6	5,387	110,968	446
Home Energy Reports	91,640	91,640	5,361	-	-	-	-	-	91,640	91,640	5,361
Residential New Construction	3,287	58,476	215	-	-	-	-	-	3,287	58,476	215
Non-Income Eligible Residential SUBTOTAL	148,013	1,268,128	9,416	405	7,045	1,380	24,036	188	149,393	1,292,165	9,604
Income Eligible Residential											
Single Family - Income Eligible Services	8,230	169,180	481	51	1,022	173	3,485	20	8,403	172,665	501
Income Eligible Multifamily	11,075	172,464	648	15	189	49	643	5	11,125	173,107	653
Income Eligible Residential SUBTOTAL	19,305	341,644	1,129	65	1,210	222	4,129	25	19,528	345,773	1,155
Commercial & Industrial											
Large Commercial New Construction	48,823	716,705	5,075	-	-	-	-	-	48,823	716,705	5,075
Large Commercial Retrofit	94,766	1,016,519	5,095	-	-	-	-	-	94,766	1,016,519	5,095
Small Business Direct Install	9,723	130,193	630	8	116	26	395	3	9,750	130,588	633
Commercial & Industrial Multifamily	4,249	64,645	275	6	82	22	281	4	4,270	64,927	279
Commercial & Industrial SUBTOTAL	157,561	1,928,063	11,074	14	198	48	676	8	157,609	1,928,739	11,082
Grand Total	324,879	3,537,835	21,619	484	8,453	1,650	28,841	222	326,529	3,566,676	21,841

Notes:

- 1) Lifetime savings are equal to annual savings multiplied by the expected life of measures expected to be installed in each program.
- 2) Annual short tons CO₂ savings is based on gross annual energy savings in Year 1. The AESC 2021 study was used to inform the electric emissions factor for 2023, taking the average of summer/winter on/off-peak.

Table G-7
Rhode Island Energy
Comparison of 2023 and 2022 Goals

	Proposed 2023 Goal	Proposed 2023 Tracking		Approved 2022		Difference	
	Lifetime Energy Savings (MMBtu Natural Gas)	Annual Energy Savings (MMBtu Natural Gas)	Planned Unique Participants	Lifetime Energy Savings (MMBtu Natural Gas)	Annual Energy Savings (MMBtu Natural Gas)	Lifetime Energy Savings (MMBtu Natural Gas)	Annual Energy Savings (MMBtu Natural Gas)
Non-Income Eligible Residential							
EnergyWise	490,013	20,697	1,716	478,550	20,850	11,463	-152
Energy Star® HVAC	517,571	27,030	2,904	439,717	26,740	77,854	289
EnergyWise Multifamily	110,428	5,358	3,453	147,064	8,279	-36,636	-2,921
Home Energy Reports	91,640	91,640	130,585	93,548	93,548	-1,907	-1,907
Residential New Construction	58,476	3,287	460	64,899	3,610	-6,423	-323
Non-Income Eligible Residential SUBTOTAL	1,268,128	148,013	139,117	1,223,778	153,027	44,350	-5,014
Income Eligible Residential							
Single Family - Income Eligible Services	169,180	8,230	797	218,847	10,942	-49,667	-2,712
Income Eligible Multifamily	172,464	11,075	2,742	273,085	14,700	-100,621	-3,625
Income Eligible Residential SUBTOTAL	341,644	19,305	3,539	491,932	25,642	-150,288	-6,337
Commercial & Industrial							
Large Commercial New Construction	716,705	48,823	62	788,763	52,956	-72,058	-4,133
Large Commercial Retrofit	1,016,519	94,766	59	1,332,508	142,888	-315,989	-48,122
Small Business Direct Install	130,193	9,723	146	91,700	6,113	38,494	3,610
Commercial & Industrial Multifamily	64,645	4,249	488	131,220	8,803	-66,575	-4,554
Commercial & Industrial SUBTOTAL	1,928,063	157,561	755	2,344,192	210,760	-416,129	-53,200
TOTAL	3,537,835	324,879	143,411	4,059,902	389,430	-522,067	-64,551

Notes:

- (1) Participants can participate in more than one program, for example Home Energy Reports and EnergyWise.
- (2) Planned 2023 participation takes into account net-to-gross and estimates unique participation by taking into account 2021 unique customer accounts to savings ratios. Therefore the number of planned measures may be more than the planned participants. For measure counts please view the widgets tables at the end of the Residential and C&I text sections. Table G-7 no longer includes a comparison to the previous year's participation. Due to the way unique participation is calculated it is not possible to compare year-over-year results.

Table G-8A
Rhode Island Energy
2023 Gas PIM Benefits, Allocations, and Categorization (\$000)

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
	Natural Gas Benefits		Utility NEIs	Electric Capacity				Electric Energy				Non-Electric and Non-Gas				Societal			
	Natural Gas	Natural Gas	Utility NEIs	Summer Generation	Capacity	Trans	Dist	Reliability	Winter		Summer		Electric Energy DRIFE	Oil and Oil DRIFE	Other Resource	Non Resource	Carbon	NOx	Economic
		DRIFE							Winter Peak	Winter Off Peak	Summer Peak	Summer Off Peak							
Non-Income Eligible Residential																			
EnergyWise	\$4,431	\$28	\$0	\$61	\$106	\$82	\$101	\$5	\$52	\$59	\$54	\$47	\$38	\$0	\$75	\$2,982	\$2,518	\$332	\$10,722
Energy Star® HVAC	\$4,690	\$37	\$0	\$173	\$466	\$240	\$296	\$23	\$16	\$5	\$129	\$108	\$73	\$0	\$44	\$629	\$3,101	\$357	\$3,479
EnergyWise Multifamily	\$990	\$7	\$0	\$6	\$13	\$8	\$10	\$1	\$1	\$0	\$5	\$4	\$2	\$0	\$42	\$3,407	\$600	\$75	\$2,525
Home Energy Reports	\$696	\$30	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$912	\$64	\$404
Residential New Construction	\$526	\$4	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$7	\$494	\$329	\$40	\$211
Non-Income Eligible Residential SUBTOTAL	\$11,334	\$106	\$0	\$240	\$584	\$331	\$407	\$29	\$68	\$64	\$188	\$159	\$113	\$0	\$169	\$7,513	\$7,459	\$868	\$17,342
Income Eligible Residential																			
Single Family - Income Eligible Services	\$1,552	\$11	\$79	\$18	\$35	\$24	\$30	\$2	\$20	\$23	\$15	\$13	\$16	\$0	\$0	\$7,225	\$960	\$117	\$5,700
Income Eligible Multifamily	\$1,556	\$15	\$33	\$7	\$22	\$10	\$12	\$1	\$1	\$1	\$5	\$4	\$4	\$0	\$24	\$6,901	\$1,093	\$118	\$5,209
Income Eligible Residential SUBTOTAL	\$3,108	\$26	\$112	\$25	\$57	\$34	\$42	\$3	\$21	\$24	\$20	\$17	\$20	\$0	\$24	\$14,125	\$2,053	\$235	\$10,909
Commercial & Industrial																			
Large Commercial New Construction	\$5,443	\$51	\$0	\$79	\$157	\$108	\$132	\$8	\$0	\$0	\$0	\$0	\$0	\$0	\$148	\$6,279	\$4,613	\$522	\$2,086
Large Commercial Retrofit	\$8,295	\$113	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$796	\$6,924	\$746	\$9,743
Small Business Direct Install	\$1,023	\$11	\$0	\$0	\$0	\$0	\$0	\$0	\$4	\$3	\$1	\$1	\$3	\$0	\$317	\$58	\$856	\$96	\$959
Commercial & Industrial Multifamily	\$548	\$6	\$0	\$3	\$10	\$4	\$5	\$0	\$0	\$0	\$2	\$2	\$2	\$0	\$4	\$4,866	\$417	\$47	\$1,381
Commercial & Industrial SUBTOTAL	\$15,308	\$181	\$0	\$82	\$166	\$112	\$138	\$8	\$4	\$3	\$3	\$3	\$5	\$0	\$469	\$11,998	\$12,809	\$1,411	\$14,169
Grand Total	\$29,750	\$313	\$112	\$347	\$808	\$477	\$586	\$41	\$94	\$92	\$212	\$179	\$138	\$0	\$662	\$33,636	\$22,321	\$2,514	\$42,420
Included in PIM? (Y/N)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	N	N	N
Percent Application in PIM	100%	100%	100%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	0%	0%	0%	0%
Category	Gas Utility System Benefits	Gas Utility System Benefits	Gas Utility System Benefits	Resource Benefits	Resource Benefits	Resource Benefits	Resource Benefits	Resource Benefits	Resource Benefits	Resource Benefits	Resource Benefits	Resource Benefits	Resource Benefits	Resource Benefits	Resource Benefits	NA	NA	NA	NA

Notes
From 2023 Benefit-Cost Model, reflects benefits in Table G-6.

Table G-8B - Compliance Filing
Rhode Island Energy
2023 Gas PIM Costs (\$000)

	(1)	(2)	(3)
	Costs (\$)		
	Eligible Spending Budget from Table G-3	Regulatory Costs	Total Costs for PIM Calculations
Non-Income Eligible Residential SUBTOTAL	\$16,145	\$91	\$16,236
Income Eligible Residential SUBTOTAL	\$8,644	\$91	\$8,736
Commercial & Industrial SUBTOTAL	\$9,085	\$91	\$9,177
Included in PIM? (Y/N)	Y	Y	Y

Notes

Source is Table G-2 and G-3. Regulatory costs allocated equally to each sector. OER and RIIB costs have been omitted from Regulatory Costs.

Table G-8C
Rhode Island Energy
2023 Gas PIM and SQA

Sector PI = min{ Payout Cap(i), [Actual Net Benefits* Design Payout Rate(g) * Payout Rate Adjustment(i)] }

Sector	Planned Eligible Benefits		Planned Eligible Costs	Planned Eligible Net Benefits (4)	Design Performance Achievement	Design Performance Payout	Design Payout Rate	Design Payout Rate Thresholds	Payout Rate Adjustments	Payout Cap	Service Quality Metric
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)
	100% Gas Utility System Benefits	50% Resource Benefits	Eligible Spending Budget + Regulatory Costs	=(a)+(b)-(c)	Net benefits at which design incentive pool is achieved	Set by PUC	=(f)/(e)	Achievement levels at which the Payout Rate Adjustments in (i) will be applied—Set by PUC	Factor to adjust Design Payout Rate for if final program achievement fall within the ranges in (h)—Set by PUC	=1.25*(f)	Yes if (d) ≤ 0; No if (d) >0
Non-income Eligible Residential	\$11,439,970	\$1,177,002	\$16,236,203	-\$3,619,231	\$2,000,000	\$500,000	25.0%	a. Achievement < 25% b. 25% ≤ Achievement < 50% c. 50% ≤ Achievement < 75% d. 75% ≤ Achievement • Spending > Planned Eligible Costs	a. 0.0 b. Achievement/100 + 0.1 c. Achievement/100 + 0.25 d. 0.0 • See Boundary Rules	\$625,000	Yes
Income Eligible Residential	\$3,246,250	\$143,577	\$8,735,561	-\$5,345,734	\$2,000,000	\$500,000	25.0%			\$625,000	Yes
Commercial & Industrial	\$15,489,323	\$496,890	\$9,176,769	\$6,809,445	\$6,809,445	\$796,811	11.7%			\$996,013	No

Sector SQA = Maximum Service Adjustment(e) * Service Achievement Scaling Factor(g)

	Planned Eligible Benefits		Planned Eligible Costs	Design Service Achievement	Maximum Service Adjustment	Service Adjustment Thresholds	Service Achievement Scaling Factors	Achievement Cost Adjustment
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
	100% Gas Utility System Benefits	50% Resource Benefits	Eligible Spending Budget + Regulatory Costs	=(a)+(b)	Maximum downward adjustment to earned incentive	Adjusted Achievement levels at which the Service Adjustments in (e) will be applied; adjustment is calculated in (h)	Factor to scale program achievement that fall within the ranges in (f)	Actual-cost-based adjustment factor applied to achievement. Result is if the difference between achievement and cost variances are greater than 5%, the Actual Achievement will be adjusted for use in
Non-Income Eligible Residential	\$11,439,970	\$1,177,002	\$16,236,203	\$12,616,972	\$333,102	a. Adjusted Achievement < 65% b. 65% ≤ Adjusted Achievement < 95% c. 95% ≤ Adjusted Achievement	a. 0 b. 0.95-Adjusted Achievement/30 c. 0	Performance Variance = "Actual Benefits" / "Design Achievement" - "Spending" / "Planned Eligible Cost" If the absolute value (Performance Variance) ≤ 0.05, Then Adjusted Achievement = Actual Achievement Else Adjusted Achievement = Actual Achievement * (1+ Performance Variance)
Income Eligible Residential	\$3,246,250	\$143,577	\$8,735,561	\$3,389,827	\$123,176			
Commercial & Industrial	\$15,489,323	\$496,890	\$9,176,769	\$15,986,213	\$0			

Table G-9
Rhode Island Energy
Revolving Loan Fund Projections

Large C&I Revolving Loan Fund

(1)	Total Loan Fund Deposits Through 2022	\$ 3,590,440
(2)	Current Loan Fund Balance	\$ 2,481,254
(3)	Projected Loans by Year End 2022	\$ 1,200,000
(4)	Projected Repayments by Year End 2022	\$ 311,389
(5)	Projected Year End Loan Fund Balance 2022	\$ 1,592,643
(6)	2023 Fund Injection	\$ -
(7)	Projected Loan Fund Balance, January 2023	\$ 1,592,643
(8)	Projected Repayments throughout 2023	\$ 309,469
(9)	Estimated Loans in 2023	\$ 1,200,000
(10)	Projected Year End Loan Fund Balance 2023	\$ 702,112

Notes

- 1 Funding injections since loan funds began. Net of any adjustments.
- 2 Current Loan Fund Balance is through May 2022
- 3 Projected Loans by Year End 2022 is estimated based on current commitments
Projected Repayments by Year End 2022 is estimated based on projected loans
- 4 by year end and repayment schedules
- 5 Equal to (2) - (3) + (4)
- 6 Fund Injection, as budgeted on G-2
- 7 Equal to (5) + (6)
- 8 Assumption based on average repayments over 12 months; repayments accumulate over time and may vary widely.

Table G-10
Rhode Island Energy
Rhode Island Gas Energy Efficiency 2003 - 2023
\$(000)

Gas	2007 ⁽⁴⁾	2008	2009	2010	2011 ⁽⁵⁾	2012	2013 ⁽⁶⁾	2014	2015	2016	2017	2018	2019	2020 ⁽⁷⁾	2021 ⁽⁸⁾	2022 ⁽⁹⁾	2023 ⁽¹⁰⁾
Energy Efficiency Budget (\$Million) ⁽¹⁾	-	\$7.3	\$7.6	\$4.8	\$7.3	\$13.7	\$19.5	\$23.5	\$24.5	\$27.7	\$29.7	\$28.1	\$31.6	\$34.3	\$35.0	\$36.9	\$36.9
Spending Budget (\$Million) ⁽²⁾	-	\$6.6	\$6.1	\$4.5	\$6.2	\$12.9	\$17.9	\$21.8	\$22.4	\$25.0	\$27.8	\$26.2	\$29.2	\$31.6	\$32.4	\$33.4	\$33.9
Actual Expenditures (\$Million) ⁽³⁾	-	\$7.4	\$6.3	\$5.5	\$4.9	\$13.3	\$19.6	\$21.5	\$21.5	\$24.6	\$29.1	\$28.8	\$29.5	\$24.6			
Incentive Percentage ⁽¹²⁾	-	4.4%	4.4%	4.4%	4.4%	4.4%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0% NA	NA	NA	NA
Target Incentive	-	\$288,734	\$266,980	\$199,743	\$274,460	\$570,382	\$898,285	\$1,089,700	\$1,119,800	\$1,251,654	\$1,387,550	\$1,309,076	\$1,460,570	\$1,578,601	\$1,700,000	\$1,000,000	\$796,811
Earned Incentive	-	\$288,734	\$262,121	\$231,310	\$239,863	\$586,036	\$968,229	\$1,362,108	\$1,387,079	\$1,496,869	\$1,633,531	\$1,541,255	\$1,580,119	\$347,732			
Annual MMBtu Energy Savings Goal Achieved (%)		109%	139%	127%	117%	99%	109%	124%	111%	106%	113%	120%	104%	71%			
System Benefits Charge (\$/therm) - all non-exempt customers ⁽¹¹⁾	\$0.0071	\$0.0107	\$0.0150	\$0.0150	\$0.0411	\$0.0384	\$0.0417	-	-	-	-	-	-	-	-	-	-
Residential System Benefits Charge (\$/therm)	-	-	-	-	-	-	\$0.0600	\$0.0781	\$0.0748	\$0.0888	\$0.0869	\$0.0715	\$0.1011	\$0.0871	\$0.1271	\$0.1188	\$0.1188
C&I System Benefits Charge (\$/therm)	-	-	-	-	-	-	\$0.0492	\$0.0637	\$0.0487	\$0.0726	\$0.0671	\$0.0420	\$0.0704	\$0.0596	\$0.0846	\$0.0626	\$0.0626
Annual Cost to 846 Therm/year Residential Customer w/o tax ⁽⁹⁾	\$6.04	\$9.05	\$12.69	\$12.69	\$18.28	\$32.49	\$35.28	\$50.76	\$66.07	\$63.28	\$75.12	\$73.52	\$60.49	\$85.53	\$73.69	\$107.53	\$100.50
Annual Cost to 846 Therm/year Residential Customer w/tax ⁽¹⁰⁾	\$6.23	\$9.33	\$13.08	\$13.08	\$18.85	\$33.49	\$36.37	\$52.33	\$68.11	\$65.24	\$77.44	\$75.79	\$62.36	\$88.18	\$75.97	\$110.86	\$103.61

Notes:

- (1) Energy Efficiency Budget includes total expenditures and commitments. Includes all demand side management program-related expenses, including rebates, administration and general expenses, evaluation, commitments for future years and Company incentive.
- (2) Prior to 2017, Spending Budget Eligible for Shareholder Incentive includes: Implementation, Administration, General, and Evaluation Expenses; excludes EERMC and OER Costs, Commitments, Copays, and Outside Finance Costs. Beginning in 2017, Outside Finance Costs were also included. Beginning in 2018 Pilot expenses were also excluded. Beginning in 2019 ConnectedSolutions expenses and assessment were also excluded.
- (3) Actual Expenditures is actual spend during calendar year. Includes expenditures and commitments. Includes all demand side management program-related expenses, including rebates, administration and general expenses, evaluation, commitments for future years and Company incentive.
- (4) Gas programs began during July 2007 and were not reported on separately that year since programs were still in development. The 2007 gas programs are included in 2008 reporting. Systems Benefit Charge shown for 2007 is the weighted average of \$0.063 per decatherm from January 1, 2007 - June 30, 2007 and \$0.107 per decatherm from July 1, 2007 through December 31, 2008.
- (5) On July 25, 2011 the Commission ordered that National Grid could increase the gas System Benefits Charge from \$0.15 to \$0.411 per decatherm for the period of August 1, 2011 through December 31, 2011. Annual cost represents 7 months usage (632 therms) at \$0.015 per therm and 5 months usage (214 therms) at \$0.0411 per therm.
- (6) In the Company's gas and electric rate cases in docket 4323, the PUC approved the uncollectibles gross-up in the electric EE Program Charge effective February 1, 2013, and a new rate applicable to the gross-up of the gas EE Program Charge, effective February 1, 2013.
- (7) 2021 values are planned.
- (8) 2022 values are proposed.
- (9) Reflects the annual cost excluding Gross Earnings Tax.
- (10) Reflects the annual cost including Gross Earnings Tax.
- (11) The Gas EE Program Charge was uniform for all customers until 2014, at which time the Company proposed and the PUC approved individual factors for the residential and C&I sectors.
- (12) Incentive percentage not applicable for 2022 due to new performance incentive mechanism developed for the 2022 Annual Plan. See Section 11 of the Main Text of the 2022 Annual Plan for additional details.

The Narragansett Electric Company
d/b/a Rhode Island Energy
RIPUC Docket No. 22-33-EE
In Re: 2023 Annual Energy Efficiency Plan
Responses to the Commission's Sixth of Data Requests
Issued on December 2, 2022

PUC 6-2

Request:

Please provide a copy of the 2022 3rd Quarter EE Report.

Response:

Please see Attachment PUC 6-2.



Rhode Island Energy™
a PPL company

Rhode Island Energy Efficiency

Third Quarter 2022 | Rhode Island Energy

November 14, 2022

Overview

Rhode Island Energy's energy efficiency programs continued to deliver energy savings for Rhode Island customers by achieving 367,266 net lifetime MWh of electric savings (44.0% of the net lifetime goal) and 1,874,849 net lifetime MMBtu of natural gas savings (46.2% of the net lifetime goal) while continuing to address the challenges faced due to the supply chain issues and elevated levels of inflation.

- **Residential Consumer Products:** With Rhode Island Energy leading the dehumidifier turn-in campaigns, the Company has exceeded YTD in 2022 the number of dehumidifiers recycled in all of 2021. During the dehumidifier events customers are also educated about \$30 incentive for the purchase of a new Energy Star dehumidifier as well as a wide variety of other energy efficiency products and HVAC equipment.
- **Income Eligible Services (IES):** Feedback from the CAP agencies is that although there is still a backlog on appliances, communication with the appliance scheduler has improved. The Lead Vendor has also been working with customers, CAPs and the appliance scheduler to see whether the customer is interested in receiving different appliance models than the requested model if they have been waiting for more than six months.
- **Large Commercial Retrofit:** Rhode Island Energy renewed its SEMP agreements with two universities during Q3, extending each of the agreements for an additional three-year period. The Company also signed a new SEMP with a customer that operates hospitals and other healthcare facilities throughout Rhode Island. This customer had participated previously and signed the new agreement after a gap of several years.

2022 Program & Initiative Updates – Q2

Residential New Construction (RNC)

The Residential New Construction (RNC) program achieved 2,493 net lifetime MWh of electric savings (16.7% of the lifetime goal) and 16,802 net lifetime MMBtu of gas savings (25.9% of the lifetime goal) through the third quarter of 2022.

Q3 RNC Program Enrollments and Completed Units

- 50 housing units were built to RNC Program standards
 - 44 units were new construction/full gut rehab (88%)
 - 6 were renovation/rehab (12%)
 - 48 units were market rate (96%)
 - 2 were income eligible (4%)
 - 13 units had gas heat (26%)
 - 13 units had all electric heat (heat pumps) (26%)
 - 19 units had hybrid electric/propane heat pumps (38%)
 - 970 LEDs were installed through the Program
 - 7 homes were Energy Star and DOE Zero Energy Ready Certified
 - 6 homes were Passive House Certified
- 65 newly planned housing units enrolled in the RNC Program

Q3 RNC Program Challenges

- Construction Schedule Delays
 - While much of the EE industry was disrupted instantly by COVID-19, the effects are only now being seen in new construction
 - Construction that had broken ground and was already underway by early 2020 continued through to completion in 2020 and 2021, which enabled the RNC Program to achieve goals during these years
 - However, projects in planning, design, and groundbreaking phases in 2020 and 2021 have gotten off to late starts due to issues with permitting, labor, material shortages, delayed funding, etc.
 - These delays have resulted in fewer completed units than anticipated in 2022
 - Most RNC Program projects originally slated to complete in 2022 have shifted towards completing in late 2022 and into 2023

- The RNC Program has continued to enroll new projects currently in planning and design phases into the program (477 units YTD), so the pipeline of projects is strong going into 2023
- The RNC Program Vendor and Trade Allies continue to perform inspections during the construction of these projects, and to provide training and technical support

Q3 RNC Program Highlights

- Rhode Island EC4 [Climate Buildings Workshop](#) Presentation
 - RI OER invited Jon Erickson from the RNC Program Vendor to present on Zero Energy Homes at a public workshop on August 24th
 - The virtual workshop covered how buildings contribute to climate change and how they must be made more resilient due to changes and increased frequency of extreme weather
 - Additional panelists included representatives from OER and Dr. Joseph da Silva, Coordinator, RI School Building Authority
 - Jon shared the successes of Sheridan Small Homes, a zero-energy affordable housing project in Providence that recently participated in RI Energy's RNC Program

Q3 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 6 seeking DOE Zero Energy Ready certification
- Zero Energy Homes Certification
 - The RNC Program Vendor certified seven Energy Star and DOE Zero Energy Ready Homes in Q3, six of which also achieved Passive House
- RNC Program Zero Energy Homes Case Study
 - 1492 Westminster Street, Providence, successfully met RNC Program requirements during Q3 and was certified for Energy Star, DOE Zero Energy Ready and Passive House



Above: Final Exterior



Above: Final Interior

1492 Westminster Street is the first mixed-use, multifamily building in Rhode Island built to the exacting Passive House standards administered by the Passive House Institute US (PHIUS). The PHIUS standards are widely regarded as the most stringent energy efficiency standards in the world.

Located on a narrow, vacant, urban infill site, 1492 Westminster offers a ground floor commercial space and seven one-bedroom apartment units, including an accessible unit on the ground floor. The vibrant commercial space supports the neighborhood and connects to street life with generous window openings (open in good weather) and a comfortable table seating area on the sidewalk. As part of the Armory Historic District, 1492 Westminster references common features of neighboring historic buildings – parapets, variation in materials, window composition, and bays – while remaining a contemporary building. The site design pushes parking to the middle of the block, away from the street while the stormwater system keeps all stormwater on site.

This building has a super-insulated envelope, airtight construction, high-performance windows, efficient systems, and smart design. The building achieves an expected Energy Use Intensity (EUI) of only 16.7 kBtu/ft²yr. This represents a nearly 75% reduction in operational energy use relative to the national average EUI for multifamily housing. With the rooftop solar photovoltaic system, the expected EUI will drop to 5 kBtu/ft²yr.

The building relies on proven high-performance assemblies throughout. The foundation is an insulated slab-on-grade with insulated frost walls. Exterior walls are “double stud” walls with a 12” deep cavity for insulation, in this case, a mix of closed and open cell spray foam with a low greenhouse gas emission (GHG) HFO blowing agent. Floors and roofs are constructed with prefabricated open web wood trusses and the roof/ceiling cavity is also insulated with a mix of low emissions closed and open cell spray foam. The robust air barrier is created by taped and caulked plywood sheathing and rigorous quality control. Each unit includes an individual heat-pump hot water tank, air-to-air mini-split heat pump, and an energy recovery ventilation unit for fresh air.

1492 Westminster embodies the COTE Framework for Design Excellence addressing Design for Energy, along with Design for Equitable Communities, Water, Economy, Well-being, and Resources. In doing, the project clearly demonstrates how architecture can directly address the urban housing shortage while also advancing critical climate goals.



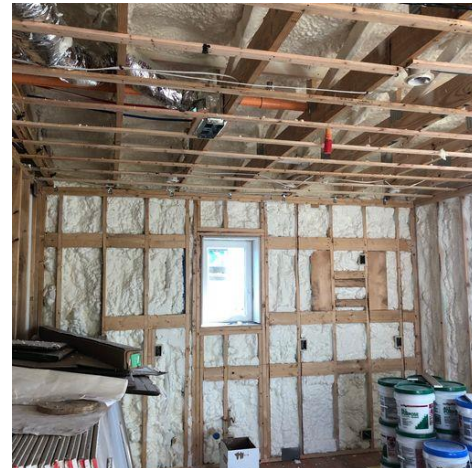
Left: Blower Door Testing



Right: Exterior Under Construction



Left: Foundation



Right: Interior Insulation

Photography: Courtesy of Jason Wessel

Project Architect: [Truthbox](#)

Income Eligible Services (IES)

The Rhode Island Energy Income Eligible Services program achieved 8,145 net lifetime MWh of electric savings (21.2% of the lifetime goal) and 85,428 net lifetime MMBtu of gas savings (39.0% of the lifetime goal) through the third quarter of 2022.

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

Feedback from the CAP agencies is that although there is still a backlog on appliances, communication with the appliance scheduler has improved. The Lead Vendor has also been working with customers, CAPs and the appliance scheduler to see whether the customer is interested in receiving different appliance models than the requested model if they have been waiting for more than six months.

Challenges and Responses

Providing services equitably to all Rhode Island Income Eligible Customer continues to be a challenge.

Supply shortages are decreasing, enhancing implementation, particularly for appliances. The emergency appliance replacement program for customers whose refrigerator is no longer functioning has reduced the wait time for customers without a needed appliance. The system also improves tracking and reporting of all emergency responses.

Staffing at some CAPs continues to be a challenge to IES Program implementation. IES is implementing several approaches to reducing the impact of these barriers:

- Contracting for additional auditors providing freelance audit services to the agencies. In Q3 we had an experienced team start working with CAP of Providence to provide Audit services.
- The Interagency Referral program where leads or completed audits are referred by one CAP agency to another CAP agency for implementation services.
- RIBA Auditor & Installer program, RWCP (Residential Construction Weatherization Program) is building a class for spring of 2023.

Customer Highlight

(dated 10/25/2022)

David,

It's here, it's beautiful!!!!

It's big! The doors stay closed! The shelves don't fall off when I open it! And it has a light!! It's not screaming like it's in agony!

And the crew is awesome! Mike and Trevor were here before and I absolutely love them!

Gentlemen, so exceedingly nice!

I cannot thank you enough, David!

Hopefully we can talk later on so I can thank you.

I've never had a new anything until this program.

Thank you again,

Pat

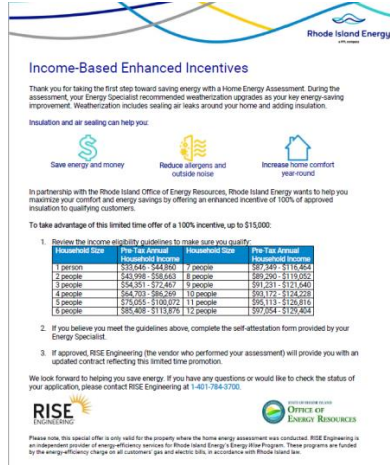
EnergyWise Single Family

The EnergyWise Single Family program achieved 9,233 net lifetime MWh of electric savings (68.5% of the lifetime goal) and 396,134 net lifetime MMBtu of gas savings (82.8% of the lifetime goal) through the third quarter of 2022.

The EnergyWise program conducted 2,758 home energy assessments and completed 1,237 weatherization projects in the third quarter. 113 customers financed their weatherization work with the HEAT loan. The RGGI Moderate Income offering is actively being promoted, and the program has served 41 RGGI moderate income customers.

Activities of interest include:

- Updated weatherization pricing went into effect in August
- Energy specialists enrolled in sales training in Q2 and have participated in monthly sales trainings throughout Q3. These trainings are scheduled through June 2023
- The company and the lead vendor attended the following events: RI Navy Salute to Summer 8/27, Back to School Celebration of RI backpack event 8/27, East Providence Touch a Truck 9/24
- Deployed the strategy plan for HP concierge initiative; started outreach to customers and scheduled site visits with interested customers in Q3
- Through Q3, 15% of assessments and 12% of weatherization participants are renters/landlords.
- Spanish and English outreach for the moderate-income weatherization offering continues using RGGI moderate income funding



Income-Based Enhanced Incentives

Thank you for taking the first step toward saving energy with a Home Energy Assessment. During the assessment, your Energy Specialist recommended weatherization upgrades to your key energy-saving improvement. Weatherization includes sealing air leaks around your home and adding insulation. Insulation and air sealing can help you:

- Save energy and money
- Reduce allergens and outside noise
- Increase home comfort year-round

In partnership with the Rhode Island Office of Energy Resources, Rhode Island Energy wants to help you maximize your comfort and energy savings by offering an enhanced incentive of 100% of compliance to qualifying customers.

To take advantage of this limited time offer of a 100% incentive, up to \$15,000:

- Review the income eligibility guidelines to make sure you qualify:

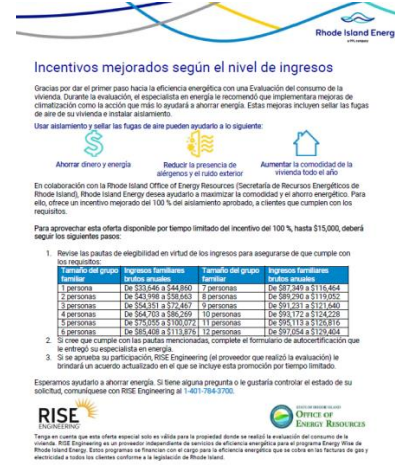
Household Size	Pre-Tax Annual Household Income	Household Size	Pre-Tax Annual Household Income
1 person	\$15,045 - \$44,890	7 people	\$69,549 - \$116,404
2 people	\$18,798 - \$58,616	8 people	\$85,292 - \$139,051
3 people	\$24,251 - \$77,450	9 people	\$101,231 - \$173,040
4 people	\$34,703 - \$98,270	10 people	\$117,172 - \$204,038
5 people	\$47,625 - \$130,071	11 people	\$133,113 - \$256,819
6 people	\$65,468 - \$173,875	12 people	\$157,054 - \$319,404

- If you believe you meet the guidelines above, complete the self-attestation form provided by your Energy Specialist.
- If approved, RISE Engineering (the vendor who performed your assessment) will provide you with an updated contract reflecting this limited time promotion.

We look forward to helping you save energy. If you have any questions or would like to check the status of your application, please contact RISE Engineering at 1-401-784-3700.

RISE ENGINEERING | **OFFICE OF ENERGY RESOURCES**

Please note, this special offer is only valid for the property where the home energy assessment was conducted. RISE Engineering is an independent provider of energy efficiency services for Rhode Island Energy's Energy Smart Program. These programs are funded by the energy efficiency charges on all customers' gas and electric bills, in accordance with Rhode Island law.



Incentivos mejorados según el nivel de ingresos

Gracias por dar el primer paso hacia la eficiencia energética con una Evaluación del consumo de la vivienda. Durante la evaluación, el especialista en energía le recomendó que implementara mejoras de climatización como la acción que más lo ayudará a ahorrar energía. Estas mejoras incluyen sellar las fugas de aire de su vivienda e instalar aislamiento.

Usar aislamiento y sellar las fugas de aire pueden ayudarlo a lo siguiente:

- Ahorrar dinero y energía
- Reducir la presencia de alérgenos y el ruido exterior
- Aumentar la comodidad de la vivienda todo el año

En colaboración con el Rhode Island Office of Energy Resources (Secretaría de Recursos Energéticos de Rhode Island), Rhode Island Energy desea ayudarle a maximizar la comodidad y el ahorro energético. Para ello, ofrece un incentivo mejorado del 100 % del aislamiento aprobado, a clientes que cumplen con los requisitos.

Para aprovechar esta oferta disponible por tiempo limitado del incentivo del 100 %, hasta \$15,000, deberá seguir las siguientes pautas:

- Revise las pautas de elegibilidad en virtud de los ingresos para asegurarse de que cumple con los requisitos:

Tamaño del grupo familiar	Ingresos familiares brutos anuales	Tamaño del grupo familiar	Ingresos familiares brutos anuales
1 persona	De \$15,045 a \$44,890	7 personas	De \$69,549 a \$116,404
2 personas	De \$18,798 a \$58,616	8 personas	De \$85,292 a \$139,051
3 personas	De \$24,251 a \$77,450	9 personas	De \$101,231 a \$173,040
4 personas	De \$34,703 a \$98,270	10 personas	De \$117,172 a \$204,038
5 personas	De \$47,625 a \$130,071	11 personas	De \$133,113 a \$256,819
6 personas	De \$65,468 a \$173,875	12 personas	De \$157,054 a \$319,404

- Si cree que cumple con las pautas mencionadas, complete el formulario de autoafirmación que le entregó su especialista en energía.
- Si se aprueba su participación, RISE Engineering (el proveedor que realizó la evaluación) le brindará un acuerdo actualizado en el que se incluye esta promoción por tiempo limitado.

Esperamos ayudarlo a ahorrar energía. Si tiene alguna pregunta o le gustaría controlar el estado de su solicitud, comuníquese con RISE Engineering al 1-401-784-3700.

RISE ENGINEERING | **OFFICE OF ENERGY RESOURCES**

Nota: Este oferta por tiempo limitado solo es válida para la propiedad donde se realizó la evaluación del consumo de la vivienda. RISE Engineering es un proveedor independiente de servicios de eficiencia energética para el programa Energy Wise de Rhode Island Energy. Estos programas se financian con el cargo por la eficiencia energética que se cobra en las facturas de gas y electricidad a todos los clientes conforme a la legislación de Rhode Island.

Challenges and Responses

Pricing on materials and labor continue to increase. Independent insulation contractors have expressed a need to revisit pricing due to upward pressure on materials and more favorable pricing in Massachusetts. The program has leveraged the outcome of a recent pricing RFP for weatherization that was issued in MA to inform regional pricing. Updated pricing for the program went into effect in August.

Customer Highlights

Customer feedback themes from the HEA included:

- Several customers were disappointed the program did not include window and door replacement
- Many customers complimented the auditor who conducted their HEA

Customer feedback themes from weatherization contractors included:

- Many customers expressed appreciation of the representatives that they worked with from RISE Engineering and the weatherization contractors, stating that the representatives they worked with were helpful and informative, scheduling was easy, contractors were efficient and professional
- A few customers stated that they noticed the improved comfort and temperature retention in their home right away

Contractor Demographic Update

Of the 37 independent insulation contractor companies providing weatherization services to this program, 9 are women or minority owned businesses.

EnergyWise Multifamily, Income Eligible Multifamily, C&I Multifamily

The EnergyWise Multifamily program achieved 1,262 net lifetime MWh of electric savings (6.1% of the lifetime goal) and 23,018 net lifetime MMBtu of gas savings (15.7% of the lifetime goal) through the third quarter of 2022. The Income Eligible Multifamily program achieved 846 net lifetime MWh of electric savings (3.5% of the lifetime goal) and 79,315 net lifetime MMBtu of gas savings (29.0% of lifetime goal) through the third quarter of 2022. The C&I Multifamily program achieved 21,962 net lifetime MMBtu of gas savings (16.7% of the lifetime goal) through the third quarter of 2022.

Customer Highlights

Income Eligible Project- Affordable housing apartments in Riverside, RI

There was a replacement of three existing 300 MBH heat boilers to two 600 MBH high efficiency condensing boils. The existing DHW and heating circulator pumps were also replaced with new high efficiency circulator pumps. Also included in this project was complete relamp and rebalast of common area strip fixtures. The electric incentive for this installation was \$23,512 and has an estimated 282,360 net lifetime kWh savings. The gas portion of the project was \$234,605 and has an estimated net lifetime Therms savings of 367,262.

Standard Income Project in Providence, RI

There was a replacement of 110 in-unit non-programmable thermostats with digital programmable thermostats as well as exterior and interior common area lighting. The commercial gas incentive for this installation was \$20,680 and has an estimated net lifetime Therms savings of 23,178. The electric portion of the project was \$48,245 and has an estimated net lifetime kWh savings of 54,540.

Challenges and Responses

Material lead times continue to cause significant project delays for heating and cooling retrofits. The lead time for most equipment is 8-12 weeks out from the initial order.

The Lead Vendor continues to follow up with customers and contractors regularly to keep projects moving forward and they are completing all other aspects of a project while awaiting necessary materials.

Workforce Development

In Q3 the Lead Vendor's mechanical team completed Lochinvar boiler factory training. The training included new product lines and boiler controls.

ENERGYSTAR® HVAC (Heating and Cooling)

The ENERGYSTAR® HVAC (Heating and Cooling) program achieved 75,627 net lifetime MWh of electric savings (97.3% of the lifetime annual goal) and 199,449 net lifetime MMBtu of gas savings (45.4% of the lifetime goal) during the third quarter of 2022.

Q3 HVAC Contractor Trainings

- Eight half-day and quarter-day contractor trainings were held during the third quarter, providing both refresher courses and new trainings for HVAC technicians
- The HVAC Program offers several types of HVAC Check trainings
 - HVAC Check, which includes both AC Check and MS Check
 - MS Check, specifically for contractors who only install mini splits
 - AC Check & MS Check as separate modules, to make it easier for contractors to fit training into their schedules
- Trainings were modified for and delivered to sales staff and distributors
- The Program offered on site training for several participating HVAC companies
- Contractor feedback:
 - “Over the past several years we have attended HVAC Check training sessions hosted by the folks at CLEAResult. The training is always thorough and taught in a way that everyone comes out with a better understanding of how to properly assess system performance. We are specifically happy with the Mini Split Check training program since our primary line of work is mini split heat pump systems. The MS Check trainings have been especially helpful in getting our technicians up to speed with mini split heat pump system charging techniques. The training team has always been very responsive to any questions we may have and work hard to find answers for us when needed.” – HVAC Program Participating Contractor

Q3 HVAC Check Testing

- Contractors perform HVAC Check testing on heat pumps during warm weather
- The HVAC Program team actively reached out to HVAC contractors during the third quarter to encourage them to perform this testing on both new systems

and existing systems during preventative maintenance visits to ensure proper operation

- 288 HVAC Check tests were performed by HVAC contractors during the third quarter

Q3 HVAC Enhanced Rebate Quality Control Inspections

- 44 Quality Control (QC) inspections were performed on recently installed heat pumps
- 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 operation

Q3 HVAC Program Participating Contractors

- Rhode Island Energy provides customers with a list of Program Participating Contractors
- To be listed (and stay listed) contractors must attend a Program Training, and perform a minimum number of HVAC Check tests each year
- Only Participating Contractors can offer Enhanced Rebates
- During the third quarter the HVAC Program team followed up with both new and existing contractors to offer training and technical support, and to ensure they met and continue to meet the requirements for being listed
- There are currently 75 HVAC Program-approved contractors on the list

Q3 Weekly HVAC Contractor Newsletter

- The team 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 third quarter included reminders for HVAC vendor staff, MS/AC Check testing tips, rebate submission requirements, reminders and deadlines and links to upcoming HVAC Check trainings
- The newsletter also contained information and links to programs such as EnergyWise and the HEAT Loan
- There are 650+ recipients on the distribution list

**Rhode Island HVAC Report
Weekly Update
September 27, 2022**

Rhode Island Energy™
a PPL company

RI Heating & Cooling Program: Updated Listing to be Posted

- Only trained, active, participating contractors can offer the Enhanced rebates.
 - MUST submit at least **3 passing tests** to remain eligible to offer the Enhanced rebates and appear on the Published List!
 - Get tests submitted to be listed on the next update.
- Need On-Site Tech Support? Let us know at HVAC@CLEARresult.com in advance
- OR have techs call 508-365-3262, 8AM-5PM, for live tech support

Q3 High Efficiency Gas Program Support

- The HVAC Program team continued to promote Rhode Island Energy’s high efficiency gas rebates to distributors, gas equipment factory representatives and contractors through the weekly newsletter and through direct contact (email, phone)

Q3 High Efficiency Equipment Marketing Efforts

- High efficiency electric and natural gas hot water solutions
 - Rhode Island Energy promoted the availability of incentives for electric heat pump water heaters, gas combination boiler water heaters and gas water heaters to existing customers
- High efficiency electric heating and cooling
 - Rhode Island Energy promoted the availability of incentives for central heat pumps, mini-split heat pumps and central air conditioning

Stay cool in the summer and save energy all year long.

Not only will a heat pump cool your home during the summer months, but this innovative, all-in-one technology is also designed to stand up to even the coldest Northeast winters. Heat pumps are also very energy-efficient compared to traditional electric, oil and propane heating equipment. That means you'll be saving energy—and the environment.

Whether you are looking to supplement or replace your existing HVAC system, there are several options. See which heat pump is right for you:

- Central Heat Pumps**
Maximize efficiency and comfort with this whole-home system that can be retrofitted into existing duct work.
Get \$1,550 rebate*
- Mini-Split Heat Pumps**
An ideal solution for heating and cooling specific rooms in your home, mini-split can be ducted or ductless.
Get \$450 or \$1,000 rebate*
- Central Air Conditioning**
If you're just looking for a cooling solution for your home, upgrade to a new energy-efficient central air conditioning system.
Get \$150 rebate*

Enjoy more energy savings — and more comfort.

Water heating is essential to our daily lives at home, but it's something most of us don't think about until our equipment breaks down. If your water heater is getting older, we are here to help with exclusive rebates on new high-efficiency electric and natural gas water-heating solutions.

- Electric Heat Pump Water Heaters**
Get up to \$600 rebate
- Gas Combination Boiler-Water Heaters**
Get up to \$1,200 rebate
- Gas Water Heaters**
Get up to \$200 rebate

Q3 HVAC Program Challenges

- Ongoing equipment supply issues continue to cause delays in the purchase and installation of equipment

Residential Consumer Products

The Residential Consumer Products program achieved 7,441 net lifetime MWh of electric savings (15.6% of the lifetime goal) through the third quarter of 2022.

With Rhode Island Energy leading the dehumidifier turn-in campaigns the Company has exceeded YTD in 2022 the number of dehumidifiers recycled in all of 2021. During the dehumidifier events customers are also educated about \$30 incentive for the purchase of a new Energy Star dehumidifier as well as a wide variety of other energy efficiency products and HVAC equipment.

Rhode Island Energy kicked off the Most Efficient Refrigerator and Clothes Washer appliance initiative with Home Depot in late Q2. The goal is to influence retailers to stock most efficient appliances at an attempt to drive consumer behavior. Home Depot stores across Rhode Island installed RI Energy marketing material promoting ME appliances resulting in 99 Most Efficient Refrigerators and 7 Most Efficient Clothes Washers sold through September.

Pool pump distributors are reporting brisk business in pool installations for the 2022 season. The Company's outreach vendor TRC has emphasized to installers that only ENERGY STAR® specification 3.0 variable speed pumps on the ENERGY STAR list at time of installation are eligible for the incentive programs. Submissions to the Rhode Island Energy variable speed (frequency) pool pump incentive program currently stand at 128 pumps submitted for incentive. The first submission was from Baystate Pool Supplies, a partner since the inception of the programs.

Q3 Residential Consumer Products Challenges

In conversations with big box retailers, they've reported product sales across the nation are down and believe consumer buying habits are the result of current economic challenges.

Home Energy Reports (HER)

The Home Energy Reports (HER) program achieved 23,639 net lifetime MWh of electric savings (88.0% of the lifetime annual goal) and 79,792 net lifetime MMBtu of gas savings (85.3% of the lifetime goal) through the third quarter of 2022.

In the third quarter, Home Energy Reports provided messaging on fridge recycling, the online marketplace, heat pumps, and gas heating equipment.

Let us recycle your old fridge

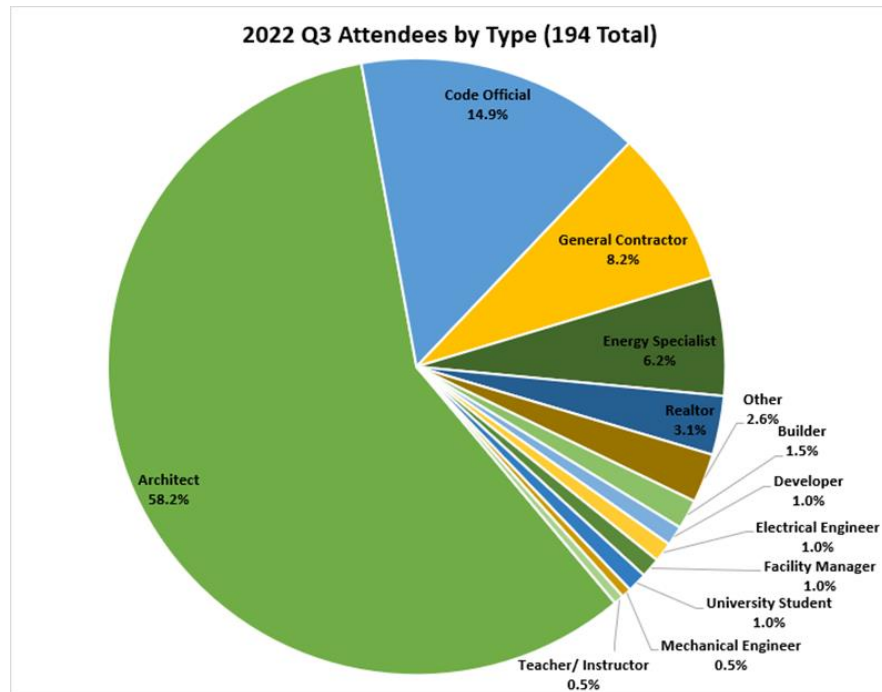


Have an old fridge you're not using much? We'll pick it up and recycle it at no cost. Plus, you'll get a \$50 rebate.

[Schedule a safe pickup](#)

Code Compliance Enhancement Initiative (CCEI)

The Company sponsored 12 CCEI training events that engaged 194 industry participants during this quarter. This included nine trainings focused on residential construction with 110 attendees and three commercial training with 84 attendees.

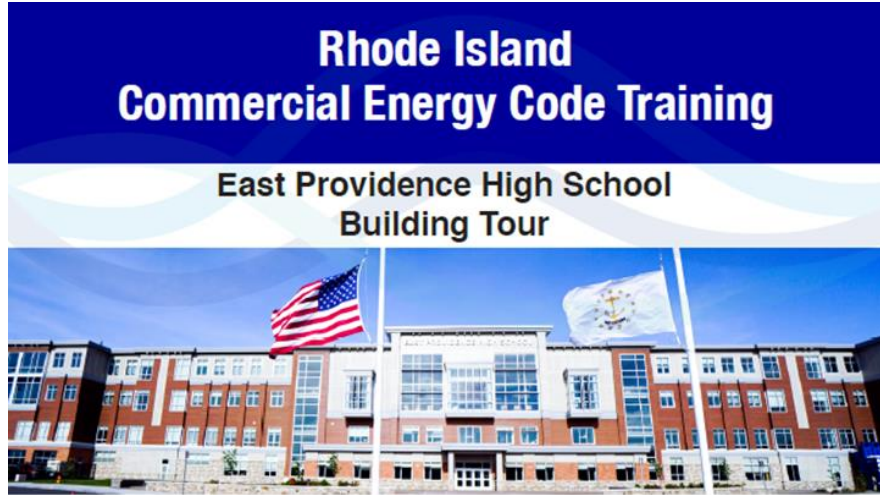


Q3 Training Participants – Attendees by Type

The Company and its vendor continued to partner with several organizations to sponsor and promote trainings in the third quarter. Organizations include Rhode Island Builders Association (RIBA), Rhode Island Building Officials Association (RIBOA), AIA-Rhode Island, Rhode Island Association of Realtors (RIAR), and Rhode Island Plumbing & Mechanical Inspectors Association (RIPMIA). Topics included:

- Weatherization, Insulation and Building Science
- Envelope and Building Science in the Energy Code
- Insulation and Wallboard
- Healthy Homes, Indoor Air Quality and Your Health
- Blower Door & Duct Leakage Testing (Hands-on)
- Home Comfort – Heating Cooling & Ventilation
- Advanced Building Science, Zero Energy Homes & the RI Stretch Code
- Green Building Fundamentals & Standards
- 2021 RI Residential Energy Code

- HVAC Design for Large Spaces with Low Energy Loads
- Introduction to Building Commissioning



Pictured above: East Providence High School Training & Tour

These trainings are approved for RI Contractor Registration and Licensing Board continuing education units. Since the onset of COVID-19, most trainings have been held virtually, which typically increases attendance. In-person trainings included:

- Evening pre-apprentice training course coordinated through the Residential Construction Workforce Partnership
- Plumbing & Mechanical Inspectors Association Education Meeting in East Providence
- Zero Energy Home Renovation in Providence

Challenges and Responses

The next Rhode Island Energy Conservation Code is expected to be based on IECC 2021. The Company anticipates the state's next Code will be adopted in 2023. The Residential portion of the Energy Conservation code is expected to be substantially more stringent than current code. Although this will save energy over the long term, the Company's vendor raised concerns that many builders, architects, and building code officials are not familiar with design techniques necessary to meet IECC 2021, and there will be a steep learning curve. In the near term, this may lead to design and construction errors that result in issues related to durability and indoor air quality. To help mitigate this risk, the Company and its vendor are collaborating with the Rhode Island Building Code Commission to train as many Rhode Island builders, architects, and code officials as possible on building techniques to meet the new code requirements.

The Company is also involved in development of a stretch code through its work on the Rhode Island Green Building Commission.

Large Commercial New Construction

The Large Commercial New Construction program achieved 47,747 net lifetime MWh of electric savings (24.8% of goal) and 276,165 net lifetime MMBtu of gas savings (35.0% of goal) through the third quarter of 2022.

There are 36 active projects in Q3. A Zero Net Energy (ZNE) non-profit project under the Path 1 ZNE program has qualified for the Path 1 ZNE program.

The New Construction program team is working with a university on a new arena and dining hall on the campus. In addition, the team has engaged a new 60,000 science building at a college that will go through Path 2. In Q3, program staff identified a new state health laboratory in the \$165 million Jewelry District building. A meeting with the State and design team will be held in the future.

Challenges and Responses

The recent energy code changes, adopted February 1, 2022, have reduced potential savings eligible within the New Construction Program. The New Construction team continues to research ways to maintain program savings as the energy code becomes more stringent.

Lighting and gas measures were particularly hard hit, and even HVAC controls measures (such as demand controlled ventilation) are now considered baseline. The Company is updating savings calculations to account for these baseline changes.

Although these changes align with the goals of the energy efficiency programs (helping customers use less energy), it means less claimable program savings. The New Construction program team continues to research ways to maintain program savings as the energy code becomes more stringent.

The slowdown of project design and construction seen in Q2 is starting to improve in Q3 as owners adjust to the new pricing and energy code.

Large Commercial Retrofit

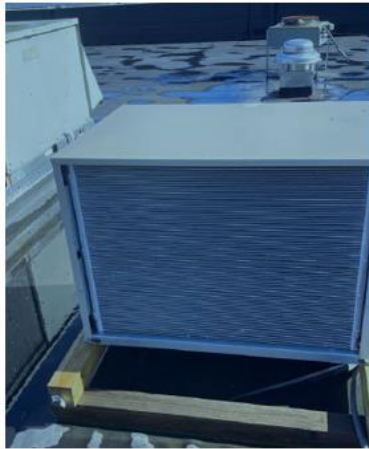
The Large Commercial Retrofit program achieved 150,098 net lifetime MWh of electric savings (48.0% of goal) and 644,585 net lifetime MMBtu of gas savings (48.4% of goal) through the third quarter of 2022.

Industrial Initiative

The Company's Industrial Initiative vendor identified an opportunity for a customer to eliminate simultaneous heating and cooling. The space previously had separate controllers for air conditioning and heating systems. The customer integrated the HVAC system into the building management system, preventing heating while the space is being cooled. This is expected to result in 21,800 kWh per year of savings at very little cost to the customer.

EnergySmart Grocer Initiative

A national grocery store chain began pursuing energy efficiency improvements across its portfolio of Rhode Island stores under the Equipment Systems Performance Optimization (ESPO) initiative in mid-2021. In Q3 2022, a convenience store chain performed coil cleaning on their rooftop condensers and HVAC units at 12 of its locations in Rhode Island, resulting in an energy savings of nearly 10,000 kWh of annual savings at very little cost to the customer.



In addition, one grocery store chain worked installed anti-sweat heating controls at seven locations in Rhode Island, which resulted in nearly 1 million kWh of annual savings.



Strategic Energy Management Partnership (SEMP)

Rhode Island Energy renewed its SEMPs with two universities during Q3, extending each of the agreements for an additional three-year period. The Company also signed a new SEMP with a customer that operates hospitals and other healthcare facilities throughout Rhode Island. This customer had participated previously and signed the new agreement after a gap of several years.

Building Analytics

The Building Analytics Program (BAP) will offer incentives to cover set-up costs associated with these systems provided by prequalified qualified service providers (QSPs). In Q3, Rhode Island Energy and its implementation vendor selected several QSP's through a request for

qualifications (RFQ) to offer software solutions and associated services. The Company expects to onboard QSPs and launch this new initiative in Q4.

Challenges and Responses

The Company continued to observe significant delays in project timelines resulting from supply chain delays. To help mitigate these delays, the Company worked with its vendors to help customers, contractors, and distributors identify alternative equipment with shorter lead times.

In Q3, the company’s line of sight to supply chain issues improved, although the issues persist. Material delays have lengthened project timelines, shifting much of the project pipeline into Q4, specifically for lighting projects.

The availability of qualified refrigeration contractors is a persistent issue. This constraint is less severe in the cooler months, and thus it is a good time for them to work on energy efficiency projects. Nevertheless, this is a significant labor issue, and there is no immediate resolution in sight to attract and train additional refrigeration contractors.

Small Business Direct Install

The Small Business Direct Install (SBDI) program achieved 40,735 net lifetime MWh of electric savings (63.3% of goal) and 52,200 lifetime MMBtu of gas savings (56.9% of goal) through the third quarter of 2022.

Enhanced reporting

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

There have been 75 gas weatherization projects in the first three quarters of 2022, leveraging RGGI funds 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, and the first three quarters of 2022.

Period	Luminaires	Luminaires with controls	Retrofit kits	Retrofit kits with controls
2020	13,032	149	17,260	450
2021	12,804	246	15,932	908
Q1-Q3 2022	8,199	1,216	6,556	731

Projects highlights

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

East Providence: The SBDI vendor participated in planning meetings with RI Energy and East Providence Chamber of Commerce management on opportunities to offer/market program services in conjunction with other RI Energy initiatives in targeted neighborhoods in East Providence. It is expected that the effort will be underway no later than 2023.

Providence: The SBDI vendor participated in preliminary discussions with the City of Providence on its plans for an energy efficiency and electrification initiative leveraging federal funds from the American Rescue Plan Act of 2021 (ARPA). The concept of using this funding to supplement RI Energy’s offerings was explored, including the RGGI weatherization initiative which can be an important resource to make building envelope improvements possible. A sample audit of a facility was conducted and prepared. It is expected that those discussions will continue.

Marketing collateral was maintained for all three of these efforts along with dedicated web pages in English and Spanish to ensure comprehension. Additionally, the Company's vendor has a Spanish-speaking employee on hand for any translation needs.

Challenges and Responses

The period was marked by limited demand for program services. While weatherization promotions during summer months typically only yielded limited results, this period showed very weak uptake.

To help re-energize demand for the program, two direct mail pieces were distributed in late September/early October to approximately 10,000 RI Energy small business customers, spaced about two weeks apart. It is hoped that these pieces, coupled with a seasonal uptick and complementary RI Energy outreach, will help restore demand to healthy levels.

In addition, during the period RISE worked with entities in three urban communities on the design of initiatives to stimulate activity, particularly in neighborhoods that would include a higher concentration of disadvantaged small businesses.

Evaluation, Measurement, and Verification

Four studies were completed in the third quarter of 2022.

The C&I Lighting Market Characterization Study was completed in September 2022 by DNV. The study calculated adjusted measure lives for non-residential custom and prescriptive lighting measures lives in RI. The results of this study were adopted into RI Energy's 2023 Plan.

The Impact Evaluation of PY2020 Custom Gas Installations was completed in August 2022 by DNV. The study updated realization rates for custom gas projects, as part of a rolling effort that incorporated results from PY2018, PY2019, and PY2020. The results of this study were adopted into RI Energy's 2023 Plan.

The Impact Evaluation of PY2020 Custom Electric Installations was completed in September 2022 by DNV. The study updated realization rates for custom electric projects, as part of a rolling effort that incorporated results from PY2018, PY2019, and PY2020. The results of this study were adopted into RI Energy's 2023 Plan.

The Cannabis Industry Standard Practice (ISP) Study was completed in August 2022 by DNV. The study identified industry standard practices for the medical market cannabis industry with a focus on horticultural lighting, lighting controls, cultivation area HVAC, HVAC controls, and dehumidification. The ISPs from the study were adopted to be used by implementors as the baselines for projects and by evaluators when evaluating projects.

ConnectedSolutions

For the Residential Thermostat program, 15 events were called in the 2022 season. There are currently 4,854 thermostat enrollments, with 366 pending enrollments.

For the Residential Battery program, 47 events were called in the 2022 season. There are currently 521 battery enrollments.

There are currently 536 C&I customers enrolled in the Commercial ConnectedSolutions program.

Pilots, Demonstrations, Assessments

PDA Name		Q3 2022 Updates
<u>New Air Sealing & Insulation - Demonstration - Resi</u>	Date	10/25/2022
	Stage	Retire demonstration
	Recent Activity	Study completed
	Next steps	n/a
<u>Solar Inverter DLC - Demonstration - Resi</u>	Date	7/18/2022
	Stage	Launch
	Recent Activity	Successfully demonstrated the technology.
	Next steps	Launch full-scale program in 2023.
<u>Final Gas Appliances - Assessment - Resi</u>	Date	10/21/2022
	Stage	Qualify
	Recent Activity	Continue assessing opportunities for electric appliances at new homes
	Next steps	Finalize assessment
<u>Gas HPs - Demonstration - Resi</u>	Date	7/8/2022
	Stage	Retire
	Recent Activity	Due to limited product interest and slow payback periods, this demonstration is ending.
	Next steps	Retire demonstration
<u>HVAC Lighting Controls Plus - Demonstration - C&I</u>	Date	10/21/2022
	Stage	Retire
	Recent Activity	Completed Demonstration. Concluded limited potential for NLC+HVAC approach.
	Next steps	Retire demonstration
<u>Building Flexibility through DR - Assessment - C&I</u>	Date	10/25/2022
	Stage	Develop or Demonstrate
	Recent Activity	Study with DNV ongoing
	Next steps	Finalize study and evaluate results
<u>Refrigeration Leak Survey & Repair - Demonstration - C&I</u>	Date	10/25/2022
	Stage	Develop or Demonstrate
	Recent Activity	Post-installation monitoring of refrigerant leakage is nearing completion. Analysis will be conducted in Q4.
	Next steps	Complete monitoring and analyze data and savings

<u>Gas DR - Pilot - C&I</u>	Date	10/25/2022
	Stage	Develop or Demonstrate
	Recent Activity	Enrolling new customers for this winter
	Next steps	Conduct pilot this winter season
<u>Gas HPs - Demonstration - C&I</u>	Date	7/8/2022
	Stage	Retire demonstration
	Recent Activity	Attempted customer recruitment with little success.
	Next steps	n/a
<u>Rightsizing RTUs - Assessment - C&I</u>	Date	10/21/2022
	Stage	Plan
	Recent Activity	Kicked off in Sept. Vendor began study.
	Next steps	Continue Assessment
<u>Automated RTU Optimization - Demonstration - C&I</u>	Date	10/25/2022
	Stage	Demonstrate
	Recent Activity	Recruiting customers; installing product and monitoring equipment
	Next steps	Continue recruitment and installation
<u>SEM/CEI - Demonstration - C&I</u>	Date	7/8/2022
	Stage	Retire demonstration
	Recent Activity	Closed out final CEI projects
	Next steps	n/a
<u>Air Curtains - Demonstration - C&I</u>	Date	11/9/2022
	Stage	Qualify
	Recent Activity	No recent demonstration activity, as next steps are to develop the existing documentation into a measure.
	Next steps	Modify previous development work to create RI-specific measure analysis; provide analysis to Evaluation for review.
<u>Smart Valves for Chilled Water Systems - Demonstration - C&I</u>	Date	10/25/2022
	Stage	Develop or Demonstrate
	Recent Activity	Monitoring of operating chillers is ongoing.
	Next steps	Finalize monitoring, analyze consumption and savings

RHODE ISLAND ENERGY ENERGY EFFICIENCY PROGRAMS IN RHODE ISLAND
Table 1: Summary of Electric 2022 Target and Preliminary 3rd 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	
Commercial and Industrial																				
Large Commercial New Construction	1,745	394	22.6%	12,589	3,190	25.3%	96	24	25.3%	\$ 9,034.1	\$ 2,222.1	24.6%	39.2%	192,343	47,747	24.8%	34.1%	\$ 0.047	\$ 0.047	
Large Commercial Retrofit	8,490	3,179	37.4%	41,132	19,947	48.5%	2,239	2,033	90.8%	\$ 25,010.5	\$ 7,224.6	28.9%	87.1%	312,931	150,098	48.0%	92.4%	\$ 0.080	\$ 0.048	
Small Business Direct Install	904	871	96.4%	9,976	5,010	50.2%	490	339	69.1%	\$ 8,883.3	\$ 3,877.5	43.6%	82.8%	64,394	40,735	63.3%	100.5%	\$ 0.138	\$ 0.095	
Commercial ConnectedSolutions										\$ 4,393.6	\$ 298.7	6.8%	110.7%							
Community Based Initiatives - C&I										\$ 85.0	\$ 3.9	4.6%	100.0%							
Financing										\$ 2,000.0	\$ -	0.0%	100.0%							
Commercial Workforce Development										\$ 157.5	\$ -	0.0%	100.0%							
SUBTOTAL	11,139	4,445	39.9%	63,696	28,147	44.2%	2,825	2,396	84.8%	\$ 49,564.1	\$ 13,626.8	27.5%	79.3%	569,668	238,580	41.9%	73.6%	\$ 0.087	\$ 0.057	
Income Eligible Residential																				
Single Family - Income Eligible Services	480	119	24.9%	3,314	785	23.7%	3,583	3,153	88.0%	\$ 13,275.3	\$ 6,063.9	45.7%	75.3%	38,506	8,145	21.2%	74.8%	\$ 0.345	\$ 0.744	
Income Eligible Multifamily	49	38	76.6%	1,538	287	18.7%	3,600	1,060	29.4%	\$ 3,538.9	\$ 173.8	4.9%	79.1%	24,309	846	3.5%	65.0%	\$ 0.146	\$ 0.205	
SUBTOTAL	529	157	29.7%	4,851	1,072	22.1%	7,183	4,213	58.7%	\$ 16,814.3	\$ 6,237.7	37.1%	76.1%	62,816	8,991	14.3%	71.0%	\$ 0.268	\$ 0.694	
Non-Income Eligible Residential																				
Residential New Construction	74	28	37.8%	867	130	15.0%	462	168	36.4%	\$ 1,617.0	\$ 792.9	49.0%	75.4%	14,947	2,493	16.7%	45.0%	\$ 0.108	\$ 0.318	
ENERGY STAR® HVAC	240	155	64.7%	4,620	4,294	93.0%	5,229	3,691	70.6%	\$ 4,684.4	\$ 2,707.6	57.8%	120.0%	77,717	75,627	97.3%	145.0%	\$ 0.060	\$ 0.036	
EnergyWise	424	338	79.7%	2,789	2,006	71.9%	12,000	8,394	70.0%	\$ 15,557.0	\$ 9,911.2	63.7%	100.4%	13,472	9,233	68.5%	100.0%	\$ 1.155	\$ 1.073	
EnergyWise Multifamily	143	52	36.5%	1,424	351	24.7%	3,600	1,882	52.3%	\$ 3,238.3	\$ 629.5	19.4%	60.0%	20,783	1,262	6.1%	45.0%	\$ 0.156	\$ 0.499	
Residential Consumer Products	1,118	242	21.6%	6,885	1,016	14.8%	34,692	2,426	7.0%	\$ 2,796.0	\$ 946.1	33.8%	70.0%	47,554	7,441	15.6%	50.0%	\$ 0.059	\$ 0.127	
Home Energy Reports	3,692	3,250	88.0%	26,852	23,639	88.0%	323,248	263,019	81.4%	\$ 2,639.1	\$ 1,634.9	61.9%	100.0%	26,852	23,639	88.0%	100.6%	\$ 0.098	\$ 0.069	
Residential ConnectedSolutions										\$ 1,822.6	\$ 808.3	44.3%	89.5%							
Energy Efficiency Education Programs										\$ -	\$ 39.6	0.0%	0.0%							
Community Based Initiatives - Residential										\$ 255.1	\$ 0.0	0.0%	49.0%							
Comprehensive Marketing - Residential										\$ 247.9	\$ 17.8	7.2%	60.5%							
SUBTOTAL	5,691	4,065	71.4%	43,435	31,436	72.4%	379,231	279,579	73.7%	\$ 32,857.4	\$ 17,487.9	53.2%	94.1%	201,325	119,695	59.5%	95.9%	\$ 0.163	\$ 0.146	
Regulatory																				
EERMC										\$ 766.2	\$ 218.6	28.5%	100.0%							
OER										\$ 1,541.7	\$ 1,196.0	77.6%	100.0%							
Rhode Island Infrastructure Bank										\$ 3,737.5	\$ -	0.0%	100.0%							
SUBTOTAL										\$ 6,045.4	\$ 1,414.5	23.4%	100.0%							
TOTAL	17,359	8,668	49.9%	111,983	60,655	54.2%	389,239	286,188	73.5%	\$ 105,281.1	\$ 38,767.1	36.8%	84.5%	833,808	367,266	44.0%	78.8%	\$ 0.126	\$ 0.106	
Municipal LED Street Lights										485.9	\$ 573.7	118.1%								

NOTES
(1)(4)(7) Targets from Docket 5189 - Attachment 5, Table E-7 (electric), Refiled January 27, 2022.
(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 5189, Attachment 5 Table E-3 (electric), Refiled January 27, 2022.
(11) Year To Date Expenses include Implementation expenses.
(12) Pct Achieved is Column (11)/ Column (10).
(17) \$/lifetime kWh = Column (11)/Column (14)
(16) Planned \$/lifetime MWh from Docket 5189 - Attachment 5, Table E-5 (electric), Refiled January 27, 2022 - adjusted to reflect format of quarterly report. Program Implementation Expenses/lifetime kWh.
(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 2022 Target and Preliminary 3rd Quarter Results

GAS PROGRAMS Sector and Program	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(16)	(10)	(11)	(12)	(17)	(13)	(14)	(15) Peak Hour Gas Demand Savings (MMBtu)
	Energy Savings (Annual MMBtu)			Customer Participation			Expenses (\$ 000)				Energy Savings (Lifetime MMBtu)				\$/Lifetime 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
Commercial and Industrial																	
Large Commercial New Construction	52,956	20,382	38.5%	94	18	19.4%	\$ 3,140.9	\$ 1,430.8	45.6%	67.3%	788,763	276,165	35.0%	78.4%	\$ 3.98	\$ 5.18	10.19
Large Commercial Retrofit	142,888	63,127	44.2%	62	60	96.1%	\$ 4,672.1	\$ 3,037.1	65.0%	114.1%	1,332,508	644,585	48.4%	103.9%	\$ 3.51	\$ 4.71	31.56
Small Business Direct Install	6,113	2,743	44.9%	170	81	47.5%	\$ 354.1	\$ 277.4	78.4%	85.1%	91,700	52,200	56.9%	100.0%	\$ 3.86	\$ 5.32	1.37
Commercial & Industrial Multifamily	8,803	1,242	14.1%	729	58	8.0%	\$ 957.0	\$ 236.2	24.7%	55.0%	131,220	21,962	16.7%	51.7%	\$ 7.29	\$ 10.75	0.62
Commercial Pilots							\$ 215.8	\$ 67.2	31.1%	100.0%							
Community Based Initiatives - C&I							\$ 28.3	\$ 1.2	4.3%	100.0%							
Commercial Workforce Development							\$ 67.5	\$ -	0.0%	100.0%							
SUBTOTAL	210,760	87,494	41.5%	1,056	217	20.5%	\$ 9,435.7	\$ 5,049.8	53.5%	91.0%	2,344,192	994,912	42.4%	92.3%	\$ 4.03	\$ 5.08	43.75
Income Eligible Residential																	
Single Family - Income Eligible Services	10,942	4,271	39.0%	1,098	368	33.5%	\$ 6,370.0	\$ 2,825.7	44.4%	75.0%	218,847	85,428	39.0%	75.0%	\$ 29.11	\$ 33.08	2.14
Income Eligible Multifamily	14,700	3,264	22.2%	3,150	1,202	38.2%	\$ 2,947.5	\$ 874.2	29.7%	115.0%	273,085	79,315	29.0%	90.0%	\$ 10.79	\$ 11.02	1.63
SUBTOTAL	25,642	7,536	29.4%	4,248	1,570	37.0%	\$ 9,317.6	\$ 3,700.0	39.7%	87.7%	491,932	164,743	33.5%	83.3%	\$ 18.94	\$ 22.46	3.77
Non-Income Eligible Residential																	
EnergyWise	20,850	16,817	80.7%	1,761	2,804	159.2%	\$ 8,575.0	\$ 6,513.7	76.0%	104.5%	478,550	396,134	82.8%	105.0%	\$ 17.92	\$ 16.44	8.41
Energy Star® HVAC	26,740	11,991	44.8%	3,062	1,537	50.2%	\$ 3,650.5	\$ 1,453.5	39.8%	75.7%	439,717	199,449	45.4%	80.0%	\$ 8.30	\$ 7.29	6.00
EnergyWise Multifamily	8,279	1,076	13.0%	4,000	123	3.1%	\$ 1,488.6	\$ 230.8	15.5%	70.0%	147,064	23,018	15.7%	60.0%	\$ 10.12	\$ 10.03	0.54
Home Energy Reports	93,548	79,792	85.3%	152,324	145,011	95.2%	\$ 441.5	\$ 255.8	57.9%	100.0%	93,548	79,792	85.3%	100.0%	\$ 4.72	\$ 3.21	39.90
Residential New Construction	3,610	672	18.6%	289	67	23.1%	\$ 566.4	\$ 323.2	57.1%	98.0%	64,899	16,802	25.9%	68.0%	\$ 8.73	\$ 19.24	0.34
Comprehensive Marketing - Residential							\$ 68.0	\$ 15.2	22.4%	100.0%							
Community Based Initiatives - Residential							\$ 85.0	\$ 0.0	0.0%	23.5%							
SUBTOTAL	153,027	110,348	72.1%	161,436	149,542	92.6%	\$ 14,875.0	\$ 8,792.1	59.1%	93.1%	1,223,778	715,194	58.4%	88.3%	\$ 12.16	\$ 12.29	55.17
Regulatory																	
EERMC							\$ 259.5	\$ 74.0	28.5%	100.0%							
OER							\$ 755.6	\$ 527.0	69.7%	100.0%							
Rhode Island Infrastructure Bank							\$ 1,262.5	\$ -	0.0%	100.0%							
SUBTOTAL							\$ 2,277.6	\$ 601.0	26.4%	100.0%							
TOTAL	389,430	205,378	52.7%	166,740	151,329	90.8%	\$ 35,906.0	\$ 18,143.0	50.5%	91.6%	4,059,902	1,874,849	46.2%	90.0%	\$ 8.84	\$ 9.68	102.69

NOTES
(1)(4) Targets from Docket 5189 - Attachment 6, Table G-7 (gas), Refiled January 27, 2022.
(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 5189, Attachment 6 Table G-3 (gas), Refiled January 27, 2022.
(8) Year To Date Expenses include Implementation expenses.
(9) Pct Achieved is Column (8)/ Column (7).
(13) Planned \$/lifetime MMBtu from Docket 5189 - Attachment 6, Table G-5 (gas), Refiled January 27, 2022 - 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 2022 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)	2022 Funds Available	\$5,202,855	(1)	2022 Funds Available	\$3,137,538
(2)	2022 Loan budget	\$12,000,000	(2)	2022 Loan budget	\$1,500,000
(3)	Committed	\$2,492,539	(3)	Committed	\$792,593
(4)	Paid	\$2,913,223	(4)	Paid	\$594,445
(5)	Repayments	<u>\$4,652,026</u>	(5)	Repayments	<u>\$676,603</u>
(6)	Available 6/30/22	<u>\$4,449,119</u>	(6)	Available 6/30/22	<u>\$2,427,103</u>
(7)	Outstanding loan volume	\$14,483,647	(7)	Outstanding loan volume	\$494,515
(8)	Loan defaults during period (\$)	\$0	(8)	Loan defaults during period (\$)	\$0
(9)	Arrears over 120 days at period end (\$)	\$75,497	(9)	Arrears over 120 days at period end (\$)	\$14,686
<u>Program Impact</u>			<u>Program Impact</u>		
(10)	Number of loans	64	(10b)	Participants	436
(10b)	Participants	35	(11)	Annual Savings (Gross MWh)	5,572
(11)	Annual Savings (Gross MWh)	6,124	(12)	Annual Savings (Net MWh)	5,051
(12)	Annual Savings (Net MWh)	4,810	(13)	Lifetime Savings (Gross MWh)	44,879
(13)	Lifetime Savings (Gross MWh)	45,097	(14)	Lifetime Savings (Net MWh)	41,270
(14)	Lifetime Savings (Net MWh)	27,192	(15)	Annual Savings (Gross kW)	1,069
(15)	Annual Savings (Gross kW)	1,197	(16)	Annual Saving (Net kW)	873
(16)	Annual Saving (Net kW)	556	(17)	Total associated incentive volume (\$)	\$3,558,440
(17)	Total associated incentive volume (\$)	\$1,821,582	(18)	Total annual estimated energy cost savings (\$)	\$893,972
(18)	Total annual estimated energy cost savings (\$)	\$851,370			

Rhode Island Public Energy Partnership (RI PEP)

<u>Income Statement</u>		
(1)	2022 Funds Available	\$46,895
(2)	2022 Loan budget	\$0
(3)	Committed	\$0
(4)	Paid	\$0
(4a)	Funds Returned to OER	\$0
(5)	Repayments	<u>\$7,267</u>
(6)	Available 6/30/22	<u>\$54,162</u>
(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, 2022. Includes line (6) "Available 12/31/21" plus line (3) "Committed" in Table E-6 and G-6 of the 2021 Year End Report.
- 2 Budget adopted by Sales Team for 2022 operations. Budget includes projections of repayments made during 2022.
- 3 As of September 30, 2022
- 4 As of September 30, 2022. This includes all projects paid through September 30, 2022 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 As of September 30, 2022. This includes all projects paid through September 30, 2022 and the OBR associated with those projects. OBR payments are processed once the associated incentive has been paid, usually in batches.
- 6 Fund balance as of September 30, 2022. 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 September 30, 2022.
- 10 As of September 30, 2022
- 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).
- 10b business (not adjusted for net-to-gross).
- 11 As of September 30, 2022
- 12 As of September 30, 2022
- 13 As of September 30, 2022
- 14 As of September 30, 2022
- 15 As of September 30, 2022
- 16 As of September 30, 2022
- 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 2022 Revolving Loan Funds

Large C&I Gas Revolving Loan Fund

<u>Income Statement</u>		
(1)	2022 Funds Available	\$1,035,330
(2)	2022 Loan budget	\$2,000,000
(3)	Committed	\$305,912
(4)	Paid	\$747,752
(5)	Repayments	\$475,910
(6)	Available 6/30/22	\$457,576
(7)	Outstanding loan volume	\$1,580,213
(8)	Loan defaults during period (\$)	\$0
(9)	Arrears over 120 days at period end (\$)	\$59,979
<u>Program Impact</u>		
(10)	Number of loans	33
(10b)	Participants	26
(11)	Annual Savings (Gross MMBtu)	32,385
(12)	Annual Savings (Net MMBtu)	29,713
(13)	Lifetime Savings (Gross MMBtu)	395,781
(14)	Lifetime Savings (Net MMBtu)	369,634
(17)	Total associated incentive volume (\$)	\$1,556,025
(18)	Total annual estimated energy cost savings (\$)	\$609,235

Notes

- 1 Amount available as of January 1, 2022. Includes line (6) "Available 12/31/21" plus line (3) "Committed" in Table E-6 and G-6 of the 2021 Year End Report.
 - 2 Budget adopted by Sales Team for 2022 operations. Budget includes projections of repayments made during 2022.
 - 3 As of September 30, 2022
 - 4 As of September 30, 2022. This includes all project paid through September 30, 2022 and the OBR associated with those projects. OBR payment are processed once the associated incentive has been paid usually in batches.
 - 5 As of September 30, 2022
 - 6 Fund balance as of September 30, 2022. 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 September 30, 2022.
 - 10 As of September 30, 2022
 - 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 September 30, 2022
 - 12 As of September 30, 2022
 - 13 As of September 30, 2022
 - 14 As of September 30, 2022
 - 15 As of September 30, 2022
 - 16 As of September 30, 2022
 - 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.

<p align="center">Table 5 Rhode Island Energy 2022 Test Metrics</p> <p align="center">Carbon Reduction²</p>					
	CO2 (Electricity)	CO2 (Natural Gas)	CO2 (Oil)	CO2 (Propane)	CO2 (Total)
Residential	12,008	6,455	8,586	15,580	42,631
Income Eligible	410	441	319	14	1,183
C&I	10,752	5,118	(494)	-	15,376
Total	23,170	12,015	8,411	15,594	59,190
<p>NOTES</p> <p>² Carbon emissions values are from AESC 2021, Appendix G Tab 159.</p>					

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The Narragansett Electric Company
d/b/a Rhode Island Energy
RIPUC Docket No. 22-33-EE
In Re: 2023 Annual Energy Efficiency Plan
Responses to the Commission's Sixth of Data Requests
Issued on December 2, 2022

PUC 6-3

Request:

Please provide a table showing the actual spend compared to the forecasted spend for all programs in the C&I program for the years 2017 through 2022. Please use actual spend for the years 2017-2021 and use forecasted spend for 2022. (Please clearly explain what portion of the 2022 spend is actual and how much is forecasted.) The table should include, at least, a column showing forecasted spend, actual spend, variance in dollars, and variance in percentage for each year.

Response:

See the table below for actual spending and filed plan budget for C&I programs for the years 2017-2022. The total forecasted 2022 actual spend is broken out between actual spending through October 2022 and forecasted spending for November through December of 2022.

Note that the current 2023 plan budget numbers are based on a rightsizing of the budget which reflects the Company's belief of what can be spent.

Fuel	Program	2017			
		Actual Spend	Filed Budget	Variance \$	Variance %
Electric	Commercial Connected Solutions	n/a	n/a	n/a	n/a
	Large Commercial New Construction	\$3,771,656	\$5,121,393	-\$1,349,737	-26%
	Commercial Demonstration and R&D	\$42,652	\$874,419	-\$831,767	-95%
	Community Based Initiatives - C&I	n/a	n/a	n/a	n/a
	Large Commercial Retrofit	\$18,778,707	\$22,708,411	-\$3,929,704	-17%
	Small Business Direct Install	\$6,758,850	\$8,431,368	-\$1,672,519	-20%
	LED Municipal Streetlights	\$722,708	\$1,525,000	-\$802,292	-53%
Gas	Commercial & Industrial Multifamily	\$108,136	\$738,853	-\$630,717	-85%
	Commercial Demonstration and R&D	\$2,621	\$73,800	-\$71,179	-96%
	Community Based Initiatives - C&I	n/a	n/a	n/a	n/a
	Large Commercial New Construction	\$1,644,080	\$1,877,671	-\$233,591	-12%
	Large Commercial Retrofit	\$2,923,248	\$5,247,440	-\$2,324,192	-44%
	Small Business Direct Install	\$114,389	\$268,679	-\$154,290	-57%
Fuel	Program	2018			

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		Actual Spend	Filed Budget	Variance \$	Variance %
Electric	Commercial ConnectedSolutions	n/a	n/a	n/a	n/a
	Large Commercial New Construction	\$5,176,973	\$6,111,715	-\$934,742	-15%
	Commercial Demonstration and R&D	\$937,980	\$885,780	\$52,200	6%
	Community Based Initiatives - C&I	\$1,961	\$40,900	-\$38,939	-95%
	Large Commercial Retrofit	\$22,657,199	\$24,030,729	-\$1,373,531	-6%
	Small Business Direct Install	\$5,982,325	\$6,924,526	-\$942,201	-14%
	LED Municipal Streetlights	\$861,260	\$0	\$861,260	0%
Gas	Commercial & Industrial Multifamily	\$814,902	\$410,188	\$404,714	99%
	Commercial Demonstration and R&D	\$5,276	\$482,143	-\$476,867	-99%
	Community Based Initiatives - C&I	\$63	\$9,800	-\$9,738	-99%
	Large Commercial New Construction	\$2,787,537	\$2,658,063	\$129,474	5%
	Large Commercial Retrofit	\$4,257,467	\$3,643,256	\$614,211	17%
	Small Business Direct Install	\$142,977	\$132,490	\$10,487	8%

Fuel	Program	2019			
		Actual Spend	Filed Budget	Variance \$	Variance %
Electric	Commercial ConnectedSolutions	\$1,308,815	\$2,024,134	-\$715,320	-35%
	Large Commercial New Construction	\$6,487,905	\$5,036,144	\$1,451,761	29%
	Commercial Demonstration and R&D	\$40,110	\$197,930	-\$157,820	-80%
	Community Based Initiatives - C&I	\$15,743	\$40,138	-\$24,394	-61%
	Large Commercial Retrofit	\$27,310,200	\$21,356,523	\$5,953,677	28%
	Small Business Direct Install	\$7,929,589	\$8,441,954	-\$512,365	-6%
	LED Municipal Streetlights	\$82,007	\$0	\$82,007	0%
Gas	Commercial & Industrial Multifamily	\$996,961	\$918,370	\$78,591	9%
	Commercial Demonstration and R&D	\$52,254	\$381,126	-\$328,873	-86%
	Community Based Initiatives - C&I	\$3,773	\$13,013	-\$9,239	-71%
	Large Commercial New Construction	\$2,823,864	\$2,389,230	\$434,634	18%
	Large Commercial Retrofit	\$4,890,060	\$4,213,964	\$676,096	16%
	Small Business Direct Install	\$93,710	\$124,446	-\$30,736	-25%
Fuel	Program	2020			

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		Actual Spend	Filed Budget	Variance \$	Variance %
Electric	Commercial ConnectedSolutions	\$2,334,155	\$2,078,480	\$255,675	12%
	Large Commercial New Construction	\$6,348,921	\$5,335,735	\$1,013,187	19%
	Commercial Demonstration and R&D	\$4,627	\$106,269	-\$101,642	-96%
	Community Based Initiatives - C&I	\$600	\$66,093	-\$65,493	-99%
	Large Commercial Retrofit	\$21,656,980	\$23,801,319	-\$2,144,339	-9%
	Small Business Direct Install	\$7,508,356	\$7,568,598	-\$60,242	-1%
	LED Municipal Streetlights	\$323,131	\$0	\$323,131	0%
Gas	Commercial & Industrial Multifamily	\$333,460	\$967,936	-\$634,476	-66%
	Commercial Demonstration and R&D	\$96,925	\$366,015	-\$269,090	-74%
	Community Based Initiatives - C&I	\$0	\$22,031	-\$22,031	-100%
	Large Commercial New Construction	\$2,725,959	\$2,652,586	\$73,373	3%
	Large Commercial Retrofit	\$3,030,681	\$4,889,079	-\$1,858,398	-38%
	Small Business Direct Install	\$134,114	\$125,007	\$9,107	7%

Fuel	Program	2021			
		Actual Spend	Filed Budget	Variance \$	Variance %
Electric	Commercial ConnectedSolutions	\$3,086,268	\$2,990,106	\$96,162	3%
	Large Commercial New Construction	\$8,293,665	\$8,188,175	\$105,490	1%
	Commercial Demonstration and R&D	\$0	\$0	\$0	0%
	Community Based Initiatives - C&I	\$0	\$74,531	-\$74,531	-100%
	Large Commercial Retrofit	\$23,407,589	\$31,565,242	-\$8,157,653	-26%
	Small Business Direct Install	\$7,483,172	\$8,883,559	-\$1,400,388	-16%
	LED Municipal Streetlights	\$79,841	\$0	\$79,841	0%
Gas	Commercial & Industrial Multifamily	\$951,351	\$953,219	-\$1,868	0%
	Commercial Demonstration and R&D	\$105,542	\$215,780	-\$110,238	-51%
	Community Based Initiatives - C&I	\$0	\$24,844	-\$24,844	-100%
	Large Commercial New Construction	\$2,569,731	\$2,634,162	-\$64,431	-2%
	Large Commercial Retrofit	\$3,278,080	\$5,054,116	-\$1,776,036	-35%
	Small Business Direct Install	\$158,650	\$332,651	-\$174,000	-52%

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Fuel	Program	2022					
		Actual Spend thru Oct 2022	Forecasted Spend Nov-Dec 2022	Total Forecasted Spend	Filed Budget	Variance \$	Variance %
Electric	Commercial Connected Solutions	\$311,590	\$4,553,410	\$4,865,000	\$4,393,611	\$471,389	11%
	Large Commercial New Construction	\$2,603,389	\$791,826	\$3,395,215	\$10,294,596	-\$6,899,381	-67%
	Commercial Demonstration and R&D	\$0	\$0	\$0	\$0	\$0	0%
	Community Based Initiatives - C&I	\$6,336	\$993	\$7,329	\$84,965	-\$77,636	-91%
	Large Commercial Retrofit	\$9,522,113	\$7,854,581	\$17,376,694	\$24,888,317	-\$7,511,623	-30%
	Small Business Direct Install	\$4,249,228	\$2,594,893	\$6,844,121	\$8,883,289	-\$2,039,168	-23%
	LED Municipal Streetlights	\$573,697	-\$573,697	\$0	\$0	\$0	0%
Gas	Commercial & Industrial Multifamily	\$259,716	\$266,637	\$526,353	\$957,006	-\$430,653	-45%
	Commercial Demonstration and R&D	\$67,165	\$148,615	\$215,780	\$215,780	\$0	0%
	Community Based Initiatives - C&I	\$2,047	\$315	\$2,362	\$28,322	-\$25,959	-92%
	Large Commercial New Construction	\$1,546,888	\$312,942	\$1,859,830	\$3,140,910	-\$1,281,080	-41%
	Large Commercial Retrofit	\$3,257,303	\$1,887,241	\$5,144,544	\$4,574,701	\$569,843	12%
	Small Business Direct Install	\$290,525	-\$2,861	\$287,664	\$354,083	-\$66,419	-19%