

**Table E-1**  
**National Grid**  
**Electric DSM Funding Sources in 2022 by Sector**  
**\$(000)**

	<b>Income Eligible Residential</b>	<b>Projections by Sector Non-Income Eligible Residential</b>	<b>Commercial &amp; Industrial</b>	<b>Total</b>
(1) <b>Projected Budget (from E-2):</b>	\$17,045.1	\$36,124.6	\$69,446.8	\$122,616.5
<b>Sources of Other Funding:</b>				
(2) Projected DSM Commitments at Year-End 2021:	\$0.0	\$0.0	\$0.0	\$0.0
(3) Projected Year-End 2021 Fund Balance and Interest:	\$0.0	(\$10,883.5)	\$9,371.2	(\$1,512.3)
(4) Projected FCM Payments from ISO-NE:	\$434.6	\$5,570.3	\$8,580.6	\$14,585.5
(5) <b>Total Other Funding:</b>	<b>\$434.6</b>	<b>(\$5,313.2)</b>	<b>\$17,951.8</b>	<b>\$13,073.2</b>
(6) <b>Customer Funding Required:</b>	<b>\$16,610.5</b>	<b>\$41,437.8</b>	<b>\$51,495.0</b>	<b>\$109,543.3</b>
(7) <b>Forecasted kWh Sales:</b>	<b>201,866,350</b>	<b>2,587,346,620</b>	<b>3,985,640,851</b>	<b>6,774,853,822</b>
(8) Energy Efficiency Program charge per kWh, excluding uncollectible recovery:				<b>\$0.01616</b>
(9) Proposed SRP Opex Factor per kWh, excluding uncollectible recovery:				<u>\$0.00000</u>
(10) Total Proposed Energy Efficiency Charge per kWh, excluding uncollectible recovery:				\$0.01616
(11) Currently Effective Uncollectible Rate				1.30%
(12) <b>Proposed Energy Efficiency Program Charge per kWh, including Uncollectible Recovery:</b>				\$0.01637
(13) Currently Effective Energy Efficiency Program Charge per kwh				<u>\$0.01113</u>
(14) Proposed Adjustment to Reflect Fully Reconciling Funding Mechanism				\$0.00524

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 2022.
- (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 Company proposes to refile this table with updated Fund Balance projections on November 17, 2022 as proposed in Section 10 of the Plan's Main Text.
- (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
- (8) Line (6) ÷ Line (7), truncated to 5 decimal places
- (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.
- (14) Line (12) - Line (13)

**Table E-2  
National Grid  
2022 Electric Energy Efficiency Program Budget (\$000)**

	Program Planning & Administration	Marketing	Cost of services and product rebates/incentives provided to customers	Sales, Technical Assistance & Training	Evaluation & Market Research	Total Performance Incentive	Grand Total
<b>Non-Income Eligible Residential</b>							
Residential New Construction	\$91.6	\$23.6	\$800.9	\$545.5	\$79.9		\$1,541.5
ENERGY STAR® HVAC	\$95.7	\$279.6	\$3,324.7	\$524.6	\$262.3		\$4,486.9
EnergyWise	\$401.8	\$373.6	\$13,289.6	\$1,418.5	\$282.0		\$15,765.6
EnergyWise Multifamily	\$100.5	\$74.3	\$2,613.8	\$441.6	\$40.4		\$3,270.7
Residential Consumer Products	\$83.5	\$464.3	\$1,724.7	\$542.4	\$22.2		\$2,837.1
Home Energy Reports	\$55.9	\$13.1	\$0.0	\$2,551.5	\$20.8		\$2,641.3
Residential ConnectedSolutions	\$38.0	\$11.3	\$1,347.1	\$368.4	\$37.4		\$1,802.2
Energy Efficiency Education Programs	\$0.0	\$40.0	\$0.0	\$0.0	\$0.0		\$40.0
Residential Pilots	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0		\$0.0
Community Based Initiatives - Residential	\$33.7	\$125.2	\$96.2	\$0.0	\$0.0		\$255.1
Comprehensive Marketing - Residential	\$1.3	\$356.7	\$0.0	\$0.0	\$0.0		\$357.9
Residential Performance Incentive	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
<b>Subtotal - Non-Income Eligible Residential</b>	<b>\$902.1</b>	<b>\$1,761.8</b>	<b>\$23,196.9</b>	<b>\$6,392.5</b>	<b>\$744.9</b>	<b>\$0.0</b>	<b>\$32,998.3</b>
<b>Income Eligible Residential</b>							
Single Family - Income Eligible Services	\$336.0	\$135.0	\$10,756.0	\$1,965.9	\$72.5		\$13,265.4
Income Eligible Multifamily	\$113.8	\$14.1	\$3,024.0	\$344.1	\$39.8		\$3,535.8
Income Eligible Performance Incentive	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
<b>Subtotal - Income Eligible Residential</b>	<b>\$449.8</b>	<b>\$149.2</b>	<b>\$13,780.0</b>	<b>\$2,310.0</b>	<b>\$112.3</b>	<b>\$0.0</b>	<b>\$16,801.2</b>
<b>Commercial &amp; Industrial</b>							
Large Commercial New Construction	\$291.9	\$306.8	\$15,809.2	\$1,546.1	\$432.9		\$18,386.8
Large Commercial Retrofit	\$732.9	\$239.5	\$18,529.5	\$4,814.15	\$816.3		\$25,132.4
Small Business Direct Install	\$226.1	\$244.0	\$7,937.2	\$306.0	\$256.0		\$8,969.4
Commercial ConnectedSolutions	\$96.1	\$6.8	\$4,102.6	\$180.4	\$0.0		\$4,386.0
Commercial Pilots	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0		\$0.0
Community Based Initiatives - C&I	\$11.2	\$41.7	\$32.1	\$0.0	\$0.0		\$85.0
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	\$171.5	\$0.0		\$171.5
Commercial & Industrial Performance Incentive	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$5,500.0	\$5,500.0
<b>Subtotal - Commercial &amp; Industrial</b>	<b>\$1,358.3</b>	<b>\$838.8</b>	<b>\$48,410.5</b>	<b>\$7,018.2</b>	<b>\$1,505.2</b>	<b>\$5,500.0</b>	<b>\$64,631.0</b>
<b>Regulatory</b>							
OER	\$1,911.5	\$0.0	\$0.0	\$0.0	\$0.0		\$1,911.5
EERMC	\$1,274.4	\$0.0	\$0.0	\$0.0	\$0.0		\$1,274.4
Rhode Island Infrastructure Bank	\$0.0	\$0.0	\$5,000.0	\$0.0	\$0.0		\$5,000.0
<b>Subtotal - Regulatory</b>	<b>\$3,185.9</b>	<b>\$0.0</b>	<b>\$5,000.0</b>	<b>\$0.0</b>	<b>\$0.0</b>	<b>\$0.0</b>	<b>\$8,185.9</b>
<b>Grand Total</b>	<b>\$5,896.1</b>	<b>\$2,749.8</b>	<b>\$90,387.5</b>	<b>\$15,720.7</b>	<b>\$2,362.3</b>	<b>\$5,500.0</b>	<b>\$122,616.5</b>

**Notes:**

- (1) 2022 Large Commercial Retrofit Commitments (\$000):
- (2) For more information on Finance Costs, please refer to Attachment 2, Section 9.
- (3) OER and EERMC total 3.0% of customers' EE Program Charge collected on Table E-1, minus 3%.
- (4) Finance Costs are detailed in Table E-9.
- (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.
- (6) 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 E-3  
National Grid  
Derivation of the 2022 Spending and Implementation Budgets (\$000)**

	<b>Proposed 2022 Budget From E-2</b>	<b>Commitments</b>	<b>Regulatory Costs</b>	<b>Performance Incentive</b>	<b>Eligible Sector Spending Budget for Performance Incentive on E-8B</b>	<b>Implementation Expenses for Cost- Effectiveness on E-5</b>
<b>Non-Income Eligible Residential</b>						
Residential New Construction	\$1,541.5					\$1,541.5
ENERGY STAR@ HVAC	\$4,486.9					\$4,486.9
EnergyWise	\$15,765.6					\$15,765.6
EnergyWise Multifamily	\$3,270.7					\$3,270.7
Residential Consumer Products	\$2,837.1					\$2,837.1
Home Energy Reports	\$2,641.3					\$2,641.3
Residential ConnectedSolutions	\$1,802.2					\$1,802.2
Energy Efficiency Education Programs	\$40.0					\$40.0
Residential Pilots	\$0.0					\$0.0
Community Based Initiatives - Residential	\$255.1					\$255.1
Comprehensive Marketing - Residential	\$357.9					\$357.9
Residential Performance Incentive	\$0.0			\$0.0		\$0.0
<b>Subtotal - Non-Income Eligible Residential</b>	<b>\$32,998.3</b>	<b>\$0.0</b>	<b>\$0.0</b>	<b>\$0.0</b>	<b>\$31,171.3</b>	<b>\$32,998.3</b>
<b>Income Eligible Residential</b>						
Single Family - Income Eligible Services	\$13,265.4					\$13,265.4
Income Eligible Multifamily	\$3,535.8					\$3,535.8
Income Eligible Performance Incentive	\$0.0			\$0.0		\$0.0
<b>Subtotal - Income Eligible Residential</b>	<b>\$16,801.2</b>	<b>\$0.0</b>	<b>\$0.0</b>	<b>\$0.0</b>	<b>\$16,801.2</b>	<b>\$16,801.2</b>
<b>Commercial &amp; Industrial</b>						
Large Commercial New Construction	\$18,386.8	\$0.0				\$18,386.8
Large Commercial Retrofit	\$25,132.4	\$0.0				\$25,132.4
Small Business Direct Install	\$8,969.4	\$0.0				\$8,969.4
Commercial ConnectedSolutions	\$4,386.0					\$4,386.0
Commercial Pilots	\$0.0					\$0.0
Community Based Initiatives - C&I	\$85.0					\$85.0
Finance Costs	\$2,000.0					\$2,000.0
Commercial Workforce Development	\$171.5					\$171.5
Commercial & Industrial Performance Incentive	\$5,500.0			\$5,500.0		\$0.0
<b>Subtotal - Commercial &amp; Industrial</b>	<b>\$64,631.0</b>	<b>\$0.0</b>	<b>\$0.0</b>	<b>\$5,500.0</b>	<b>\$54,714.0</b>	<b>\$59,131.0</b>
<b>Regulatory</b>						
OER	\$1,911.5		\$1,911.5			\$1,911.5
EERMC	\$1,274.4		\$1,274.4			\$1,274.4
Rhode Island Infrastructure Bank	\$5,000.0		\$5,000.0			\$5,000.0
<b>Subtotal - Regulatory</b>	<b>\$8,185.9</b>	<b>\$0.0</b>	<b>\$8,185.9</b>	<b>\$0.0</b>	<b>\$0.0</b>	<b>\$8,185.9</b>
<b>Grand Total</b>	<b>\$122,616.5</b>	<b>\$0.0</b>	<b>\$8,185.9</b>	<b>\$5,500.0</b>	<b>\$102,686.5</b>	<b>\$117,116.5</b>

**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  
National Grid  
Proposed 2022 Budget Compared to Approved 2021 Budget (\$000)**

	<b>Proposed Implementation Budget 2022</b>	<b>Approved Implementation Budget 2021</b>	<b>Difference</b>
<b>Non-Income Eligible Residential</b>			
Residential New Construction	\$1,541.5	\$1,611.3	-\$69.8
ENERGY STAR® HVAC	\$4,486.9	\$3,487.8	\$999.1
EnergyWise	\$15,765.6	\$15,692.2	\$73.4
EnergyWise Multifamily	\$3,270.7	\$2,804.3	\$466.4
ENERGY STAR® Lighting	\$0.0	\$5,274.8	-\$5,274.8
Residential Consumer Products	\$2,837.1	\$2,681.2	\$155.9
Home Energy Reports	\$2,641.3	\$2,641.7	-\$0.4
Residential ConnectedSolutions	\$1,802.2	\$1,920.5	-\$118.3
Energy Efficiency Education Programs	\$40.0	\$40.0	\$0.0
Residential Pilots	\$0.0	\$0.0	\$0.0
Community Based Initiatives - Residential	\$255.1	\$226.2	\$28.9
Comprehensive Marketing - Residential	\$357.9	\$332.7	\$25.2
<b>Subtotal - Non-Income Eligible Residential</b>	<b>\$32,998.3</b>	<b>\$36,712.7</b>	<b>-\$3,714.3</b>
<b>Income Eligible Residential</b>			
Single Family - Income Eligible Services	\$13,265.4	\$12,846.1	\$419.3
Income Eligible Multifamily	\$3,535.8	\$3,549.0	-\$13.2
<b>Subtotal - Income Eligible Residential</b>	<b>\$16,801.2</b>	<b>\$16,395.1</b>	<b>\$406.2</b>
<b>Commercial &amp; Industrial</b>			
Large Commercial New Construction	\$18,386.8	\$8,188.2	\$10,198.7
Large Commercial Retrofit	\$25,132.4	\$31,565.2	-\$6,432.9
Small Business Direct Install	\$8,969.4	\$8,883.6	\$85.8
Commercial ConnectedSolutions	\$4,386.0	\$2,990.1	\$1,395.9
Community Based Initiatives - C&I	\$85.0	\$74.5	\$10.4
Commercial Pilots	\$0.0	\$0.0	\$0.0
Finance Costs	\$2,000.0	\$5,000.0	-\$3,000.0
Commercial Workforce Development	\$171.5	\$0.0	\$171.5
<b>Subtotal Commercial &amp; Industrial</b>	<b>\$59,131.0</b>	<b>\$56,701.6</b>	<b>\$2,429.4</b>
<b>Regulatory</b>			
EERMC	\$1,274.4	\$738.5	\$535.9
OER	\$1,911.5	\$738.5	\$1,173.0
Rhode Island Infrastructure Bank	\$5,000.0	\$0.0	\$5,000.0
<b>Subtotal Regulatory</b>	<b>\$8,185.9</b>	<b>\$1,477.0</b>	<b>\$6,708.9</b>
<b>TOTAL IMPLEMENTATION BUDGET</b>	<b>\$117,116.5</b>	<b>\$111,286.3</b>	<b>\$5,830.1</b>
<b>OTHER EXPENSE ITEMS</b>			
Commitments	\$0.0	\$0.0	\$0.0
Company Incentive	\$5,500.0	\$5,500.0	\$0.0
<b>Subtotal - Other Expense Items</b>	<b>\$5,500.0</b>	<b>\$5,500.0</b>	<b>\$0.0</b>
<b>TOTAL BUDGET</b>	<b>\$122,616.5</b>	<b>\$116,786.3</b>	<b>\$5,830.1</b>

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
- (3) The Energy Star® Lighting program year-over-year decrease is due to the phase out of the program in 2022.
- (4) In large part, the increased budget for the Large Commercial and Industrial New Construction program can be attributed to the proposed 13.3 MW CHP system, which accounts for approximately \$9,200,000 in incentives in the 2022 plan. The HVAC incentive budget also increased by approximately \$700,000 due to a 2,065,000 kWh increase in gross annual savings.
- (5) The Large Commercial Retrofit program decreased primarily due to roughly a \$5,400,000 reduction in lighting incentive due to lower anticipated volume as the market becomes increasingly saturated. The CHP budget also decreased approximately \$500,000 because there was a CHP retrofit in the 2021 plan but not 2022.
- (6) The increase in the 2022 Commercial and Industrial ConnectedSolutions program budget can be attributed to the higher participation in the Daily Dispatch demand response offering. In total, the customer incentive payments represent approximately 98% of the cost associated with this measure.
- (7) The Finance Cost decline is driven by a reallocation of \$5M in RIIB from this line to the RIIB line under regulatory due to the updated the Least Cost Procurement statute (amended in 2021).
- (8) The increase in allocation of funds to the OER is made consistent with the state's System Reliability and Least Cost procurement statute (amended in 2021), which provides that the Commission shall allocate an amount not to exceed three percent (3.0%) from authorized demand-side management gas and electric funds authorized.
- (9) The Rhode Island Infrastructure Bank addition is driven by a reallocation of \$5M from the Finance Cost Line to the Rhode Island Infrastructure Bank line under the regulatory sector to comply with the Least Cost Procurement statute (amended in 2021).

**Table E-5 - Primary  
National Grid  
Calculation of 2022 Program Year Cost-Effectiveness  
All Dollar Values in (\$000)**

	<b>RI Test Benefit/ Cost<sup>1</sup></b>	<b>Total Benefit</b>	<b>Program Implementation Expenses<sup>2</sup></b>	<b>Customer Contribution</b>	<b>Performance Incentive</b>	<b>¢/Lifetime kWh</b>
<b>Non-Income Eligible Residential</b>						
Residential New Construction	2.03	\$4,232.1	\$1,541.5	\$547.2		14.0
ENERGY STAR® HVAC	2.31	\$14,630.8	\$4,486.9	\$1,848.5		8.2
EnergyWise	1.02	\$16,626.6	\$15,765.6	\$530.6		121.0
EnergyWise Multifamily	1.63	\$6,189.9	\$3,270.7	\$532.0		18.3
Home Energy Reports	2.04	\$5,401.4	\$2,641.3	\$0.0		9.8
Residential Consumer Products	2.19	\$9,713.3	\$2,837.1	\$1,606.6		9.3
Residential ConnectedSolutions	1.60	\$2,886.0	\$1,802.2	\$0.0		N/A
Energy Efficiency Education Programs			\$40.0			
Residential Pilots			\$0.0			
Community Based Initiatives - Residential			\$255.1			
Comprehensive Marketing - Residential			\$357.9			
<b>Non-Income Eligible Residential SUBTOTAL</b>	<b>1.57</b>	<b>\$59,680.0</b>	<b>\$32,998.3</b>	<b>\$5,064.9</b>	<b>\$0.0</b>	<b>18.9</b>
<b>Income Eligible Residential</b>						
Single Family - Income Eligible Services	1.94	\$25,758.0	\$13,265.4	\$0.0		34.4
Income Eligible Multifamily	2.37	\$8,368.1	\$3,535.8	\$0.0		14.5
<b>Income Eligible Residential SUBTOTAL</b>	<b>2.03</b>	<b>\$34,126.2</b>	<b>\$16,801.2</b>	<b>\$0.0</b>	<b>\$0.0</b>	<b>26.7</b>
<b>Commercial &amp; Industrial</b>						
Large Commercial New Construction	1.87	\$44,685.8	\$18,386.8	\$5,572.0		4.8
Large Commercial Retrofit	2.20	\$72,910.7	\$25,132.4	\$8,064.5		10.6
Small Business Direct Install	1.16	\$12,596.2	\$8,969.4	\$1,923.1		16.9
Commercial ConnectedSolutions	2.42	\$10,621.2	\$4,386.0	\$0.0		N/A
Commercial Pilots			\$0.0			
Community Based Initiatives - C&I			\$85.0			
Finance Costs			\$2,000.0			
Commercial Workforce Development			\$171.5			
<b>C&amp;I SUBTOTAL</b>	<b>1.76</b>	<b>\$140,813.9</b>	<b>\$59,131.0</b>	<b>\$15,559.7</b>	<b>\$5,500.0</b>	<b>8.5</b>
<b>Regulatory</b>						
OER			\$1,911.5			
EERMC			\$1,274.4			
Rhode Island Infrastructure Bank			\$5,000.0			
<b>Regulatory SUBTOTAL</b>			<b>\$8,185.9</b>			
<b>TOTAL</b>	<b>1.64</b>	<b>\$234,620.1</b>	<b>\$117,116.5</b>	<b>\$20,624.6</b>	<b>\$5,500.0</b>	<b>12.0</b>

Notes:

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

**Table E-6  
National Grid  
Summary of 2022 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
Winter Peak	Winter Off Peak	Summer Peak	Summer Off Peak																
<b>Non-Income Eligible Residential</b>																			
Residential New Construction	\$6,390	\$4,232	\$48	\$43	\$94	\$93	\$1	\$369	\$485	\$144	\$110	\$289	\$0	\$325	\$1,304	\$66	\$833	\$28	\$2,158
ENERGY STAR® HVAC	\$21,002	\$14,631	\$182	\$159	\$357	\$353	\$2	\$2,398	\$2,987	\$221	\$185	\$1,833	\$55	\$1,639	-\$16	\$384	\$3,762	\$131	\$6,371
EnergyWise	\$31,289	\$16,627	\$148	\$162	\$291	\$288	\$2	\$267	\$273	\$178	\$157	\$314	\$0	\$8,984	\$233	\$1,267	\$3,605	\$458	\$14,662
EnergyWise Multifamily	\$10,573	\$6,190	\$94	\$79	\$182	\$180	\$1	\$595	\$742	\$106	\$89	\$464	\$0	\$632	\$48	\$1,931	\$1,004	\$43	\$4,383
Home Energy Reports	\$8,043	\$5,401	\$207	\$450	\$365	\$362	\$6	\$646	\$531	\$251	\$183	\$640	\$0	\$0	\$0	\$0	\$1,736	\$23	\$2,641
Residential Consumer Products	\$14,026	\$9,713	\$335	\$719	\$752	\$745	\$9	\$903	\$981	\$485	\$487	\$1,496	\$15	\$42	\$41	\$4	\$2,663	\$37	\$4,312
<b>Non-Income Eligible Residential SUBTOTAL</b>	<b>\$91,322</b>	<b>\$56,794</b>	<b>\$1,014</b>	<b>\$1,612</b>	<b>\$2,041</b>	<b>\$2,022</b>	<b>\$21</b>	<b>\$5,178</b>	<b>\$5,999</b>	<b>\$1,385</b>	<b>\$1,210</b>	<b>\$5,036</b>	<b>\$70</b>	<b>\$11,622</b>	<b>\$1,609</b>	<b>\$3,652</b>	<b>\$13,603</b>	<b>\$720</b>	<b>\$34,528</b>
<b>Income Eligible Residential</b>																			
Single Family - Income Eligible Services	\$37,166	\$25,758	\$275	\$253	\$541	\$536	\$3	\$874	\$967	\$410	\$423	\$801	\$77	\$5,282	\$386	\$11,208	\$3,428	\$295	\$11,408
Income Eligible Multifamily	\$12,576	\$8,368	\$22	\$19	\$43	\$43	\$0	\$789	\$1,008	\$30	\$25	\$554	\$0	\$642	\$53	\$3,958	\$1,137	\$45	\$4,208
<b>Income Eligible Residential SUBTOTAL</b>	<b>\$49,742</b>	<b>\$34,126</b>	<b>\$297</b>	<b>\$271</b>	<b>\$584</b>	<b>\$578</b>	<b>\$3</b>	<b>\$1,663</b>	<b>\$1,975</b>	<b>\$440</b>	<b>\$448</b>	<b>\$1,354</b>	<b>\$77</b>	<b>\$5,924</b>	<b>\$439</b>	<b>\$15,165</b>	<b>\$4,565</b>	<b>\$340</b>	<b>\$15,616</b>
<b>Commercial &amp; Industrial</b>																			
Large Commercial New Construction	\$87,264	\$44,686	\$1,336	\$1,155	\$2,616	\$2,592	\$14	\$14,396	\$17,982	\$3,158	\$1,916	\$10,681	-\$16,122	\$0	\$4	-\$2,160	\$8,198	-\$1,080	\$42,579
Large Commercial Retrofit	\$218,678	\$72,911	\$2,776	\$5,530	\$6,172	\$6,115	\$69	\$6,592	\$4,728	\$4,490	\$2,800	\$9,914	-\$1,887	\$0	\$30	\$10,381	\$15,134	\$67	\$145,768
Small Business Direct Install	\$30,266	\$12,596	\$248	\$599	\$569	\$564	\$7	\$1,395	\$807	\$1,018	\$519	\$2,089	-\$400	\$0	\$0	\$1,942	\$3,226	\$14	\$17,670
<b>C&amp;I SUBTOTAL</b>	<b>\$336,209</b>	<b>\$130,193</b>	<b>\$4,360</b>	<b>\$7,284</b>	<b>\$9,357</b>	<b>\$9,271</b>	<b>\$91</b>	<b>\$22,383</b>	<b>\$23,516</b>	<b>\$8,666</b>	<b>\$5,235</b>	<b>\$22,683</b>	<b>-\$18,410</b>	<b>\$0</b>	<b>\$34</b>	<b>\$10,162</b>	<b>\$26,558</b>	<b>-\$999</b>	<b>\$206,016</b>
<b>TOTAL</b>	<b>\$477,273</b>	<b>\$221,113</b>	<b>\$5,671</b>	<b>\$9,167</b>	<b>\$11,981</b>	<b>\$11,871</b>	<b>\$116</b>	<b>\$29,224</b>	<b>\$31,490</b>	<b>\$10,491</b>	<b>\$6,894</b>	<b>\$29,074</b>	<b>-\$18,263</b>	<b>\$17,547</b>	<b>\$2,083</b>	<b>\$28,980</b>	<b>\$44,727</b>	<b>\$61</b>	<b>\$256,160</b>

**Table E-5 - Secondary  
National Grid  
Calculation of 2022 Program Year Cost-Effectiveness with Economic Benefits Included  
All Dollar Values in (\$000)**

	<b>RI Test Benefit/ Cost<sup>1</sup></b>	<b>Total Benefit</b>	<b>Program Implementation Expenses<sup>2</sup></b>	<b>Customer Contribution</b>	<b>Performance Incentive</b>	<b>¢/Lifetime kWh</b>
<b>Non-Income Eligible Residential</b>						
Residential New Construction	3.06	\$6,390.2	\$1,541.5	\$547.2		14.0
ENERGY STAR® HVAC	3.32	\$21,002.1	\$4,486.9	\$1,848.5		8.2
EnergyWise	1.92	\$31,288.6	\$15,765.6	\$530.6		121.0
EnergyWise Multifamily	2.78	\$10,572.6	\$3,270.7	\$532.0		18.3
Home Energy Reports	3.04	\$8,042.7	\$2,641.3	\$0.0		9.8
Residential Consumer Products	3.16	\$14,025.7	\$2,837.1	\$1,606.6		9.3
Residential ConnectedSolutions	2.43	\$4,381.8	\$1,802.2	\$0.0		N/A
Energy Efficiency Education Programs			\$40.0			
Residential Pilots			\$0.0			
Community Based Initiatives - Residential			\$255.1			
Comprehensive Marketing - Residential			\$357.9			
<b>Non-Income Eligible Residential SUBTOTAL</b>	<b>2.51</b>	<b>\$95,703.8</b>	<b>\$32,998.3</b>	<b>\$5,064.9</b>	<b>\$0.0</b>	<b>18.9</b>
<b>Income Eligible Residential</b>						
Single Family - Income Eligible Services	2.80	\$37,166.3	\$13,265.4	\$0.0		34.4
Income Eligible Multifamily	3.56	\$12,575.8	\$3,535.8	\$0.0		14.5
<b>Income Eligible Residential SUBTOTAL</b>	<b>2.96</b>	<b>\$49,742.1</b>	<b>\$16,801.2</b>	<b>\$0.0</b>	<b>\$0.0</b>	<b>26.7</b>
<b>Commercial &amp; Industrial</b>						
Large Commercial New Construction	3.64	\$87,264.4	\$18,386.8	\$5,572.0		4.8
Large Commercial Retrofit	6.59	\$218,678.4	\$25,132.4	\$8,064.5		10.6
Small Business Direct Install	2.78	\$30,265.9	\$8,969.4	\$1,923.1		16.9
Commercial ConnectedSolutions	4.61	\$20,226.4	\$4,386.0	\$0.0		N/A
Commercial Pilots			\$0.0			
Community Based Initiatives - C&I			\$85.0			
Finance Costs			\$2,000.0			
Commercial Workforce Development			\$171.5			
<b>C&amp;I SUBTOTAL</b>	<b>4.44</b>	<b>\$356,435.0</b>	<b>\$59,131.0</b>	<b>\$15,559.7</b>	<b>\$5,500.0</b>	<b>8.5</b>
<b>Regulatory</b>						
OER			\$1,911.5			
EERMC			\$1,274.4			
Rhode Island Infrastructure Bank			\$5,000.0			
<b>Regulatory SUBTOTAL</b>			<b>\$8,185.9</b>			
<b>TOTAL</b>	<b>3.50</b>	<b>\$501,880.9</b>	<b>\$117,116.5</b>	<b>\$20,624.6</b>	<b>\$5,500.0</b>	<b>12.0</b>

Notes:

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

**Table E-5A**  
**National Grid**  
**Calculation of 2022 Program Year Cost-Effectiveness with TRC Test**  
**All Dollar Values in (\$000)**

	TRC Benefit/ Cost <sup>1</sup>	Total Benefit	Program Implementation Expenses <sup>2</sup>	Customer Contribution	Performance Incentive	¢/Lifetime kWh
<b>Non-Income Eligible Residential</b>						
Residential New Construction	1.61	\$3,371.2	\$1,541.5	\$547.2		14.0
ENERGY STAR® HVAC	1.69	\$10,738.0	\$4,486.9	\$1,848.5		8.2
EnergyWise	0.77	\$12,509.7	\$15,765.6	\$530.6		121.0
EnergyWise Multifamily	1.35	\$5,142.9	\$3,270.7	\$532.0		18.3
Home Energy Reports	1.38	\$3,642.0	\$2,641.3	\$0.0		9.8
Residential Consumer Products	1.39	\$6,187.3	\$2,837.1	\$1,606.6		9.3
Residential ConnectedSolutions	#REF!	#REF!	\$1,802.2	\$0.0		N/A
Energy Efficiency Education Programs			\$40.0			0.0
Residential Pilots			\$0.0			0.0
Community Based Initiatives - Residential			\$255.1			0.0
Comprehensive Marketing - Residential			\$357.9			0.0
<b>Non-Income Eligible Residential SUBTOTAL</b>	<b>#REF!</b>	<b>#REF!</b>	<b>\$32,998.3</b>	<b>\$5,064.9</b>	<b>\$0.0</b>	<b>18.9</b>
<b>Income Eligible Residential</b>						
Single Family - Income Eligible Services	1.66	\$22,034.6	\$13,265.4	\$0.0		34.4
Income Eligible Multifamily	2.03	\$7,186.3	\$3,535.8	\$0.0		14.5
<b>Income Eligible Residential SUBTOTAL</b>	<b>1.74</b>	<b>\$29,220.8</b>	<b>\$16,801.2</b>	<b>\$0.0</b>	<b>\$0.0</b>	<b>26.7</b>
<b>Commercial &amp; Industrial</b>						
Large Commercial New Construction	1.10	\$26,252.5	\$18,386.8	\$5,572.0		4.8
Large Commercial Retrofit	1.74	\$57,710.4	\$25,132.4	\$8,064.5		10.6
Small Business Direct Install	0.86	\$9,355.6	\$8,969.4	\$1,923.1		16.9
Commercial ConnectedSolutions	#REF!	#REF!	\$4,386.0			
Commercial Pilots			\$0.0			
Community Based Initiatives - C&I			\$85.0			
Finance Costs			\$2,000.0			
Commercial Workforce Development			\$171.5			
<b>C&amp;I SUBTOTAL</b>	<b>#REF!</b>	<b>#REF!</b>	<b>\$59,131.0</b>	<b>\$15,559.7</b>	<b>\$5,500.0</b>	<b>8.5</b>
<b>Regulatory</b>						
OER			\$1,911.5			
EERMC			\$1,274.4			
Rhode Island Infrastructure Bank			\$5,000.0			
<b>Regulatory SUBTOTAL</b>			<b>\$8,185.9</b>			
<b>TOTAL</b>	<b>#REF!</b>	<b>#REF!</b>	<b>\$117,116.5</b>	<b>\$20,624.6</b>	<b>\$5,500.0</b>	<b>12.0</b>

(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-6A**  
**National Grid**  
**Summary of 2022 Impacts by Program (Energy Efficiency Measures)**

	Load Reduction in kW		Electric Energy Savings				Gas Saved		Oil Saved		Propane Saved		Total Net Savings (Electric, Gas, Oil, Propane)	
			MWh		MMBtu		MMBtu		MMBtu		MMBtu		MMBtu	
	Summer	Winter	Annual	Lifetime	Annual	Lifetime	Annual	Lifetime	Annual	Lifetime	Annual	Lifetime	Annual	Lifetime
<b>Non-Income Eligible Residential</b>														
Residential New Construction	74	259	867	14,947	2,957	50,998	-	-	521	13,016	1,321	33,013	4,798	97,027
ENERGY STAR® HVAC	240	1,063	4,620	77,717	15,762	265,169	395	6,012	4,463	67,405	(33)	(424)	20,587	338,161
EnergyWise	424	506	2,789	13,472	9,515	45,968	-	-	19,019	364,568	230	3,654	28,764	414,190
EnergyWise Multifamily	143	350	1,424	20,783	4,857	70,912	-	-	1,046	25,343	-	-	5,903	96,255
Home Energy Reports	3,692	5,706	26,852	26,852	91,619	91,619	-	-	-	-	-	-	91,619	91,619
Residential Consumer Products	1,118	826	6,885	47,554	23,491	162,256	84	1,672	85	1,683	25	370	23,685	165,981
<b>Non-Income Eligible Residential SUBTOTAL</b>	<b>5,691</b>	<b>8,709</b>	<b>43,435</b>	<b>201,325</b>	<b>148,201</b>	<b>686,921</b>	<b>478</b>	<b>7,684</b>	<b>25,133</b>	<b>472,014</b>	<b>1,543</b>	<b>36,614</b>	<b>175,356</b>	<b>1,203,233</b>
<b>Income Eligible Residential</b>														
Single Family - Income Eligible Services	480	501	3,314	38,506	11,306	131,383	958	11,562	11,178	214,399	63	1,121	23,505	358,466
Income Eligible Multifamily	49	445	1,538	24,309	5,247	82,943	-	-	1,239	25,915	-	-	6,486	108,858
<b>Income Eligible Residential SUBTOTAL</b>	<b>529</b>	<b>946</b>	<b>4,851</b>	<b>62,816</b>	<b>16,553</b>	<b>214,327</b>	<b>958</b>	<b>11,562</b>	<b>12,417</b>	<b>240,314</b>	<b>63</b>	<b>1,121</b>	<b>29,991</b>	<b>467,324</b>
<b>Commercial &amp; Industrial</b>														
Large Commercial New Construction	1,745	1,295	28,167	503,905	96,106	1,719,325	(97,390)	(1,931,228)	-	-	-	-	(1,285)	(211,904)
Large Commercial Retrofit	8,490	7,200	41,132	312,931	140,342	1,067,722	(34,444)	(227,197)	-	-	-	-	105,899	840,524
Small Business Direct Install	904	722	9,976	64,394	34,037	219,711	(8,030)	(48,183)	-	-	-	-	26,007	171,528
<b>C&amp;I SUBTOTAL</b>	<b>11,139</b>	<b>9,216</b>	<b>79,275</b>	<b>881,230</b>	<b>270,485</b>	<b>3,006,758</b>	<b>(139,864)</b>	<b>(2,206,608)</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>130,621</b>	<b>800,149</b>
<b>TOTAL</b>	<b>17,359</b>	<b>18,872</b>	<b>127,561</b>	<b>1,145,371</b>	<b>435,239</b>	<b>3,908,006</b>	<b>(138,428)</b>	<b>(2,187,363)</b>	<b>37,550</b>	<b>712,329</b>	<b>1,607</b>	<b>37,735</b>	<b>335,967</b>	<b>2,470,707</b>

Notes:  
1) Lifetime savings are equal to annual savings multiplied by the expected life of measures expected to be installed in each program.

**Table E-6B  
National Grid  
Summary of 2022 Demand Response Benefits and Savings**

	Benefits (000's)															Load Reduction (MW)	MWh Saved		
	Total	Total (Economic Excluded)	Summer Generation	Capacity				Energy					Non Electric Resource	Societal			Summer	Annual	Lifetime
				DRIVE	Trans	Dist	Reliability	Winter		Summer		Energy DRIVE		Carbon	Economic				
								Peak	Off Peak	Peak	Off Peak								
<b>Non-Income Eligible Residential</b>																			
Residential Connected	\$4,382	\$2,884	\$238	\$976	\$729	\$722	\$214	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3	\$1,496	7.4	59.4	59.4
<b>Commercial &amp; Industrial</b>																			
Commercial Connected	\$20,226	\$10,621	\$646	\$2,651	\$3,207	\$3,177	\$941	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$9,605		32.4	0.0	0.0
<b>TOTAL</b>	<b>\$24,608</b>	<b>\$13,505</b>	<b>\$884</b>	<b>\$3,627</b>	<b>\$3,936</b>	<b>\$3,899</b>	<b>\$1,154</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$3</b>	<b>\$11,101</b>	<b>39.8</b>	<b>59.4</b>	<b>59.4</b>	

Table E-7  
National Grid  
Comparison of 2022 and 2021 Goals and Tracking

	Proposed 2022 Goal		Proposed 2022 Tracking				Approved 2021				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)
<b>Non-Income Eligible Residential</b>														
Residential New Construction	14,947		867	74	97,027	462	18,088	979	66		-3,141	-113	8	
ENERGY STAR® HVAC	77,717		4,620	240	338,161	5,229	51,309	3,181	204		26,408	1,439	36	
EnergyWise	13,472		2,789	424	414,190	12,000	14,385	2,841	445		-913	-52	-20	
EnergyWise Multifamily	20,783		1,424	143	96,255	3,600	16,307	1,240	158		4,476	183	-15	
Home Energy Reports	26,852		26,852	3,692	91,619	323,248	26,852	26,852	3,692		0	0	0	
ENERGY STAR® Lighting	0		0	0	0	0	26,801	11,533	1,872		-26,801	-11,533	-1,872	
Residential Consumer Products	47,554		6,885	1,118	165,981	34,692	38,130	5,926	1,019		9,424	958	100	
Residential ConnectedSolutions		7,365				4,178				5,431		0		1,934
<b>Non-Income Eligible Residential SUBTOTAL</b>	<b>201,325</b>	<b>7,365</b>	<b>43,435</b>	<b>5,691</b>	<b>1,203,233</b>	<b>383,409</b>	<b>191,872</b>	<b>52,553</b>	<b>7,455</b>	<b>5,431</b>	<b>9,453</b>	<b>-9,118</b>	<b>-1,764</b>	<b>1,934</b>
<b>Income Eligible Residential</b>														
Single Family - Income Eligible Services	38,506		3,314	480	358,466	3,583	36,909	3,120	457		1,598	194	22	
Income Eligible Multifamily	24,309		1,538	49	108,858	3,600	22,545	1,554	70		1,764	-16	-21	
<b>Income Eligible Residential SUBTOTAL</b>	<b>62,816</b>		<b>4,851</b>	<b>529</b>	<b>467,324</b>	<b>7,183</b>	<b>59,454</b>	<b>4,674</b>	<b>527</b>		<b>3,361</b>	<b>177</b>	<b>2</b>	
<b>Commercial &amp; Industrial</b>														
Large Commercial New Construction	503,905		28,167	1,745	-211,904	96	189,441	11,837	1,856		314,465	16,330	-111	
Large Commercial Retrofit	312,931		41,132	8,490	840,524	2,239	744,562	59,496	11,648		-431,630	-18,364	-3,158	
Small Business Direct Install	64,394		9,976	904	171,528	490	105,134	9,696	1,134		-40,740	<b>280</b>	<b>-230</b>	
Commercial ConnectedSolutions		32,400				180				33,600				-1,200
<b>C&amp;I SUBTOTAL</b>	<b>881,230</b>	<b>32,400</b>	<b>79,275</b>	<b>11,139</b>	<b>800,149</b>	<b>3,005</b>	<b>1,039,136</b>	<b>81,029</b>	<b>14,638</b>	<b>33,600</b>	<b>-157,906</b>	<b>-1,754</b>	<b>-3,500</b>	<b>-1,200</b>
<b>TOTAL</b>	<b>1,145,371</b>	<b>39,765</b>	<b>127,561</b>	<b>17,359</b>	<b>2,470,707</b>	<b>393,597</b>	<b>1,290,462</b>	<b>138,256</b>	<b>22,621</b>	<b>39,031</b>	<b>-145,091</b>	<b>-10,695</b>	<b>-5,262</b>	<b>734</b>

Notes:  
(1) Planned 2022 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 and Home Energy Reports, therefore the population reached can be more than 100%.

**Table E-8A**  
**National Grid**  
**2022 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
<b>Non-Income Eligible Residential</b>																		
Residential New Construction	\$48	\$43	\$94	\$93	\$1	\$369	\$485	\$144	\$110	\$289	\$0	\$0	\$325	\$1,304	\$66	\$833	\$28	\$2,158
ENERGY STAR® HVAC	\$182	\$159	\$357	\$353	\$2	\$2,398	\$2,987	\$221	\$185	\$1,833	\$0	\$55	\$1,639	-\$16	\$384	\$3,762	\$131	\$6,371
EnergyWise	\$148	\$162	\$291	\$288	\$2	\$267	\$273	\$178	\$157	\$314	\$0	\$0	\$8,984	\$233	\$1,267	\$3,605	\$458	\$14,662
EnergyWise Multifamily	\$94	\$79	\$182	\$180	\$1	\$595	\$742	\$106	\$89	\$464	\$0	\$0	\$632	\$48	\$1,931	\$1,004	\$43	\$4,383
Home Energy Reports	\$207	\$450	\$365	\$362	\$6	\$646	\$531	\$251	\$183	\$640	\$0	\$0	\$0	\$0	\$0	\$1,736	\$23	\$2,641
Residential Consumer Products	\$335	\$719	\$752	\$745	\$9	\$903	\$981	\$485	\$487	\$1,496	\$0	\$15	\$42	\$41	\$4	\$2,663	\$37	\$4,312
<b>Income Eligible Residential SUBTOTAL</b>	<b>\$1,014</b>	<b>\$1,612</b>	<b>\$2,041</b>	<b>\$2,022</b>	<b>\$21</b>	<b>\$5,178</b>	<b>\$5,999</b>	<b>\$1,385</b>	<b>\$1,210</b>	<b>\$5,036</b>	<b>\$0</b>	<b>\$70</b>	<b>\$11,622</b>	<b>\$1,609</b>	<b>\$3,652</b>	<b>\$13,603</b>	<b>\$720</b>	<b>\$34,528</b>
<b>Income Eligible Residential</b>																		
Single Family - Income Eligible Services	\$275	\$253	\$541	\$536	\$3	\$874	\$967	\$410	\$423	\$801	\$273	\$77	\$5,282	\$386	\$10,935	\$3,428	\$295	\$11,408
Income Eligible Multifamily	\$22	\$19	\$43	\$43	\$0	\$789	\$1,008	\$30	\$25	\$554	\$340	\$0	\$642	\$53	\$3,618	\$1,137	\$45	\$4,208
<b>Income Eligible Residential SUBTOTAL</b>	<b>\$297</b>	<b>\$271</b>	<b>\$584</b>	<b>\$578</b>	<b>\$3</b>	<b>\$1,663</b>	<b>\$1,975</b>	<b>\$440</b>	<b>\$448</b>	<b>\$1,354</b>	<b>\$613</b>	<b>\$77</b>	<b>\$5,924</b>	<b>\$439</b>	<b>\$14,553</b>	<b>\$4,565</b>	<b>\$340</b>	<b>\$15,616</b>
<b>Commercial &amp; Industrial</b>																		
Large Commercial New Construction	\$1,336	\$1,155	\$2,616	\$2,592	\$14	\$14,396	\$17,982	\$3,158	\$1,916	\$10,681	\$0	-\$16,122	\$0	\$4	-\$2,160	\$8,198	-\$1,080	\$42,579
Large Commercial Retrofit	\$2,776	\$5,530	\$6,172	\$6,115	\$69	\$6,592	\$4,728	\$4,490	\$2,800	\$9,914	\$0	-\$1,887	\$0	\$30	\$10,381	\$15,134	\$67	\$145,768
Small Business Direct Install	\$248	\$599	\$569	\$564	\$7	\$1,395	\$807	\$1,018	\$519	\$2,089	\$0	-\$400	\$0	\$0	\$1,942	\$3,226	\$14	\$17,670
<b>C&amp;I SUBTOTAL</b>	<b>\$4,360</b>	<b>\$7,284</b>	<b>\$9,357</b>	<b>\$9,271</b>	<b>\$91</b>	<b>\$22,383</b>	<b>\$23,516</b>	<b>\$8,666</b>	<b>\$5,235</b>	<b>\$22,683</b>	<b>\$0</b>	<b>-\$18,410</b>	<b>\$0</b>	<b>\$34</b>	<b>\$10,162</b>	<b>\$26,558</b>	<b>-\$999</b>	<b>\$206,016</b>
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 2022 Benefit-Cost Model, reflects benefits in Table E-6

**Table E-8B**  
**National Grid**  
**2022 Electric PIM Costs**

	(1)	(2)	(3)
	Costs (\$)		
	Eligible Spending Budget from Table E-3	Regulatory Costs	Total Costs for PIM Calculations
<b>Non-Income Eligible Residential SUBTOTAL</b>	\$31,171,270	\$2,728,639	\$33,899,909
<b>Income Eligible Residential SUBTOTAL</b>	\$16,801,227	\$2,728,639	\$19,529,866
<b>C&amp;I SUBTOTAL</b>	\$54,713,968	\$2,728,639	\$57,442,607
Included in PIM? (Y/N)	Y	Y	Y

**Notes**

Source is Table E-2 and E-3. Regulatory costs allocated equally to each sector.

Table E-8C  
National Grid  
2022 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*(j)	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	\$25,517,341	\$6,650,701	\$33,899,909	-\$1,731,867	\$2,000,000	\$500,000	25%	a. Achievement < 25% b. 25% ≤ Achievement < 50% c. 50% ≤ Achievement < 75% d. 75% ≤ Achievement e. Spending > Planned Eligible Costs	a.B.0 b.Achievement/100 + 0.1 c.Achievement/100 + 0.25 d.B.0 e.See Boundary Rules	\$625,000	Yes
Income Eligible Residential	\$8,227,538	\$3,220,366	\$19,529,866	-\$8,081,961	\$2,000,000	\$500,000	25%			\$625,000	Yes
Commercial & Industrial	\$112,846,400	-\$9,187,728	\$57,442,607	\$46,216,065	\$46,216,065	\$5,500,000	12%			\$6,875,000	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	\$25,517,341	\$6,650,701	\$33,899,909	\$32,168,042	\$1,251,250	a. Adjusted Achievement < 65% b. 65% ≤ Adjusted Achievement < 95% c. 95% ≤ Adjusted Achievement	a. A b. (95-Adjusted Achievement)/30 c. B	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	\$8,227,538	\$3,220,366	\$19,529,866	\$11,447,904	\$715,000			
Commercial & Industrial	\$112,846,400	-\$9,187,728	\$57,442,607	N/A	N/A			

**Table E-9  
National Grid  
Revolving Loan Fund Projections**

<b>Large C&amp;I Revolving Loan Fund</b>		<b>Small Business Revolving Loan Fund</b>	
(1) Total Loan Fund Deposits Through 2021	\$ 18,547,780	(1) Total Loan Fund Deposits Through 2021	\$ 3,303,570
(2) Current Loan Fund Balance	\$ 7,208,593	(2) Current Loan Fund Balance	\$ 2,743,078
<i>Loans Paid Year-To-Date</i>	\$ 3,356,693	<i>Loans Paid Year-To-Date</i>	\$ 570,365
<i>Repayments Year-To-Date</i>	\$ 2,946,562	<i>Repayments Year-To-Date</i>	\$ 606,588
(3) Projected Additional Loans by Year End 2021	\$ 5,770,777	(3) Projected Additional Loans by Year End 2021	\$ 510,000
(4) Projected Additional Repayments by Year End 2021	\$ 2,453,636	(4) Projected Additional Repayments by Year End 2021	\$ 275,529
<b>(5) Projected Year End Loan Fund Balance 2021</b>	<b>\$ 3,891,451</b>	<b>(5) Projected Year End Loan Fund Balance 2021</b>	<b>\$ 2,508,608</b>
(6) 2022 Fund Injection	\$ 2,000,000	(6) 2022 Fund Injection	\$ -
<b>(7) Projected Loan Fund Balance, January 2022</b>	<b>\$ 5,891,451</b>	<b>(7) Projected Loan Fund Balance, January 2022</b>	<b>\$ 2,508,608</b>
(8) Projected Repayments throughout 2022	\$ 3,881,906	(8) Projected Repayments throughout 2022	\$ 245,746
(9) Estimated Loans in 2022	\$ 8,928,261	(9) Estimated Loans in 2022	\$ 1,500,000
<b>(10) Projected Year End Loan Fund Balance 2022</b>	<b>\$ 845,095</b>	<b>(10) Projected Year End Loan Fund Balance 2022</b>	<b>\$ 1,254,353</b>
<b>Public Sector Revolving Loan Fund</b>		<b>Efficient Buildings Fund</b>	
(1) Total Loan Fund Deposits Through 2021	\$ 54,065	(1) Energy Efficiency Funds allocated to EBF through 2021	\$ 27,087,113
(2) Current Loan Fund Balance	\$ 34,124	(2) Total EBF Loans Outstanding	\$ 55,075,045
<i>Funds returned to OER</i>	\$ -		
<i>Repayments Year-To-Date</i>	\$ 34,052		
(3) Projected Additional Loans by Year End	\$ -		
(4) Projected Additional Repayments by Year End	\$ 15,523		
<b>(5) Projected Year End Loan Fund Balance 2021</b>	<b>\$ 49,647</b>		
(6) 2022 Fund Injection	\$ -		
<b>(7) Projected Loan Fund Balance, January 2022</b>	<b>\$ 49,647</b>		
(8) Projected Repayments throughout 2022	\$ 2,945		
(9) Estimated Loans in 2022	\$ -		
<b>(10) Projected Year End Loan Fund Balance 2022</b>	<b>\$ 52,592</b>		

Notes

- 1 Funding injections since loan funds began. Net of any adjustments.
- 2 Current Loan Fund Balance is through July 2021; it includes all loans and repayments made by July 2021. Public Sector Revolving Loan Fund reduced by transfers to RI PEP Incentives. EBF reports in terms of loans outstanding.
- 3 Projected Loans from July to Year-End 2021 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 2022 instead of 2021.
- 4 Projected Repayments from June to Year-End 2021 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 2021 over 12 month period; repayments accumulate over time and may vary widely.
- 9 Amount projected to be lent to customers in 2022
- 10 Equal to (7) + (8) - (9).
- Efficient Buildings Fund - The 2022 Annual Plan only includes two values for EBF: 1) The Energy Efficiency Funds allocated to EBF through 2021 and also assumes that the \$5M allocated to EBF for 2021 will be transferred to RIIB in 2021. 2) Total EBF Loans Outstanding as of July 2021. 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 2022 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 2022 will go to EBF.

**Table E-10**  
**National Grid**  
**Rhode Island Electric Energy Efficiency 2003 - 2022**  
**\$(000)**

<b>Electric</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013<sup>(4)</sup></b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020<sup>(5)</sup></b>	<b>2021<sup>(6)</sup></b>	<b>2022<sup>(5)</sup></b>
Energy Efficiency Budget (\$Million) <sup>(1)</sup>	\$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	\$122.6
Spending Budget (\$Million) <sup>(2)</sup>	\$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	\$102.7
Actual Expenditures (\$Million) <sup>(3)</sup>	\$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		
Incentive Percentage <sup>(10)</sup>	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
Target Incentive <sup>(11)</sup>	\$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	\$5,500,000
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		
Annual Summer Demand kW Savings Goal Achieved (%)				106%	106%	113%	142%	78%	71%	83%	114%	78%	112%	101%	103%	116%	98%	79%		
Annual MWh Energy Savings Goal Achieved (%)				111%	102%	111%	115%	107%	94%	93%	99%	105%	115%	107%	115%	110%	98%	88%		
Energy Efficiency Program Charge (\$/kWh) <sup>(7)</sup>	\$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	\$0.01637
Annual Cost to 500 kWh/month Residential Customer w/o tax <sup>(8)</sup>	\$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	\$98.22
Annual Cost to 500 kWh/month Residential Customer w/ tax <sup>(9)</sup>	\$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	\$102.31

**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) 2021 values are planned.
- (6) 2022 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.
- (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 due to new performance incentive mechanism developed for the 2021 Annual Plan. See Section 11 of the Main Text of the 2022 Annual Plan for additional details.
- (11) Target incentive is calculated in the same way as in 2021 in order to provide a more accurate estimate of the energy efficiency surcharge.