

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

	<u>Projections by Sector</u>			Total
	Income Eligible Residential	Non-Income Eligible Residential	Commercial & Industrial	
(1) Projected Budget (from G-2):	\$9,351.9	\$15,710.0	\$11,659.2	\$36,721.1
Sources of Other Funding:				
(2) Projected Year-End 2021 Fund Balance and Interest:	\$0.00	(\$8,654.93)	\$2,390.70	(\$6,264.23)
(3) Total Other Funding:	\$0.00	(\$8,654.93)	\$2,390.70	(\$6,264.23)
(4) Customer Funding Required:	\$9,351.95	\$24,364.88	\$9,268.54	\$42,985.40
(5) Forecasted Firm Dth Volume	1,685,277	18,876,534	19,843,867	40,405,678
(6) Forecasted Non Firm Dth Volume			261,695	261,695
(7) Less: Exempt DG Customers			(1,244,516)	(1,244,516)
(8) Forecasted Dth Volume:	1,685,277	18,876,534	18,861,047	39,422,858
Average Energy Efficiency Program Charge per Dth				
(9) excluding Uncollectible Recovery:				\$1.090
(10) Proposed Energy Efficiency Program Charge per Dth excluding Uncollectible Recovery	\$1.285	\$1.285	\$0.878	
(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:	\$1.310	\$1.310	\$0.895	
(13) Currently Effective Energy Efficiency Program Charge per Dth	\$0.871	\$0.871	\$0.596	
(14) Adjustment to Reflect Fully Reconciling Funding Mechanism	\$0.439	\$0.439	\$0.299	

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 2022 EE Plan Table G-1. The Company proposes to refile this table with updated Fund Balance projections on December 1, 2021 as proposed in Section 12.1 of the Plan's Main Text.

(10) As agreed to by the settling parties, 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. The C&I charge includes collection of \$6.78 million of which \$4.07 million will be allocated to the low income sector and \$2.71 million to the residential sector.

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

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

	Program Planning and Administration	Marketing	Cost of services and product rebates/incentives provided to customers	Sales, Technical Assistance and Training	Evaluation & Market Research	Performance Incentive	Grand Total
Non-Income Eligible Residential:							
ENERGY STAR® HVAC	\$114.0	\$216.1	\$3,317.4	\$237.3	\$90.4	\$0.0	\$3,975.2
EnergyWise	\$194.7	\$73.8	\$7,037.7	\$1,168.8	\$167.3	\$0.0	\$8,642.3
EnergyWise Multifamily	\$47.5	\$69.8	\$1,216.0	\$153.6	\$15.1	\$0.0	\$1,502.0
Home Energy Reports	\$9.6	\$0.0	\$0.0	\$429.1	\$3.2	\$0.0	\$442.0
Residential Pilots	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Residential New Construction	\$34.5	\$2.2	\$332.2	\$135.0	\$88.8	\$0.0	\$592.6
Comprehensive Marketing - Residential	\$0.1	\$67.5	\$0.0	\$0.0	\$0.0	\$0.0	\$67.6
Community Based Initiatives - Residential	\$11.2	\$41.7	\$32.1	\$0.0	\$0.0	\$0.0	\$85.0
Residential Performance Incentive	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Subtotal - Non-Income Eligible Residential	\$411.6	\$471.1	\$11,935.3	\$2,123.8	\$364.8	\$0.0	\$15,306.7
Income Eligible Residential:							
Single Family - Income Eligible Services	\$131.1	\$25.9	\$5,016.4	\$1,165.6	\$28.1	\$0.0	\$6,367.1
Income Eligible Multifamily	\$70.8	\$10.9	\$2,474.5	\$362.6	\$30.0	\$0.0	\$2,948.8
Income Eligible Performance Incentive	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Subtotal - Income Eligible Residential	\$201.9	\$36.8	\$7,490.9	\$1,528.3	\$58.1	\$0.0	\$9,315.9
Commercial & Industrial							
Large Commercial New Construction	\$115.0	\$196.1	\$1,623.2	\$1,061.9	\$230.7	\$0.0	\$3,227.0
Large Commercial Retrofit	\$199.2	\$334.2	\$2,395.4	\$1,590.6	\$165.6	\$0.0	\$4,685.1
Small Business Direct Install	\$5.6	\$37.9	\$269.9	\$44.3	\$1.8	\$0.0	\$359.5
Commercial & Industrial Multifamily	\$25.9	\$33.4	\$756.0	\$141.9	\$6.7	\$0.0	\$963.9
Commercial Pilots	\$0.0	\$7.5	\$181.5	\$25.0	\$5.0	\$0.0	\$219.0
Finance Costs	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Community Based Initiatives - C&I	\$3.7	\$13.9	\$10.7	\$0.0	\$0.0	\$0.0	\$28.3
Commercial & Industrial Performance Incentive	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$1,700.0	\$1,700.0
Subtotal - Commercial & Industrial	\$349.5	\$623.1	\$5,236.7	\$2,937.2	\$409.8	\$1,700.0	\$11,256.3
Regulatory							
EERMC	\$421.1	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$421.1
OER	\$421.1	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$421.1
Subtotal - Regulatory	\$842.2	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$842.2
Grand Total	\$1,805.2	\$1,131.0	\$24,663.0	\$6,589.3	\$832.7	\$1,700.0	\$36,721.1

Notes:

- (1) OER and EERMC is equal to 2% of total collections from customers' Energy Efficiency Program Charge, reduced by 2%.
- (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.

**Table G-3
National Grid
Derivation of the 2022 Spending & Implementation Budgets (\$000)**

	Proposed 2022 Budget From G-2 (\$000)	Outside Finance and Stakeholder Oversight Costs (\$000)	Performance Incentive (\$000)	Eligible Sector Spending Budget for Performance Incentive on G-9 (\$000) ¹	Implementation Expenses for Cost-Effectiveness on G-5 (\$000) ²
Non-Income Eligible Residential					
ENERGY STAR® HVAC	\$3,975.2				\$3,975.2
EnergyWise	\$8,642.3				\$8,642.3
EnergyWise Multifamily	\$1,502.0				\$1,502.0
Home Energy Reports	\$442.0				\$442.0
Residential Pilots	\$0.0				\$0.0
Residential New Construction	\$592.6				\$592.6
Comprehensive Marketing - Residential	\$67.6				\$67.6
Community Based Initiatives - Residential	\$85.0				\$85.0
Residential Performance Incentive	\$0.0		\$0.0		\$0.0
Subtotal - Non-Income Eligible Residential	\$15,306.7	\$0.0	\$0.0	\$15,282.1	\$15,306.7
Income Eligible Residential					
Single Family - Income Eligible Services	\$6,367.1				\$6,367.1
Income Eligible Multifamily	\$2,948.8				\$2,948.8
Income Eligible Performance Incentive	\$0.0		\$0.0		\$0.0
Subtotal - Income Eligible Residential	\$9,315.9	\$0.0	\$0.0	\$9,315.9	\$9,315.9
Commercial & Industrial					
Large Commercial New Construction	\$3,227.0				\$3,227.0
Large Commercial Retrofit	\$4,685.1				\$4,685.1
Small Business Direct Install	\$359.5				\$359.5
Commercial & Industrial Multifamily	\$963.9				\$963.9
Commercial Pilots	\$219.0				\$219.0
Finance Costs	\$0.0	\$0.0			\$0.0
Community Based Initiatives - C&I	\$28.3				\$28.3
Commercial & Industrial Performance Incentive	\$1,700.0		\$1,700.0		\$0.0
Subtotal - Commercial & Industrial	\$11,256.3	\$0.0	\$1,700.0	\$9,306.5	\$9,556.3
Regulatory					
EERMC	\$421.1	\$421.1			\$421.1
OER	\$421.1	\$421.1			\$421.1
Subtotal - Regulatory	\$842.2	\$842.2			\$842.2
Grand Total	\$36,721.1	\$842.2	\$1,700.0	\$33,904.5	\$35,021.1

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

	Proposed Budget 2022 from G-2	2021 Approved Gas Budget	Difference
Non-Income Eligible Residential			
ENERGY STAR® HVAC	\$3,975.2	\$3,673.0	\$302.2
EnergyWise	\$8,642.3	\$8,117.6	\$524.7
EnergyWise Multifamily	\$1,502.0	\$1,491.6	\$10.4
Home Energy Reports	\$442.0	\$450.9	-\$8.9
Residential Pilots	\$0.0	\$0.0	\$0.0
Residential New Construction	\$592.6	\$674.8	-\$82.2
Comprehensive Marketing - Residential	\$67.6	\$64.8	\$2.8
Community Based Initiatives - Residential	\$85.0	\$75.8	\$9.1
Residential Performance Incentive	\$0.0	\$595.0	-\$595.0
Subtotal - Non-Income Eligible Residential	\$15,306.7	\$15,143.5	\$163.1
Income Eligible Residential			
Single Family - Income Eligible Services	\$6,367.1	\$5,952.3	\$414.8
Income Eligible Multifamily	\$2,948.8	\$3,009.4	-\$60.6
Income Eligible Performance Incentive	\$0.0	\$425.0	-\$425.0
Subtotal - Income Eligible Residential	\$9,315.9	\$9,386.8	-\$70.8
Commercial & Industrial			
Large Commercial New Construction	\$3,227.0	\$2,634.2	\$592.8
Large Commercial Retrofit	\$4,685.1	\$5,054.1	-\$369.0
Small Business Direct Install	\$359.5	\$332.7	\$26.8
Commercial & Industrial Multifamily	\$963.9	\$953.2	\$10.7
Commercial Pilots	\$219.0	\$215.8	\$3.2
Finance Costs	\$0.0	\$0.0	\$0.0
Community Based Initiatives - C&I	\$28.3	\$24.8	\$3.5
Commercial & Industrial Performance Incentive	\$1,700.0	\$680.0	\$1,020.0
Subtotal Commercial & Industrial	\$11,256.3	\$9,894.8	\$1,361.5
Regulatory			
EERMC	\$421.1	\$275.1	\$146.0
OER	\$421.1	\$275.1	\$146.0
Subtotal Regulatory	\$842.2	\$550.1	\$292.1
TOTAL BUDGET	\$36,721.1	\$34,975.2	\$1,745.9

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
National Grid
Calculation of 2022 Program Year Cost-Effectiveness
All Dollar Values in (\$000)

	Rhode Island Benefit/ Cost	Total Benefit	Program Implementation Expenses	Customer Contribution	Performance Incentive	\$/Lifetime MMBtu
Non-Income Eligible Residential						
Energy Star® HVAC	1.00	\$8,138.2	\$3,975.2	\$4,183.2		\$17.35
EnergyWise	1.13	\$10,480.4	\$8,642.3	\$670.2		\$19.46
EnergyWise MultiFamily	3.42	\$6,316.1	\$1,502.0	\$344.0		\$12.55
Home Energy Reports	3.87	\$1,712.1	\$442.0	\$0.0		\$4.72
Residential New Construction	0.95	\$1,169.3	\$592.6	\$639.8		\$16.00
Comprehensive Marketing - Residential			\$67.6			
Community Based Initiatives - Residential			\$85.0			
Residential Pilots			\$0.0			
Non-Income Eligible Residential Subtotal	1.32	\$27,816.1	\$15,306.7	\$5,837.3	\$ -	\$16.70
Income Eligible Residential						
Single Family - Income Eligible Services	2.04	\$12,983.0	\$6,367.1	\$0.0		\$29.09
Income Eligible Multifamily	2.68	\$7,913.7	\$2,948.8	\$0.0		\$9.61
Income Eligible Residential Subtotal	2.24	\$20,896.8	\$9,315.9	\$0.0	\$ -	\$17.72
Large Commercial & Industrial						
Large Commercial New Construction	5.55	\$19,466.8	\$3,227.0	\$278.7		\$4.22
Large Commercial Retrofit	4.35	\$32,354.9	\$4,685.1	\$2,745.5		\$6.14
Small Business Direct Install	2.02	\$869.6	\$359.5	\$71.0		\$11.24
Commercial & Industrial Multifamily	5.82	\$6,098.6	\$963.9	\$84.0		\$7.99
Commercial Pilots			\$219.0			
Community Based Initiatives - C&I			\$28.3			
Finance Costs			\$0.0			
Commercial & Industrial Subtotal	4.07	\$58,789.9	\$9,556.3	\$3,179.2	\$ 1,700.0	\$5.76
Regulatory						
EERMC			\$421.1			
OER			\$421.1			
Regulatory Subtotal			\$842.2			
Grand Total	2.35	\$107,502.7	\$35,021.1	\$9,016.5	\$ 1,700.0	\$11.00

Notes:

- (1) RI Test B/C Test = Total Benefits from Table G-6 excluding Economic Benefits / Program Implementation Expenses from Table G-3. Also includes effects of free-ridership and spillover.
- (2) For Implementation Expenses derivation, see Table G-3.
- (3) EnergyWise customer cost is negative due to a high free-ridership rate. Any financial incentives paid to free-riders are counted as a cost because the Company incurred those costs as part of the overall cost of the Plan regardless of whether the participant is free-rider or not. Therefore the Company reduces benefits and the customer cost by the net-to-gross ratio but not the incentives.

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

	Rhode Island Benefit/ Cost	Total Benefit	Program Implementation Expenses	Customer Contribution	Performance Incentive	\$/Lifetime MMBtu
Non-Income Eligible Residential						
Energy Star® HVAC	1.40	\$11,437.7	\$3,975.2	\$4,183.2		\$17.35
EnergyWise	2.06	\$19,209.2	\$8,642.3	\$670.2		\$19.46
EnergyWise MultiFamily	4.75	\$8,764.3	\$1,502.0	\$344.0		\$12.55
Home Energy Reports	4.93	\$2,180.5	\$442.0	\$0.0		\$4.72
Residential New Construction	1.05	\$1,299.7	\$592.6	\$639.8		\$16.00
Comprehensive Marketing - Residential			\$67.6			
Community Based Initiatives - Residential			\$85.0			
Residential Pilots			\$0.0			
Non-Income Eligible Residential Subtotal	2.03	\$42,891.4	\$15,306.7	\$5,837.3	\$ -	\$16.70
Income Eligible Residential						
Single Family - Income Eligible Services	3.03	\$19,286.5	\$6,367.1	\$0.0		\$29.09
Income Eligible Multifamily	4.23	\$12,484.4	\$2,948.8	\$0.0		\$9.61
Income Eligible Residential Subtotal	3.41	\$31,770.9	\$9,315.9	\$0.0	\$ -	\$17.72
Large Commercial & Industrial						
Large Commercial New Construction	6.86	\$24,049.1	\$3,227.0	\$278.7		\$4.22
Large Commercial Retrofit	5.95	\$44,208.2	\$4,685.1	\$2,745.5		\$6.14
Small Business Direct Install	3.48	\$1,498.7	\$359.5	\$71.0		\$11.24
Commercial & Industrial Multifamily	7.56	\$7,920.4	\$963.9	\$84.0		\$7.99
Commercial Pilots			\$219.0			
Community Based Initiatives - C&I			\$28.3			
Finance Costs			\$0.0			
Commercial & Industrial Subtotal	5.38	\$77,676.3	\$9,556.3	\$3,179.2	\$ 1,700.0	\$5.76
Regulatory						
EERMC			\$421.1			
OER			\$421.1			
Regulatory Subtotal			\$842.2			
Grand Total	3.33	\$152,338.6	\$35,021.1	\$9,016.5	\$ 1,700.0	\$11.00

Notes:

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

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

(3) EnergyWise customer cost is negative due to a high free-ridership rate. Any financial incentives paid to free-riders are counted as a cost because the Company incurred those costs as part of the overall cost of the Plan regardless of whether the participant is free-rider or not. Therefore the Company reduces benefits and the customer cost by the net-to-gross ratio but not the incentives.

Table G-5A
National Grid
Calculation of 2022 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	0.59	\$4,836.7	\$3,975.2	\$4,183.2		\$17.4
EnergyWise	0.82	\$7,614.4	\$8,642.3	\$670.2		\$19.5
EnergyWise MultiFamily	2.89	\$5,328.2	\$1,502.0	\$344.0		\$12.6
Home Energy Reports	1.70	\$749.9	\$442.0	\$0.0		\$4.7
Residential New Construction	0.55	\$682.6	\$592.6	\$639.8		\$16.0
Comprehensive Marketing - Residential			\$67.6			\$0.0
Community Based Initiatives - Residential			\$85.0			\$0.0
Residential Pilots			\$0.0			\$0.0
Residential Workforce Development			\$0.0			\$0.0
Non-Income Eligible Residential Subtotal	0.91	\$19,211.8	\$15,306.7	\$5,837.3	\$0.0	\$16.7
Income Eligible Residential						
Single Family - Income Eligible Services	1.81	\$11,526.7	\$6,367.1	\$0.0		\$29.1
Income Eligible Multifamily	2.07	\$6,095.4	\$2,948.8	\$0.0		\$9.6
Income Eligible Workforce Development			\$0.0			\$0.0
Income Eligible Residential Subtotal	1.89	\$17,622.0	\$9,315.9	\$0.0	\$0.0	\$17.7
Large Commercial & Industrial						
Large Commercial New Construction	3.84	\$13,456.4	\$3,227.0	\$278.7		\$4.2
Large Commercial Retrofit	3.00	\$22,274.3	\$4,685.1	\$2,745.5		\$6.1
Small Business Direct Install	1.28	\$550.3	\$359.5	\$71.0		\$11.2
Commercial & Industrial Multifamily	4.89	\$5,124.7	\$963.9	\$84.0		\$8.0
Commercial Pilots			\$219.0	\$0.0		\$0.0
Community Based Initiatives - C&I			\$28.3	\$0.0		\$0.0
Finance Costs			\$0.0	\$0.0		\$0.0
Commercial Workforce Development			\$73.5	\$0.0		\$0.0
Commercial & Industrial Subtotal	2.87	\$41,405.7	\$9,556.3	\$3,179.2	\$1,700.0	\$5.8
Regulatory						
EERMC			\$421.1			
OER			\$421.1			
Regulatory Subtotal			\$842.2			
Grand Total	1.71	\$78,239.5	\$35,021.1	\$9,016.5	\$1,700.0	\$11.0

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.

(3) Energywise cost is negative due to a high free-ridership rate. Any financial incentives paid to free-riders are counted as a cost because the Company incurred those costs as part of the overall cost of the Plan regardless of whether the participant is free-rider or not. Therefore the Company reduces benefits and the customer cost by the net-to-gross ratio but not the incentives.

Table G-6
National Grid
Summary of 2022 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	Other Resource	Non Resource	Carbon	NOx	Economic
										Winter Peak	Winter Off Peak	Summer Peak	Summer Off Peak							
Non-Income Eligible Residential																				
EnergyWise	\$19,209	\$10,480	\$4,123	\$33	\$58	\$101	\$75	\$66	\$5	\$47	\$53	\$48	\$41	\$35	\$0	\$51	\$2,878	\$2,554	\$312	\$8,729
Energy Star® HVAC	\$11,438	\$8,138	\$3,992	\$45	\$8	\$23	\$11	\$10	\$1	-\$9	-\$8	\$5	\$4	-\$3	\$0	\$170	\$587	\$2,989	\$312	\$3,299
EnergyWise Multifamily	\$8,764	\$6,316	\$1,265	\$13	\$7	\$17	\$10	\$9	\$1	\$1	\$1	\$6	\$5	\$3	\$0	\$43	\$3,948	\$891	\$97	\$2,448
Home Energy Reports	\$2,181	\$1,712	\$725	\$25	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$898	\$64	\$468
Residential New Construction	\$1,300	\$1,169	\$669	\$7	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$7	\$0	\$436	\$51	\$130
Non-Income Eligible Residential SUBTOTAL	\$42,891	\$27,816	\$10,774	\$124	\$74	\$141	\$96	\$84	\$7	\$39	\$46	\$58	\$50	\$35	\$0	\$270	\$7,413	\$7,769	\$836	\$15,075
Income Eligible Residential																				
Single Family - Income Eligible Services	\$19,287	\$12,983	\$1,923	\$18	\$25	\$49	\$33	\$29	\$2	\$29	\$34	\$19	\$17	\$24	\$0	\$0	\$9,323	\$1,311	\$146	\$6,303
Income Eligible Multifamily	\$12,484	\$7,914	\$2,672	\$22	\$4	\$13	\$6	\$5	\$1	\$1	\$0	\$3	\$3	\$2	\$0	\$52	\$3,311	\$1,617	\$201	\$4,571
Income Eligible Residential SUBTOTAL	\$31,771	\$20,897	\$4,596	\$41	\$29	\$63	\$38	\$34	\$3	\$30	\$35	\$22	\$20	\$26	\$0	\$52	\$12,634	\$2,928	\$347	\$10,874
Commercial & Industrial																				
Large Commercial New Construction	\$24,049	\$19,467	\$6,039	\$68	\$0	\$0	\$0	\$0	\$0	\$3	\$4	\$0	\$0	\$2	\$0	\$47	\$7,293	\$5,420	\$591	\$4,582
Large Commercial Retrofit	\$44,208	\$32,355	\$9,500	\$201	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$39	\$12,534	\$9,209	\$871	\$11,853
Small Business Direct Install	\$1,499	\$870	\$293	\$6	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$252	\$0	\$292	\$28	\$629
Commercial & Industrial Multifamily	\$7,920	\$6,099	\$1,069	\$14	\$4	\$13	\$6	\$5	\$1	\$1	\$0	\$3	\$2	\$2	\$0	\$26	\$3,979	\$881	\$93	\$1,822
Commercial & Industrial SUBTOTAL	\$77,676	\$58,790	\$16,901	\$289	\$4	\$13	\$6	\$5	\$1	\$3	\$4	\$3	\$2	\$4	\$0	\$364	\$23,806	\$15,801	\$1,583	\$18,886
Grand Total	\$152,339	\$107,503	\$32,271	\$453	\$107	\$216	\$140	\$123	\$11	\$72	\$84	\$83	\$72	\$66	\$0	\$686	\$43,854	\$26,498	\$2,765	\$44,836

**Table G-6A
National Grid
Summary of 2022 Impacts by Program**

	Gas Saved (MMBtu)	
	Annual	Lifetime
Non-Income Eligible Residential		
EnergyWise	20,850	478,550
Energy Star® HVAC	28,671	470,156
EnergyWise Multifamily	8,279	147,064
Home Energy Reports	93,548	93,548
Residential New Construction	4,111	77,018
Non-Income Eligible Residential SUBTOTAL	155,459	1,266,337
Income Eligible Residential		
Single Family - Income Eligible Services	10,942	218,847
Income Eligible Multifamily	13,653	306,783
Income Eligible Residential SUBTOTAL	24,596	525,630
Commercial & Industrial		
Large Commercial New Construction	54,068	831,093
Large Commercial Retrofit	138,407	1,210,300
Small Business Direct Install	3,830	38,296
Commercial & Industrial Multifamily	8,803	131,220
Commercial & Industrial SUBTOTAL	205,108	2,210,909
Grand Total	385,163	4,002,876

Notes:

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

**Table G-7
National Grid
Comparison of 2022 and 2021 Goals**

	Proposed 2022 Goal	Proposed 2022 Tracking		Approved 2021		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	478,550	20,850	1,761	476,550	20,869	2,001	-20
Energy Star® HVAC	470,156	28,671	3,218	667,485	38,345	-197,329	-9,674
EnergyWise Multifamily	147,064	8,279	4,000	148,675	8,633	-1,611	-354
Home Energy Reports	93,548	93,548	152,324	93,548	93,548	0	0
Residential New Construction	77,018	4,111	289	85,272	4,445	-8,253	-333
Non-Income Eligible Residential SUBTOTAL	1,266,337	155,459	161,593	1,471,530	165,840	-205,193	-10,380
Income Eligible Residential							
Single Family - Income Eligible Services	218,847	10,942	1,098	201,104	10,055	17,743	887
Income Eligible Multifamily	306,783	13,653	3,150	315,545	14,399	-8,762	-745
Income Eligible Residential SUBTOTAL	525,630	24,596	4,248	516,649	24,454	8,981	142
Commercial & Industrial							
Large Commercial New Construction	831,093	54,068	94	437,398	27,631	393,694	26,437
Large Commercial Retrofit	1,210,300	138,407	60	1,455,776	187,283	-245,476	-48,876
Small Business Direct Install	38,296	3,830	107	48,861	4,886	-10,565	-1,057
Commercial & Industrial Multifamily	131,220	8,803	729	141,869	9,444	-10,649	-641
Commercial & Industrial SUBTOTAL	2,210,909	205,108	990	2,083,905	229,243	127,004	-24,135
TOTAL	4,002,876	385,163	166,831	4,072,084	419,537	-69,208	-34,374

Notes:

- (1) Participants can participate in more than one program, for example Home Energy Reports and EnergyWise.
- (2) 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 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
National Grid
2022 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	Other Resource	Non Resource	Carbon	NOx	Economic
									Winter Peak	Winter Off Peak	Summer Peak	Summer Off Peak							
Non-Income Eligible Residential																			
EnergyWise	\$4,123	\$33	\$0	\$58	\$101	\$75	\$66	\$5	\$47	\$53	\$48	\$41	\$35	\$0	\$51	\$2,878	\$2,554	\$312	\$8,729
Energy Star® HVAC	\$3,992	\$45	\$0	\$8	\$23	\$11	\$10	\$1	-\$9	-\$8	\$5	\$4	-\$3	\$0	\$170	\$587	\$2,989	\$312	\$3,299
EnergyWise Multifamily	\$1,265	\$13	\$0	\$7	\$17	\$10	\$9	\$1	\$1	\$1	\$6	\$5	\$3	\$0	\$43	\$3,948	\$891	\$97	\$2,448
Home Energy Reports	\$725	\$25	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$898	\$64	\$468	
Residential New Construction	\$669	\$7	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$7	\$0	\$436	\$51	\$130
Non-Income Eligible Residential SUBTOTAL	\$10,774	\$124	\$0	\$74	\$141	\$96	\$84	\$7	\$39	\$46	\$58	\$50	\$35	\$0	\$270	\$7,413	\$7,769	\$836	\$15,075
Income Eligible Residential																			
Single Family - Income Eligible Services	\$1,923	\$18	\$109	\$25	\$49	\$33	\$29	\$2	\$29	\$34	\$19	\$17	\$24	\$0	\$0	\$9,214	\$1,311	\$146	\$6,303
Income Eligible Multifamily	\$2,672	\$22	\$87	\$4	\$13	\$6	\$5	\$1	\$1	\$0	\$3	\$3	\$2	\$0	\$52	\$3,224	\$1,617	\$201	\$4,571
Income Eligible Residential SUBTOTAL	\$4,596	\$41	\$196	\$29	\$63	\$38	\$34	\$3	\$30	\$35	\$22	\$20	\$26	\$0	\$52	\$12,438	\$2,928	\$347	\$10,874
Commercial & Industrial																			
Large Commercial New Construction	\$6,039	\$68	\$0	\$0	\$0	\$0	\$0	\$0	\$3	\$4	\$0	\$0	\$2	\$0	\$47	\$7,293	\$5,420	\$591	\$4,582
Large Commercial Retrofit	\$9,500	\$201	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$39	\$12,534	\$9,209	\$871	\$11,853
Small Business Direct Install	\$293	\$6	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$252	\$0	\$292	\$28	\$629
Commercial & Industrial Multifamily	\$1,069	\$14	\$0	\$4	\$13	\$6	\$5	\$1	\$1	\$0	\$3	\$2	\$2	\$0	\$26	\$3,979	\$881	\$93	\$1,822
Commercial & Industrial SUBTOTAL	\$16,901	\$289	\$0	\$4	\$13	\$6	\$5	\$1	\$3	\$4	\$3	\$2	\$4	\$0	\$364	\$23,806	\$15,801	\$1,583	\$18,886
Grand Total	\$32,271	\$453	\$196	\$107	\$216	\$140	\$123	\$11	\$72	\$84	\$83	\$72	\$66	\$0	\$686	\$43,658	\$26,498	\$2,765	\$44,836
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 2022 Benefit-Cost Model, reflects benefits in Table G-6

**Table G-8B
National Grid
2022 Gas PIM Costs**

	(1)	(2)	(3)
	Costs (\$)		
	Eligible Spending Budget from Table G-3	Regulatory Costs	Total Costs for PIM Calculations
Non-Income Eligible Residential SUBTOTAL	\$15,282,060	\$280,743	\$15,562,804
Income Eligible Residential SUBTOTAL	\$9,315,942	\$280,743	\$9,596,686
Commercial & Industrial SUBTOTAL	\$9,306,503	\$280,743	\$9,587,246
Included in PIM? (Y/N)	Y	Y	Y

Notes

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

Table G-8C
National Grid
2022 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	\$10,897,463	\$450,548	\$15,562,804	-\$4,214,792	\$2,000,000	\$500,000	25%	a. Achievement < 25%	a. 0.0	\$625,000	Yes
Income Eligible Residential	\$4,831,889	\$175,828	\$9,596,686	-\$4,588,969	\$2,000,000	\$500,000	25%	b. 25% ≤ Achievement < 50% c. 50% ≤ Achievement < 75% d. 75% ≤ Achievement • Spending > Planned Eligible Costs	b. Achievement/100 + 0.1 c. Achievement/100 + 0.25 d. 0.0 • See Boundary Rules	\$625,000	Yes
Commercial & Industrial	\$17,190,058	\$204,628	\$9,587,246	\$7,807,440	\$7,807,440	\$1,700,000	22%			\$2,125,000	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% 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	\$10,897,463	\$450,548	\$15,562,804	\$11,348,011	\$386,750	a. Adjusted Achievement < 65%	a. 0.0	Performance Variance = "Actual Benefits" / "Design Achievement" - "Spending" / "Planned Eligible Cost"
Income Eligible Residential	\$4,831,889	\$175,828	\$9,596,686	\$5,007,717	\$276,250	b. 65% ≤ Adjusted Achievement < 95%	a. 0.05-Adjusted Achievement/30	If the absolute value (Performance Variance) ≤ 0.05, Then Adjusted Achievement = Actual Achievement Else Adjusted Achievement = Actual Achievement * (1+ Performance Variance)
Commercial & Industrial	\$17,190,058	\$204,628	\$9,587,246	N/A	N/A	c. 95% ≤ Adjusted Achievement	c. 0.0	

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

Large C&I Revolving Loan Fund

(1)	Total Loan Fund Deposits Through 2021	\$ 3,590,440
(2)	Current Loan Fund Balance	\$ 2,342,828
(3)	Projected Loans by Year End 2021	\$ 1,000,000
(4)	Projected Repayments by Year End 2021	\$ 251,950
(5)	Projected Year End Loan Fund Balance 2021	\$ 1,594,778
(6)	2022 Fund Injection	\$ -
(7)	Projected Loan Fund Balance, January 2022	\$ 1,594,778
(8)	Projected Repayments throughout 2022	\$ 402,039
(9)	Estimated Loans in 2022	\$ 1,200,000
(10)	Projected Year End Loan Fund Balance 2022	\$ 796,817

Notes

- 1 Funding injections since loan funds began. Net of any adjustments.
- 2 Current Loan Fund Balance is through May 2021
- 3 Projected Loans by Year End 2021 is estimated based on current commitments
- 4 Projected Repayments by Year End 2021 is estimated based on projected loans 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
National Grid
Rhode Island Gas Energy Efficiency 2007 - 2022
\$(000)

Gas	2007 ⁽⁴⁾	2008	2009	2010	2011 ⁽⁵⁾	2012	2013 ⁽⁶⁾	2014	2015	2016	2017	2018	2019	2020 ⁽⁷⁾	2021 ⁽⁸⁾	2022 ⁽⁸⁾
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	\$36.7
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	\$33.9
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
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	\$1,700,000
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	\$0.1310
C&I System Benefits Charge (\$/therm)	-	-	-	-	-	-	-	\$0.0492	\$0.0637	\$0.0487	\$0.0726	\$0.0671	\$0.0420	\$0.0704	\$0.0596	\$0.0895
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	\$110.83
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	\$114.26

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 12 of the Main Text of the 2022 Annual Plan for additional details.