

**Table E-1  
National Grid  
Electric DSM Funding Sources in 2019 by Sector  
\$(000)**

	<u>Projections by Sector</u>			<b>Total</b>
	<b>Income Eligible Residential</b>	<b>Non-Income Eligible Residential</b>	<b>Commercial &amp; Industrial</b>	
<b>(1) Projected Budget (from E-2):</b>	<b>\$16,372.57</b>	<b>\$45,677.83</b>	<b>\$49,394.83</b>	<b>\$111,445.24</b>
<b>Sources of Other Funding:</b>				
(2) Projected DSM Commitments at Year-End 2018:	\$0.00	\$0.00	\$0.00	\$0.00
(3) Projected Year-End 2018 Fund Balance and Interest:	\$0.00	(\$1,789.61)	\$5,957.77	\$4,168.15
(4) Projected FCM Payments from ISO-NE:	\$727.20	\$8,860.50	\$13,997.40	\$23,585.08
<b>(5) Total Other Funding:</b>	<b>\$727.20</b>	<b>\$7,070.89</b>	<b>\$19,955.17</b>	<b>\$27,753.23</b>
<b>(6) Customer Funding Required:</b>	<b>\$15,645.37</b>	<b>\$38,606.95</b>	<b>\$29,439.67</b>	<b>\$83,692.0</b>
<b>(7) Forecasted kWh Sales:</b>	<b>223,309,451</b>	<b>2,720,911,292</b>	<b>4,298,339,149</b>	<b>7,242,559,891</b>
(8) Energy Efficiency Program charge per kWh, excluding uncollectible recovery:				<b>\$0.01155</b>
(9) Proposed System Reliability Factor per kWh, excluding uncollectible recovery:				<u>-\$0.00002</u>
(10) Total Proposed Energy Efficiency Charge per kWh, excluding uncollectible recovery:				\$0.01153
(11) Currently Effective Uncollectible Rate				1.30%
<b>(12) Energy Efficiency Program charge per kWh, including uncollectible recovery:</b>				\$0.01168
(13) Currently Effective EE Charge				<u>\$0.00972</u>
(14) Proposed Adjustment to Reflect Fully Reconciling Funding Mechanism				\$0.00196

Notes:

- (1) Projected Budget from E-2 includes OER and EERMC costs allocated to each sector based on forecasted sales and RIIB costs allocated to C&I sector.
- (2) DSM Commitments are projects that are under construction with anticipated completion in 2018.
- (3) Fund balance projections include projected revenue and spend through year end with Low Income sector set to \$0 through projected subsidization from other sectors, minus commitments which are illustrated separately on line (2).
- (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
- (11) Proposed System Reliability Factor is from the 2019 System Reliability Procurement Plan. Charge reflects projected year-end 2018 fund balance.
- (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 (13) - Line (12)

**Table E-2  
National Grid  
2019 Electric Energy Efficiency Program Budget (\$000)**

	Program Planning & Administration	Marketing	Rebates and Other Customer Incentives	Sales, Technical Assistance & Training	Evaluation & Market Research	Shareholder Incentive	Grand Total
<b>Non-Income Eligible Residential</b>							
Residential New Construction	\$67.8	\$2.5	\$449.4	\$301.4	\$38.3		\$859.4
ENERGY STAR® HVAC	\$89.0	\$108.3	\$1,899.7	\$556.6	\$26.3		\$2,679.9
EnergyWise	\$445.9	\$414.2	\$13,824.9	\$1,392.9	\$137.1		\$16,215.0
EnergyWise Multifamily	\$107.0	\$43.8	\$2,150.0	\$721.0	\$84.9		\$3,106.7
ENERGY STAR® Lighting	\$406.4	\$557.9	\$12,436.9	\$596.0	\$71.5		\$14,068.7
Residential Consumer Products	\$90.1	\$567.8	\$614.6	\$709.8	\$15.5		\$1,997.8
Home Energy Reports	\$103.6	\$10.9	\$2,501.2	\$10.2	\$19.6		\$2,645.6
Residential ConnectedSolutions	\$10.3	\$10.3	\$215.8	\$113.8	\$0.0		\$350.0
Energy Efficiency Education Programs	\$0.0	\$40.0	\$0.0	\$0.0	\$0.0		\$40.0
Residential Pilots	\$43.4	\$24.5	\$104.1	\$50.8	\$0.0		\$222.7
Community Based Initiatives - Residential	\$6.2	\$56.3	\$59.1	\$0.0	\$0.0		\$121.5
Comprehensive Marketing - Residential	\$5.7	\$550.8	\$0.0	\$0.0	\$0.0		\$556.5
Residential Shareholder Incentive	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$2,114.6	\$2,114.6
<b>Subtotal - Non-Income Eligible Residential</b>	<b>\$1,375.4</b>	<b>\$2,387.2</b>	<b>\$34,255.7</b>	<b>\$4,452.4</b>	<b>\$393.2</b>	<b>\$2,114.6</b>	<b>\$44,978.4</b>
<b>Income Eligible Residential</b>							
Single Family - Income Eligible Services	\$376.1	\$129.0	\$9,489.0	\$1,796.5	\$204.4		\$11,995.0
Income Eligible Multifamily	\$118.7	\$9.4	\$2,782.3	\$525.3	\$107.6		\$3,543.2
Income Eligible Shareholder Incentive	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$776.9	\$776.9
<b>Subtotal - Income Eligible Residential</b>	<b>\$494.8</b>	<b>\$138.4</b>	<b>\$12,271.3</b>	<b>\$2,321.8</b>	<b>\$312.0</b>	<b>\$776.9</b>	<b>\$16,315.2</b>
<b>Commercial &amp; Industrial</b>							
Large Commercial New Construction	\$295.9	\$377.2	\$3,095.7	\$1,312.3	\$133.7		\$5,214.8
Large Commercial Retrofit	\$1,231.8	\$287.8	\$18,311.3	\$6,718.45	\$680.9		\$27,230.2
Small Business Direct Install	\$342.1	\$356.4	\$5,350.0	\$479.7	\$372.3		\$6,900.5
Commercial ConnectedSolutions	\$7.9	\$1.3	\$1,400.0	\$227.9	\$0.0		\$1,637.1
Commercial Pilots	\$19.4	\$30.0	\$87.5	\$61.0	\$0.0		\$197.9
Community Based Initiatives - C&I	\$1.7	\$18.8	\$19.7	\$0.0	\$0.0		\$40.1
Finance Costs	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0		\$0.0
RI Infrastructure Bank	\$0.0	\$0.0	\$5,000.0	\$0.0	\$0.0		\$5,000.0
Commercial & Industrial Shareholder Incentive	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$2,069.3	\$2,069.3
<b>Subtotal - Commercial &amp; Industrial</b>	<b>\$1,898.9</b>	<b>\$1,071.4</b>	<b>\$33,264.1</b>	<b>\$8,799.4</b>	<b>\$1,186.9</b>	<b>\$2,069.3</b>	<b>\$48,289.9</b>
<b>Regulatory</b>							
OER	\$818.4	\$0.0	\$0.0	\$0.0	\$225.0		\$1,043.4
EERMC	\$818.4	\$0.0	\$0.0	\$0.0	\$0.0		\$818.4
<b>Subtotal - Regulatory</b>	<b>\$1,636.7</b>	<b>\$0.0</b>	<b>\$0.0</b>	<b>\$0.0</b>	<b>\$225.0</b>	<b>\$0.0</b>	<b>\$1,861.7</b>
<b>Grand Total</b>	<b>\$5,405.8</b>	<b>\$3,597.0</b>	<b>\$79,791.1</b>	<b>\$15,573.5</b>	<b>\$2,117.1</b>	<b>\$4,960.7</b>	<b>\$111,445.2</b>
System Reliability Procurement							\$459.3

**Notes:**

- (1) 2018 Large Commercial Retrofit Commitments (\$000): \$3,000.0
- (2) For more information on Finance Costs, please refer to the 2019 C&I Program Description, Attachment 2.
- (3) OER and EERMC total 2.0% of customers' EE Program Charge collected on Table E-1, minus 2%.
- (4) System Reliability funds are included for illustrative purposes. They are part of the 2019 System Reliability Procurement Report, filed as a separate docket.

**Table E-3  
National Grid  
Derivation of the 2019 Spending and Implementation Budgets (\$000)**

	<b>Proposed 2018 Budget From E-2</b>	<b>Commitments</b>	<b>Regulatory Costs</b>	<b>Shareholder Incentive</b>	<b>Eligible Sector Spending Budget for Shareholder Incentive on E-9</b>	<b>Implementation Expenses for Cost- Effectiveness on E-5</b>
<b>Non-Income Eligible Residential</b>						
Residential New Construction	\$859.4					\$859.4
ENERGY STAR@ HVAC	\$2,679.9					\$2,679.9
EnergyWise	\$16,215.0					\$16,215.0
EnergyWise Multifamily	\$3,106.7					\$3,106.7
ENERGY STAR@ Lighting	\$14,068.7					\$14,068.7
Residential Consumer Products	\$1,997.8					\$1,997.8
Home Energy Reports	\$2,645.6					\$2,645.6
Residential ConnectedSolutions	\$350.0					\$350.0
Energy Efficiency Education Programs	\$40.0					\$40.0
Residential Pilots	\$222.7					\$222.7
Community Based Initiatives - Residential	\$121.5					\$121.5
Comprehensive Marketing - Residential	\$556.5					\$556.5
Residential Shareholder Incentive	\$2,114.6			\$2,114.6		\$0.0
<b>Subtotal - Non-Income Eligible Residential</b>	<b>\$44,978.4</b>	<b>\$0.0</b>	<b>\$0.0</b>	<b>\$2,114.6</b>	<b>\$42,291.1</b>	<b>\$42,863.9</b>
<b>Income Eligible Residential</b>						
Single Family - Income Eligible Services	\$11,995.0					\$11,995.0
Income Eligible Multifamily	\$3,543.2					\$3,543.2
Income Eligible Shareholder Incentive	\$776.9			\$776.9		\$0.0
<b>Subtotal - Income Eligible Residential</b>	<b>\$16,315.2</b>	<b>\$0.0</b>	<b>\$0.0</b>	<b>\$776.9</b>	<b>\$15,538.3</b>	<b>\$15,538.3</b>
<b>Commercial &amp; Industrial</b>						
Large Commercial New Construction	\$5,214.8	\$0.0				\$5,214.8
Large Commercial Retrofit	\$27,230.2	\$3,000.0				\$24,230.2
Small Business Direct Install	\$6,900.5	\$0.0				\$6,900.5
Commercial ConnectedSolutions	\$1,637.1					\$1,637.1
Commercial Pilots	\$197.9					\$197.9
Community Based Initiatives - C&I	\$40.1					\$40.1
Finance Costs	\$0.0					\$0.0
RI Infrastructure Bank	\$5,000.0					\$5,000.0
Commercial & Industrial Shareholder Incentive	\$2,069.3			\$2,069.3		\$0.0
<b>Subtotal - Commercial &amp; Industrial</b>	<b>\$48,289.9</b>	<b>\$3,000.0</b>	<b>\$0.0</b>	<b>\$2,069.3</b>	<b>\$41,385.6</b>	<b>\$43,220.6</b>
<b>Regulatory</b>						
OER	\$1,043.4		\$1,043.4			\$1,043.4
EERMC	\$818.4		\$818.4			\$818.4
<b>Subtotal - Regulatory</b>	<b>\$1,861.7</b>	<b>\$0.0</b>	<b>\$1,861.7</b>	<b>\$0.0</b>	<b>\$0.0</b>	<b>\$1,861.7</b>
<b>Grand Total</b>	<b>\$111,445.2</b>	<b>\$3,000.0</b>	<b>\$1,861.7</b>	<b>\$4,960.7</b>	<b>\$99,215.0</b>	<b>\$103,484.5</b>

Notes:  
(1) Spending budget = Total Budget from E-2 minus commitments, regulatory costs, pilots, Demand Response, and shareholder incentive.  
(2) Implementation Expenses = Total Budget from E-2 minus commitments and shareholder incentive.

**Table E-4**  
**National Grid**  
**Proposed 2019 Budget Compared to Approved 2017 Budget (\$000)**

	<b>Proposed Implementation Budget 2019</b>	<b>Approved Implementation Budget 2018</b>	<b>Difference</b>
<b>Non-Income Eligible Residential</b>			
Residential New Construction	\$859.4	\$764.6	\$94.8
ENERGY STAR® HVAC	\$2,679.9	\$2,206.6	\$473.3
EnergyWise	\$16,215.0	\$14,916.3	\$1,298.8
EnergyWise Multifamily	\$3,106.7	\$3,062.6	\$44.1
ENERGY STAR® Lighting	\$14,068.7	\$6,768.6	\$7,300.1
Residential Consumer Products	\$1,997.8	\$1,831.1	\$166.6
Home Energy Reports	\$2,645.6	\$2,629.3	\$16.3
Residential ConnectedSolutions	\$350.0	N/A	N/A
Energy Efficiency Education Programs	\$40.0	\$40.0	\$0.0
Residential Pilots	\$222.7	\$922.6	-\$699.9
Community Based Initiatives - Residential	\$121.5	\$163.0	-\$41.5
Comprehensive Marketing - Residential	\$556.5	\$556.7	-\$0.2
<b>Subtotal - Non-Income Eligible Residential</b>	<b>\$42,863.9</b>	<b>\$33,861.5</b>	<b>\$9,002.4</b>
<b>Income Eligible Residential</b>			
Single Family - Income Eligible Services	\$11,995.0	\$9,329.3	\$2,665.7
Income Eligible Multifamily	\$3,543.2	\$2,557.4	\$985.9
<b>Subtotal - Income Eligible Residential</b>	<b>\$15,538.3</b>	<b>\$11,886.7</b>	<b>\$3,651.6</b>
<b>Commercial &amp; Industrial</b>			
Large Commercial New Construction	\$5,214.8	\$6,111.7	-\$897.0
Large Commercial Retrofit	\$24,230.2	\$24,030.7	\$199.5
Small Business Direct Install	\$6,900.5	\$6,924.5	-\$24.0
Commercial ConnectedSolutions	\$1,637.1	N/A	N/A
Community Based Initiatives - C&I	\$40.1	\$40.9	-\$0.8
Commercial Pilots	\$197.9	\$993.8	-\$795.9
Finance Costs	\$0.0	\$0.0	\$0.0
RI Infrastructure Bank	\$5,000.0	\$5,000.0	\$0.0
<b>Subtotal Commercial &amp; Industrial</b>	<b>\$43,220.6</b>	<b>\$43,101.6</b>	<b>\$119.0</b>
<b>Regulatory</b>			
EERMC	\$818.4	\$686.1	\$132.3
OER	\$1,043.4	\$686.1	\$357.3
<b>Subtotal Regulatory</b>	<b>\$1,861.7</b>	<b>\$1,372.1</b>	<b>\$489.6</b>
<b>TOTAL IMPLEMENTATION BUDGET</b>	<b>\$103,484.5</b>	<b>\$90,221.9</b>	<b>\$13,262.6</b>
<b>OTHER EXPENSE ITEMS</b>			
Commitments	\$3,000.0	\$0.0	\$3,000.0
Company Incentive	\$4,960.7	\$4,346.7	\$614.1
<b>Subtotal - Other Expense Items</b>	<b>\$7,960.7</b>	<b>\$4,346.7</b>	<b>\$3,614.1</b>
<b>TOTAL BUDGET</b>	<b>\$111,445.2</b>	<b>\$94,568.6</b>	<b>\$16,876.6</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

**Table E-5**  
**National Grid**  
**Calculation of 2019 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>Shareholder Incentive</b>	<b>¢/Lifetime kWh</b>
<b>Non-Income Eligible Residential</b>						
Residential New Construction	3.69	\$ 4,742.7	\$ 859.4	\$ 426.7		8.4
ENERGY STAR® HVAC	3.62	\$ 15,394.8	\$ 2,679.9	\$ 1,576.0		9.9
EnergyWise	1.95	\$ 35,251.7	\$ 16,215.0	\$ 1,837.4		46.6
EnergyWise Multifamily	2.90	\$ 9,975.2	\$ 3,106.7	\$ 330.0		12.5
Home Energy Reports	2.61	\$ 6,898.5	\$ 2,645.6	\$ -		11.0
ENERGY STAR® Lighting	5.20	\$ 72,498.3	\$ 14,068.7	\$ (118.5)		5.3
Residential Consumer Products	2.96	\$ 7,529.3	\$ 1,997.8	\$ 546.1		10.0
Residential ConnectedSolutions	1.08	\$ 379.2	\$ 350.0	\$ -		N/A
Energy Efficiency Education Programs			\$ 40.0			
Residential Pilots			\$ 222.7			
Community Based Initiatives - Residential			\$ 121.5			
Comprehensive Marketing - Residential			\$ 556.5			
<b>Non-Income Eligible Residential SUBTOTAL</b>	<b>3.08</b>	<b>\$ 152,669.8</b>	<b>\$ 42,863.9</b>	<b>\$ 4,597.7</b>	<b>\$ 2,113.8</b>	<b>10.9</b>
<b>Income Eligible Residential</b>						
Single Family - Income Eligible Services	2.81	\$ 33,740.4	\$ 11,995.0	\$ -		28.1
Income Eligible Multifamily	2.91	\$ 10,315.1	\$ 3,543.2	\$ -		11.6
<b>Income Eligible Residential SUBTOTAL</b>	<b>2.70</b>	<b>\$ 44,055.6</b>	<b>\$ 15,538.3</b>	<b>\$ -</b>	<b>\$ 776.6</b>	<b>21.2</b>
<b>Commercial &amp; Industrial</b>						
Large Commercial New Construction	6.71	\$ 38,055.6	\$ 5,214.8	\$ 457.4		3.4
Large Commercial Retrofit	6.34	\$ 248,646.7	\$ 24,230.2	\$ 14,142.6		4.4
Small Business Direct Install	2.92	\$ 28,488.2	\$ 6,900.5	\$ 2,129.3		7.5
Commercial ConnectedSolutions	4.39	\$ 7,192.0	\$ 1,637.1	\$ -		N/A
Commercial Pilots			\$ 197.9			
Community Based Initiatives - C&I			\$ 40.1			
Finance Costs			\$ -			
RI Infrastructure Bank			\$ 5,000.0			
<b>C&amp;I SUBTOTAL</b>	<b>5.07</b>	<b>\$ 322,382.5</b>	<b>\$ 44,766.1</b>	<b>\$ 16,729.3</b>	<b>\$ 2,146.6</b>	<b>5.3</b>
<b>Regulatory</b>						
OER			\$ 1,043.4			
EERMC			\$ 818.4			
<b>Regulatory SUBTOTAL</b>			<b>\$ 1,861.7</b>			
<b>TOTAL</b>	<b>3.95</b>	<b>\$ 519,107.8</b>	<b>\$ 105,029.9</b>	<b>\$ 21,327.0</b>	<b>\$ 5,037.0</b>	<b>7.5</b>

Notes:

(1) RI Test B/C Test = (Energy + Capacity + Resource Benefits+Economic Benefits + Carbon Benefits) / (Program Implementation + Customer Contribution + Shareholder Incentive)

Also includes effects of free-ridership and spillover.

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

**Table E-5A**  
**National Grid**  
**Calculation of 2019 Program Year Cost-Effectiveness with TRC Test**  
**All Dollar Values in (\$000)**

	<b>TRC Benefit/ Cost<sup>1</sup></b>	<b>Total Benefit</b>	<b>Program Implementation Expenses<sup>2</sup></b>	<b>Customer Contribution</b>	<b>Shareholder Incentive</b>	<b>¢/Lifetime kWh</b>
<b>Non-Income Eligible Residential</b>						
Residential New Construction	1.17	\$1,009.3	\$ 859.4	\$ 426.7		\$ 8.4
ENERGY STAR® HVAC	1.42	\$5,051.7	\$ 2,679.9	\$ 1,576.0		\$ 9.9
EnergyWise	1.24	\$22,520.2	\$ 16,215.0	\$ 1,837.4		\$ 46.6
EnergyWise Multifamily	1.62	\$5,759.7	\$ 3,106.7	\$ 330.0		\$ 12.5
Home Energy Reports	0.79	\$2,064.0	\$ 2,645.6	\$ -		\$ 11.0
ENERGY STAR® Lighting	1.67	\$14,629.6	\$ 14,068.7	\$ (118.5)		\$ 5.3
Residential Consumer Products	0.94	\$2,132.7	\$ 1,997.8	\$ 546.1		\$ 10.0
Residential ConnectedSolutions						
Energy Efficiency Education Programs			\$ 40.0			
Residential Pilots			\$ 222.7			
Community Based Initiatives - Residential			\$ 121.5			
Comprehensive Marketing - Residential			\$ 556.5			
<b>Non-Income Eligible Residential SUBTOTAL</b>	<b>1.23</b>	<b>\$ 53,167.1</b>	<b>\$ 42,863.9</b>	<b>\$ 4,597.7</b>	<b>\$ 2,113.8</b>	<b>\$ 10.9</b>
<b>Income Eligible Residential</b>						
Single Family - Income Eligible Services	2.33	\$ 21,716.5	\$ 11,995.0	\$ -		\$ 28.1
Income Eligible Multifamily	2.27	\$ 5,802.2	\$ 3,543.2	\$ -		\$ 11.6
<b>Income Eligible Residential SUBTOTAL</b>	<b>2.21</b>	<b>\$ 27,518.7</b>	<b>\$ 15,538.3</b>	<b>\$ -</b>	<b>\$ 776.6</b>	<b>\$ 21.2</b>
<b>Commercial &amp; Industrial</b>						
Large Commercial New Construction	3.29	\$ 21,430.4	\$ 5,214.8	\$ 457.4		\$ 3.4
Large Commercial Retrofit	2.37	\$ 94,370.7	\$ 24,230.2	\$ 14,142.6		\$ 4.4
Small Business Direct Install	1.02	\$ 9,230.3	\$ 6,900.5	\$ 2,129.3		\$ 7.5
Commercial ConnectedSolutions						
Commercial Pilots			\$ 197.9			
Community Based Initiatives - C&I			\$ 40.1			
Finance Costs			\$ -			
RI Infrastructure Bank			\$ 5,000.0			
<b>C&amp;I SUBTOTAL</b>	<b>1.97</b>	<b>\$ 125,031.5</b>	<b>\$ 44,766.1</b>	<b>\$ 16,729.3</b>	<b>\$ 2,146.6</b>	<b>\$ 5.3</b>
<b>Regulatory</b>						
OER			\$ 1,043.4			
EERMC			\$ 818.4			
<b>Regulatory SUBTOTAL</b>			<b>\$ 1,861.7</b>			
<b>TOTAL</b>	<b>1.71</b>	<b>\$ 205,717.3</b>	<b>\$ 105,029.9</b>	<b>\$ 21,327.0</b>	<b>\$ 5,037.0</b>	<b>\$ 7.5</b>

Notes:

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

Also includes effects of free-ridership and spillover.

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



**Table E-6A**  
**National Grid**  
**Summary of 2019 Demand Response Benefits and Savings**

	Benefits (000's)										Load Reduction (KW)	MWh Saved		
	Total	Capacity					Energy			Non Electric	Societal	Summer	Annual	Lifetime
		Summer Generation	Capacity DRIPE	Trans	Dist	Reliability	Summer		Energy DRIPE	Non Resource	Carbon			
							Peak	Off Peak						
<b>Non-Income Eligible Residential</b>														
Residential ConnectedS	\$379	\$0.32	\$5.4	\$187	\$163	\$23	\$0.17	\$0.11	\$0.15	\$0	\$0.25	1,763	8	8
<b>Commercial &amp; Industrial</b>														
Commercial Connected	\$7,192	\$0.11	\$1.8	\$3,612	\$3,140	\$438	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	34,000	0	0
<b>TOTAL</b>	<b>\$7,571</b>	<b>\$0</b>	<b>\$7</b>	<b>\$3,799</b>	<b>\$3,303</b>	<b>\$460</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>35,763</b>	<b>8</b>	<b>8</b>



**Table E-7  
National Grid  
Comparison of 2019 and 2018 Goals**

	Proposed 2019				Approved 2018		Difference	
	Annual Demand Savings (kW)	Annual Energy Savings (MWh)	Demand Response (kW)	Planned Unique Participants	Annual Demand Savings (kW)	Annual Energy Savings (MWh)	Annual Demand Savings (kW)	Annual Energy Savings (MWh)
<b>Non-Income Eligible Residential</b>								
Residential New Construction	118	882		501	49	619	69	263
ENERGY STAR® HVAC	633	2,897		1,794	433	2,091	200	806
EnergyWise	1,273	8,068		10,000	286	6,157	987	1,911
EnergyWise Multifamily	295	3,592		6,000	329	4,207	-34	-616
Home Energy Reports	4,278	24,130		213,750	3,325	25,054	952	-924
ENERGY STAR® Lighting	5,766	49,606		292,150	4,413	38,891	1,352	10,714
Residential Consumer Products	556	3,484		9,682	429	2,849	127	635
Residential ConnectedSolutions			1,763				N/A	N/A
<b>Non-Income Eligible Residential SUBTOTAL</b>	<b>12,919</b>	<b>92,658</b>	<b>1,763</b>	<b>533,877</b>	<b>9,264</b>	<b>79,868</b>	<b>3,655</b>	<b>12,790</b>
<b>Income Eligible Residential</b>								
Single Family - Income Eligible Services	889	3,771		2,750	696	4,185	193	-414
Income Eligible Multifamily	223	3,219		4,800	170	3,287	54	-68
<b>Income Eligible Residential SUBTOTAL</b>	<b>1,112</b>	<b>6,990</b>		<b>7,550</b>	<b>865</b>	<b>7,472</b>	<b>247</b>	<b>-482</b>
<b>Commercial &amp; Industrial</b>								
Large Commercial New Construction	1,368	10,597		139	1,728	13,959	-360	-3,362
Large Commercial Retrofit	12,562	71,771		2,193	11,910	75,616	652	-3,845
Small Business Direct Install	1,005	10,021		565	1,034	9,940	-29	80
Commercial ConnectedSolutions			34,000				N/A	N/A
<b>C&amp;I SUBTOTAL</b>	<b>14,935</b>	<b>92,389</b>	<b>34,000</b>	<b>2,897</b>	<b>14,673</b>	<b>99,515</b>	<b>263</b>	<b>-7,127</b>
<b>TOTAL</b>	<b>28,967</b>	<b>192,036</b>	<b>35,763</b>	<b>544,324</b>	<b>24,802</b>	<b>186,855</b>	<b>4,165</b>	<b>5,181</b>

Notes:

- (1) Planned 2018 participation takes into account net-to-gross and estimates unique participation by taking into account 2017 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, ENERGY STAR® Lighting and Home Energy Reports, therefore the population reached can be more than 100%.
- (4) Beginning in 2017, Home Energy Reports participation was counted as the number of customers receiving reports (i.e., the "treatment group") adjusted by the "Read Rate" of 75% from the most recent Customer Engagement Tracker Survey.

**Table E-8**  
**National Grid**  
**Avoided Costs Used in 2019 Benefit-Cost Model**

	Rhode Island					DRIPE for Installations in 2019				
	Winter Peak Energy	Winter Off-Peak Energy	Summer Peak Energy	Summer Off-Peak Energy	Annual Market Capacity Value Weighted Avg	Winter Peak Energy	Winter Off-Peak Energy	Summer Peak Energy	Summer Off-Peak Energy	Annual Market Capacity Value Weighted Avg
Units:	\$/kWh	\$/kWh	\$/kWh	\$/kWh	\$/kW-yr	\$/kWh	\$/kWh	\$/kWh	\$/kWh	\$/kW-yr
Period:										
2019	0.062	0.057	0.042	0.038	88.02	0.06	0.04	0.04	0.03	402.36
2020	0.064	0.061	0.049	0.043	64.99	0.09	0.07	0.07	0.05	503.53
2021	0.067	0.061	0.056	0.047	52.74	0.10	0.08	0.09	0.06	90.61
2022	0.063	0.057	0.052	0.042	50.68	0.10	0.07	0.09	0.06	68.43
2023	0.064	0.057	0.049	0.039	56.80	0.09	0.06	0.07	0.04	45.49
2024	0.068	0.063	0.048	0.044	62.68	0.07	0.05	0.05	0.04	12.05
2025	0.063	0.060	0.050	0.045	70.91	0.05	0.04	0.04	0.03	267.40
2026	0.063	0.059	0.054	0.047	80.87	0.04	0.03	0.03	0.02	364.34
2027	0.068	0.064	0.051	0.045	89.45	0.02	0.01	0.02	0.01	424.20
2028	0.070	0.062	0.055	0.045	95.69	0.01	0.01	0.01	0.01	416.70
2029	0.072	0.066	0.054	0.046	102.17					321.20
2030	0.066	0.062	0.057	0.052	97.66					177.02
2031	0.065	0.061	0.052	0.045	95.69					102.18
2032	0.065	0.060	0.054	0.046	102.17					48.04
2033	0.070	0.061	0.054	0.045	97.66					11.66
2034	0.069	0.058	0.058	0.046	95.69					
2035	0.071	0.064	0.064	0.054	102.17					
2036	0.072	0.064	0.067	0.057	103.86					
2037	0.074	0.065	0.071	0.060	105.57					
2038	0.076	0.066	0.075	0.063	107.32					
2039	0.078	0.067	0.079	0.066	109.09					
2040	0.079	0.068	0.084	0.069	110.89					
2041	0.082	0.069	0.088	0.073	112.72					
2042	0.084	0.070	0.093	0.077	114.58					
2043	0.086	0.071	0.099	0.081	116.47					
2044	0.089	0.073	0.105	0.085	118.40					
2045	0.091	0.075	0.111	0.090	120.35					
2046	0.095	0.077	0.118	0.095	122.34					
2047	0.098	0.079	0.125	0.101	124.36					
2048	0.102	0.082	0.133	0.107	126.41					

Source:  
AESC 2018 Study , Appendix B, in 2018 dollars

**Table E-9  
National Grid  
2019 Targeted Shareholder Incentive**

Energy Incentive Rate: 3.50%

	(1)	(2)	(3)	(4)	(5)
Sector	Spending Budget \$(000)	Target Incentive \$(000)	Annual kWh Savings Goal	Threshold kWh Savings	Target Incentive Per kWh
Income Eligible Residential	\$15,538	\$544	6,989,899	5,242,424	\$0.078
Non-Income Eligible Residential	\$42,291	\$1,480	92,658,070	69,493,553	\$0.016
Commercial & Industrial	\$41,386	\$1,448	92,388,510	69,291,383	\$0.016
Total	\$99,215	\$3,473	192,036,480	144,027,360	\$0.018

Demand Incentive Rate: 1.50%

	(6)	(7)	(8)	(9)	(10)
Sector	Spending Budget \$(000)	Target Incentive \$(000)	Annual kW Savings Goal	Threshold kW Savings	Target Incentive Per kW
Income Eligible Residential	\$15,538	\$233	1,112	834	\$209.5
Non-Income Eligible Residential	\$42,291	\$634	12,919	9,689	\$49.1
Commercial & Industrial	\$41,386	\$621	14,935	11,202	\$41.6
Total	\$99,215	\$1,488	28,967	21,725	\$51.4

**Notes:**

(1) and (6) Eligible Spending Budget excludes Commitments, Regulatory Costs, Pilots, and Shareholder Incentive. See Table E-3 for details.

(2) Equal to the incentive rate (3.5%) x Column (1).

(3) and (8) See Table E-7

(4) and (9) 75% of Column (3). No incentive is earned on annual kWh savings in the sector unless the Company achieves at least this threshold level of performance.

(5) Column (2)\*1000/Column (3). This illustration is for achieved savings equal to the savings target. The incentive earned per kWh will vary with the percent of the savings target achieved

(7) Equal to the incentive rate (1.5%) x Column (1).

(10) Column (7)\*1000/Column (8). This illustration is for achieved savings equal to the savings target. The incentive earned per kW will vary with the percent of the savings target achieved

The shareholder incentive for Energy and Demand incentives will be calculated as follows, where SB is the Spending Budget in the sector:

- From 75% of savings to 100% of savings: Shareholder Incentive = SB x (0.15 x % of savings achieved – 0.10)
- x 0.7 for electric energy savings
- x 0.3 for electric demand savings
- x 1.0 for natural gas savings
- From 100% of savings to 125% of savings: Shareholder Incentive = SB x (0.05 x % of savings achieved)

**Table E-10**  
**National Grid**  
**Revolving Loan Fund Projections**

Large C&I Revolving Loan Fund		Small Business Revolving Loan Fund	
(1) Total Loan Fund Deposits Through 2017	\$ 21,979,678	(1) Total Loan Fund Deposits Through 2017	\$ 4,658,971
(2) Current Loan Fund Balance	\$ 14,439,704	(2) Current Loan Fund Balance	\$ 2,747,899
	<i>Loans Paid Year-</i> \$ 5,377,709		<i>Loans Paid Yec</i> \$ 1,518,374
	<i>Repayments Year</i> \$ 2,429,390		<i>Repayments Ye</i> \$ 1,805,496
(3) Projected Additional Loans by Year End 2017	\$ 5,994,473	(3) Projected Additional Loans by Year End 2017	\$ 1,718,084
(4) Projected Additional Repayments by Year End 201	\$ 1,388,223	(4) Projected Additional Repayments by Year End 201'	\$ 902,748
<b>(5) Projected Year End Loan Fund Balance 2017</b>	<b>\$ 9,833,453</b>	<b>(5) Projected Year End Loan Fund Balance 2017</b>	<b>\$ 1,932,563</b>
(6) 2018 Fund Injection	\$ -	(6) 2018 Fund Injection	\$ -
<b>(7) Projected Loan Fund Balance, January 2018</b>	<b>\$ 9,833,453</b>	<b>(7) Projected Loan Fund Balance, January 2018</b>	<b>\$ 1,932,563</b>
(8) Projected Repayments throughout 2018	\$ 3,929,654	(8) Projected Repayments throughout 2018	\$ 2,000,000
(9) Estimated Loans in 2018	\$ 11,000,000	(9) Estimated Loans in 2018	\$ 2,800,000
<b>(10) Projected Year End Loan Fund Balance 2018</b>	<b>\$ 2,763,107</b>	<b>(10) Projected Year End Loan Fund Balance 2018</b>	<b>\$ 1,132,563</b>
<b>Public Sector Revolving Loan Fund</b>			
(1) Total Loan Fund Deposits Through 2017	\$ 1,562,529		
(2) Current Loan Fund Balance	\$ 712,259		
	<i>Loans Paid Year-</i> \$ -		
	<i>Repayments Year</i> \$ 229,074		
(3) Projected Additional Loans by Year End	\$ 18,003		
(4) Projected Additional Repayments by Year End	\$ 114,537		
<b>(5) Projected Year End Loan Fund Balance</b>	<b>\$ 808,793</b>		
(6) 2018 Fund Injection	\$ -		
<b>(7) Projected Loan Fund Balance, January 2018</b>	<b>\$ 808,793</b>		
(8) Projected Repayments throughout 2018	\$ 305,000		
(9) Estimated Loans in 2018	\$ -		
<b>(10) Projected Year End Loan Fund Balance 2018</b>	<b>\$ 1,113,793</b>		

Notes

- 1 Funding injections since loan funds began.
- 2 Current Loan Fund Balance is through August 2017; it includes all loans and repayments made by August 2017. Public Sector Revolving Loan Fund reduced by transfers to RI PEP Incentives.
- 3 Projected Loans from September to Year-End 2017 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 2018 instead of 2017.
- 4 Projected Repayments from September to Year-End 2017 is estimated based on the monthly average amount of repayments
- 5 Equal to (2) - (3) + (4)
- 6 Proposed 2018 Fund Injection detailed on Table E-2
- 7 Equal to (5) + (6)
- 8 Assumption based on monthly average repayments in 2017 over 12 month period; repayments accumulate over time and may vary widely.
- 9 Amount projected to be lent to customers in 2018
- 10 Equal to (7) + (8) - (9)