

# Cleveland Electric Illuminating Company Energy Efficiency Savings Summary

## 1 Incremental Savings and Expenditures from Programs for Plan Year 2019

	Ex Ante Gross Savings			Realization Rate		Actual Expenditures			Participation		Weighted Program Measure Life	TRC Test Ratio <sup>1</sup>	PAC Test Ratio
	A	B	C	D	E	F	G=F/(A*1,000)	H=F/(C*1000)	I	J	K=C/A	L	M
	First Year Annual Energy Savings (MWh)	First Year Peak Demand Savings (MW)	Lifetime Savings (MWh)	Energy Savings (Ex Post Gross/Ex Ante Gross)	Demand Savings (Ex Post Gross/Ex Ante Gross)	Program Costs (\$)	Ex Ante First Year Cost Per First Year Annual Savings (\$/kWh)	Ex Ante Cost per Lifetime Savings (\$/kWh)	Participation Number	Unit Description (See Evaluation Report for Details)	Years	C/E Score By Program	C/E Score By Program
<b>Residential Programs</b>													
Appliance Turn-In	12,250	2.07	95,718	98%	98%	\$ 1,557,234	\$ 0.13	\$ 0.02	7,496	Appliances	7.8	5.46	3.99
Customer Action Program	-	-	-	-	-	\$ 1,044	N/A	N/A	-	See Appendix	N/A	N/A	N/A
Direct Load Control	-	-	-	-	-	\$ -	N/A	N/A	-	Participants	N/A	N/A	N/A
Energy Efficient Homes	44,000	6.25	266,231	91%	76%	\$ 4,011,636	\$ 0.09	\$ 0.02	112,333	See Appendix	6.1	2.40	3.66
Energy Efficient Products	34,346	4.73	466,294	105%	110%	\$ 3,283,827	\$ 0.10	<\$0.01	203,381	See Appendix	13.6	3.66	7.79
Low Income Energy Efficiency	4,334	0.63	68,425	97%	98%	\$ 2,634,493	\$ 0.61	\$ 0.04	1,561	Application	15.8	11.06	1.38
<b>Total Residential</b>	<b>94,930</b>	<b>13.68</b>	<b>896,668</b>	<b>97%</b>	<b>92%</b>	<b>\$ 11,488,234</b>	<b>\$ 0.12</b>	<b>\$ 0.01</b>	<b>324,771</b>		<b>9.4</b>	<b>3.44</b>	<b>4.36</b>
<b>Business Programs</b>													
C&I Demand Response Program	0	568.92	N/A	N/A	N/A	\$ -	N/A	N/A	364	Participants	N/A	N/A	N/A
Customer Action Program - Small	-	-	-	-	-	\$ 38,987	N/A	N/A	-	See Appendix	N/A	N/A	N/A
Customer Action Program - Large	-	-	-	-	-	\$ -	N/A	N/A	-	See Appendix	N/A	N/A	N/A
Energy Solutions for Business - Small	77,600	12.70	1,035,698	98%	94%	\$ 6,527,431	\$ 0.08	<\$0.01	1,871	See Appendix	13.3	2.72	9.11
Energy Solutions for Business - Large	32,993	4.79	423,369	93%	97%	\$ 3,164,941	\$ 0.10	<\$0.01	105	See Appendix	12.8	2.70	7.55
Government Tariff Lighting	231	0.05	2,308	100%	100%	\$ 12,778	\$ 0.06	<\$0.01	17	Project	10.0	12.23	12.23
Mercantile (Approved) <sup>2</sup>	34,196	5.32	438,799	93%	112%	\$ 1,258,613	\$ 0.04	<\$0.01	42	Application	12.8	19.99	19.99
Mercantile (Pending)	-	-	-	-	-	\$ -	N/A	N/A	-	Application	N/A	N/A	N/A
<b>Total Business</b>	<b>145,020</b>	<b>591.78</b>	<b>1,900,174</b>	<b>96%</b>	<b>99%</b>	<b>\$ 11,002,750</b>	<b>\$ 0.08</b>	<b>&lt;\$0.01</b>	<b>2,399</b>		<b>13.1</b>	<b>2.49</b>	<b>9.88</b>
<b>Other Programs</b>													
Energy Special Improvement District	-	-	-	-	-	\$ -	N/A	N/A	-	Project	N/A	N/A	N/A
Smart Grid Modernization Initiative	0.2	0.00	0.2	N/A	N/A	\$ -	<\$0.01	<\$0.01	11	Participants	1.0	N/A	N/A
T&D Improvements	1,207	0.36	24,147	N/A	N/A	\$ -	<\$0.01	<\$0.01	2	Project	20.0	N/A	N/A
<b>Total Other</b>	<b>1,207</b>	<b>0.36</b>	<b>24,148</b>			<b>\$ -</b>	<b>&lt;\$0.01</b>	<b>&lt;\$0.01</b>	<b>13</b>		<b>20.0</b>		
<b>Portfolio Total</b>	<b>241,157</b>	<b>605.82</b>	<b>2,820,990</b>	<b>96%</b>	<b>96%</b>	<b>\$ 22,490,984</b>	<b>\$ 0.09</b>	<b>&lt;\$0.01</b>	<b>327,183</b>		<b>11.7</b>	<b>2.73</b>	<b>7.06</b>

<sup>1</sup> N/A reflects a TRC score is not applicable for that program.

<sup>2</sup> In line with the Commission's Orders in 10-834-EL-POR and 12-665-EL-UNC, the Companies' evaluator has calculated Mercantile program cost effectiveness using the Utility Cost Test (UCT), not the Total Resource Cost (TRC) Test

## 2 Information Relative to Statutory Targets for Year 2019

3 year baseline retail normalized (mercantile, weather, opt-out, etc.) sales. (MWh)	16,766,226
2019 Annual Benchmark Target (%)	1%
2019 Savings (MWh)	241,157
2019 Achievement (%)	144%

## 3 Banked Savings in Year 2019

2019 Excess Savings Banked Toward Future Compliance	73,495
Total Banked Savings Remaining After 2019	1,326,009

## 4 Opt Out - Three year baseline in 2019

Total Opt Out load (MWh)	2,090,459
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# Ohio Edison Illuminating Company Energy Efficiency Savings Summary

## 1 Incremental Savings and Expenditures from Programs for Plan Year 2019

	Ex Ante Gross Savings			Realization Rate		Actual Expenditures			Participation		Weighted Program Measure Life	TRC Test Ratio <sup>1</sup>	PAC Test Ratio
	A	B	C	D	E	F	G=F/(A*1,000)	H=F/(C*1000)	I	J	K=C/A	L	M
	First Year Annual Energy Savings (MWh)	First Year Peak Demand Savings (MW)	Lifetime Savings (MWh)	Energy Savings (Ex Post Gross/Ex Ante Gross)	Demand Savings (Ex Post Gross/Ex Ante Gross)	Program Costs (\$)	Ex Ante First Year Cost Per First Year Annual Savings (\$/kWh)	Ex Ante Cost per Lifetime Savings (\$/kWh)	Participation Number	Unit Description (See Evaluation Report for Details)	Years	C/E Score By Program	C/E Score By Program
<b>Residential Programs</b>													
Appliance Turn-In	17,737	3.00	138,587	98%	97%	\$ 2,151,425	\$ 0.12	\$ 0.02	10,784	Appliances	7.8	5.83	4.19
Customer Action Program	-	-	-	-	-	\$ 1,943	N/A	N/A	-	See Appendix	N/A	N/A	N/A
Direct Load Control	-	-	-	-	-	\$ -	N/A	N/A	-	Participants	N/A	N/A	N/A
Energy Efficient Homes	68,139	8.31	417,454	91%	88%	\$ 6,013,738	\$ 0.09	\$ 0.01	179,711	See Appendix	6.1	2.59	3.79
Energy Efficient Products	37,107	5.56	498,491	111%	115%	\$ 4,819,921	\$ 0.13	<\$0.01	226,506	See Appendix	13.4	2.70	5.79
Low Income Energy Efficiency	3,427	0.51	54,186	99%	97%	\$ 2,788,483	\$ 0.81	\$ 0.05	1,452	Application	15.8	7.57	1.04
<b>Total Residential</b>	<b>126,410</b>	<b>17.38</b>	<b>1,108,717</b>	<b>98%</b>	<b>99%</b>	<b>\$ 15,775,510</b>	<b>\$ 0.12</b>	<b>\$ 0.01</b>	<b>418,453</b>		<b>8.8</b>	<b>2.97</b>	<b>3.97</b>
<b>Business Programs</b>													
C&I Demand Response Program	0	372.97	N/A	N/A	N/A	\$ -	N/A	N/A	447	Participants	N/A	N/A	N/A
Customer Action Program - Small	-	-	-	-	-	\$ 41,073	N/A	N/A	-	See Appendix	N/A	N/A	N/A
Customer Action Program - Large	-	-	-	-	-	\$ -	N/A	N/A	-	See Appendix	N/A	N/A	N/A
Energy Solutions for Business - Small	93,685	14.69	1,250,379	93%	90%	\$ 8,118,537	\$ 0.09	<\$0.01	3,273	See Appendix	13.3	2.68	8.76
Energy Solutions for Business - Large	70,788	9.76	908,357	96%	97%	\$ 5,673,316	\$ 0.08	<\$0.01	224	See Appendix	12.8	2.77	8.94
Government Tariff Lighting	398	0.01	3,979	100%	100%	\$ 34,256	\$ 0.09	<\$0.01	14	Project	10.0	9.88	5.63
Mercantile (Approved) <sup>2</sup>	13,811	0.81	177,218	100%	222%	\$ 618,419	\$ 0.04	<\$0.01	31	Application	12.8	14.10	14.10
Mercantile (Pending)	-	-	-	-	-	\$ -	N/A	N/A	-	Application	N/A	N/A	N/A
<b>Total Business</b>	<b>178,682</b>	<b>398.24</b>	<b>2,339,932</b>	<b>94%</b>	<b>97%</b>	<b>\$ 14,485,601</b>	<b>\$ 0.08</b>	<b>&lt;\$0.01</b>	<b>3,989</b>		<b>13.1</b>	<b>2.59</b>	<b>9.02</b>
<b>Other Programs</b>													
Energy Special Improvement District	-	-	-	-	-	\$ -	N/A	N/A	-	Project	N/A	N/A	N/A
Smart Grid Modernization Initiative	-	-	-	N/A	N/A	\$ -	N/A	N/A	-	Participants	N/A	N/A	N/A
T&D Improvements	5,706	1.42	114,115	N/A	N/A	\$ -	<\$0.01	<\$0.01	2	Project	20.0	N/A	N/A
<b>Total Other</b>	<b>5,706</b>	<b>1.42</b>	<b>114,115</b>			<b>\$ -</b>	<b>&lt;\$0.01</b>	<b>&lt;\$0.01</b>	<b>2</b>		<b>20.0</b>		
<b>Portfolio Total</b>	<b>310,798</b>	<b>417.04</b>	<b>3,562,765</b>	<b>96%</b>	<b>98%</b>	<b>\$ 30,261,111</b>	<b>\$ 0.10</b>	<b>&lt;\$0.01</b>	<b>422,444</b>		<b>11.5</b>	<b>2.70</b>	<b>6.39</b>

<sup>1</sup> N/A reflects a TRC score is not applicable for that program.

<sup>2</sup> In line with the Commission's Orders in 10-834-EL-POR and 12-665-EL-UNC, the Companies' evaluator has calculated Mercantile program cost effectiveness using the Utility Cost Test (UCT), not the Total Resource Cost (TRC) Test

## 2 Information Relative to Statutory Targets for Year 2019

3 year baseline retail normalized (mercantile, weather, opt-out, etc.) sales. (MWh)	21,522,556
2019 Annual Benchmark Target (%)	1%
2019 Savings (MWh)	310,798
2019 Achievement (%)	144%

## 3 Banked Savings in Year 2019

2019 Excess Savings Banked Toward Future Compliance	95,573
Total Banked Savings Remaining After 2019	1,233,677

## 4 Opt Out - Three year baseline in 2019

Total Opt Out load (MWh)	2,373,515
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# Toledo Edison Company Energy Efficiency Savings Summary

## 1 Incremental Savings and Expenditures from Programs for Plan Year 2019

	Ex Ante Gross Savings			Realization Rate		Actual Expenditures			Participation		Weighted Program Measure Life	TRC Test Ratio <sup>1</sup>	PAC Test Ratio
	A	B	C	D	E	F	G=F/(A*1,000)	H=F/(C*1000)	I	J	K=C/A	L	M
	First Year Annual Energy Savings (MWh)	First Year Peak Demand Savings (MW)	Lifetime Savings (MWh)	Energy Savings (Ex Post Gross/Ex Ante Gross)	Demand Savings (Ex Post Gross/Ex Ante Gross)	Program Costs (\$)	Ex Ante First Year Cost Per First Year Annual Savings (\$/kWh)	Ex Ante Cost per Lifetime Savings (\$/kWh)	Participation Number	Unit Description (See Evaluation Report for Details)	Years	C/E Score By Program	C/E Score By Program
<b>Residential Programs</b>													
Appliance Turn-In	4,312	0.73	33,695	98%	98%	\$ 576,658	\$ 0.13	\$ 0.02	2,634	Appliances	7.8	5.11	3.80
Customer Action Program	-	-	-	-	-	\$ 570	N/A	N/A	-	See Appendix	N/A	N/A	N/A
Direct Load Control	-	-	-	-	-	\$ -	N/A	N/A	-	Participants	N/A	N/A	N/A
Energy Efficient Homes	18,844	2.39	154,504	89%	83%	\$ 1,974,497	\$ 0.10	\$ 0.01	64,149	See Appendix	8.2	2.82	4.22
Energy Efficient Products	14,068	2.02	192,030	102%	107%	\$ 1,686,561	\$ 0.12	<\$0.01	71,947	See Appendix	13.7	3.04	6.30
Low Income Energy Efficiency	1,446	0.20	22,859	98%	98%	\$ 1,127,908	\$ 0.78	\$ 0.05	815	Application	15.8	6.57	1.07
<b>Total Residential</b>	<b>38,670</b>	<b>5.34</b>	<b>403,087</b>	<b>95%</b>	<b>95%</b>	<b>\$ 5,366,194</b>	<b>\$ 0.14</b>	<b>\$ 0.01</b>	<b>139,545</b>		<b>10.4</b>	<b>3.16</b>	<b>4.17</b>
<b>Business Programs</b>													
C&I Demand Response Program	0	187.43	N/A	N/A	N/A	\$ -	N/A	N/A	109	Participants	N/A	N/A	N/A
Customer Action Program - Small	-	-	-	-	-	\$ 12,714	N/A	N/A	-	See Appendix	N/A	N/A	N/A
Customer Action Program - Large	-	-	-	-	-	\$ -	N/A	N/A	-	See Appendix	N/A	N/A	N/A
Energy Solutions for Business - Small	32,689	5.24	436,295	100%	96%	\$ 2,641,347	\$ 0.08	<\$0.01	739	See Appendix	13.3	2.76	9.44
Energy Solutions for Business - Large	19,820	2.87	254,334	101%	107%	\$ 1,862,183	\$ 0.09	<\$0.01	91	See Appendix	12.8	2.70	7.71
Government Tariff Lighting	1,257	0.29	12,567	100%	100%	\$ 2,174	<\$0.01	<\$0.01	3	Project	10.0	391.45	391.45
Mercantile (Approved) <sup>2</sup>	3,296	0.68	42,289	94%	101%	\$ 252,597	\$ 0.08	<\$0.01	11	Application	12.8	10.29	10.29
Mercantile (Pending)	-	-	-	-	-	\$ -	N/A	N/A	-	Application	N/A	N/A	N/A
<b>Total Business</b>	<b>57,062</b>	<b>196.51</b>	<b>745,485</b>	<b>100%</b>	<b>100%</b>	<b>\$ 4,771,015</b>	<b>\$ 0.08</b>	<b>&lt;\$0.01</b>	<b>953</b>		<b>13.1</b>	<b>2.66</b>	<b>8.96</b>
<b>Other Programs</b>													
Energy Special Improvement District	-	-	-	-	-	\$ -	N/A	N/A	-	Project	N/A	N/A	N/A
Smart Grid Modernization Initiative	-	-	-	N/A	N/A	\$ -	N/A	N/A	-	Participants	N/A	N/A	N/A
T&D Improvements	1,048	0.31	20,957	N/A	N/A	\$ -	<\$0.01	<\$0.01	1	Project	20.0	N/A	N/A
<b>Total Other</b>	<b>1,048</b>	<b>0.31</b>	<b>20,957</b>			<b>\$ -</b>	<b>&lt;\$0.01</b>	<b>&lt;\$0.01</b>	<b>1</b>		<b>20.0</b>		
<b>Portfolio Total</b>	<b>96,780</b>	<b>202.16</b>	<b>1,169,529</b>	<b>98%</b>	<b>98%</b>	<b>\$ 10,137,209</b>	<b>\$ 0.10</b>	<b>&lt;\$0.01</b>	<b>140,499</b>		<b>12.1</b>	<b>2.81</b>	<b>6.42</b>

<sup>1</sup> N/A reflects a TRC score is not applicable for that program.

<sup>2</sup> In line with the Commission's Orders in 10-834-EL-POR and 12-665-EL-UNC, the Companies' evaluator has calculated Mercantile program cost effectiveness using the Utility Cost Test (UCT), not the Total Resource Cost (TRC) Test

## 2 Information Relative to Statutory Targets for Year 2019

3 year baseline retail normalized (mercantile, weather, opt-out, etc.) sales. (MWh)	6,846,178
2019 Annual Benchmark Target (%)	1%
2019 Savings (MWh)	96,780
2019 Achievement (%)	141%

## 3 Banked Savings in Year 2019

2019 Excess Savings Banked Toward Future Compliance	28,318
Total Banked Savings Remaining After 2019	570,808

## 4 Opt Out - Three year baseline in 2019

Total Opt Out load (MWh)	3,758,916
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# FirstEnergy Energy Efficiency Savings Summary

## 1 Incremental Savings and Expenditures from Programs for Plan Year 2019

	Ex Ante Gross Savings			Realization Rate		Actual Expenditures			Participation		Weighted Program Measure Life	TRC Test Ratio <sup>1</sup>	PAC Test Ratio
	A	B	C	D	E	F	G=F/(A*1,000)	H=F/(C*1000)	I	J	K=C/A	L	M
	First Year Annual Energy Savings (MWh)	First Year Peak Demand Savings (MW)	Lifetime Savings (MWh)	Energy Savings (Ex Post Gross/Ex Ante Gross)	Demand Savings (Ex Post Gross/Ex Ante Gross)	Program Costs (\$)	Ex Ante First Year Cost Per First Year Annual Savings (\$/kWh)	Ex Ante Cost per Lifetime Savings (\$/kWh)	Participation Number	Unit Description (See Evaluation Report for Details)	Years	C/E Score By Program	C/E Score By Program
<b>Residential Programs</b>													
Appliance Turn-In	34,299	5.80	268,000	98%	97%	\$ 4,285,317	\$ 0.12	\$ 0.02	20,914	Appliances	7.8	5.60	4.06
Customer Action Program	-	-	-	-	-	\$ 3,556	N/A	N/A	-	See Appendix	N/A	N/A	N/A
Direct Load Control	-	-	-	-	-	\$ -	N/A	N/A	-	Participants	N/A	N/A	N/A
Energy Efficient Homes	130,982	16.94	838,188	91%	83%	\$ 11,999,870	\$ 0.09	\$ 0.01	356,193	See Appendix	6.4	2.56	3.82
Energy Efficient Products	85,521	12.31	1,156,815	107%	112%	\$ 9,790,309	\$ 0.11	<\$0.01	501,834	See Appendix	13.5	3.08	6.55
Low Income Energy Efficiency	9,207	1.33	145,470	98%	98%	\$ 6,550,883	\$ 0.71	\$ 0.05	3,828	Applications	15.8	8.65	1.18
<b>Total Residential</b>	<b>260,009</b>	<b>36.38</b>	<b>2,408,473</b>	<b>97%</b>	<b>96%</b>	<b>\$ 32,629,935</b>	<b>\$ 0.13</b>	<b>\$ 0.01</b>	<b>882,769</b>		<b>9.3</b>	<b>3.16</b>	<b>4.14</b>
<b>Business Programs</b>													
C&I Demand Response Program	0	1,129.33	N/A	N/A	N/A	\$ -	N/A	N/A	920	Participants	N/A	N/A	N/A
Customer Action Program - Small	-	-	-	-	-	\$ 92,774	N/A	N/A	-	See Appendix	N/A	N/A	N/A
Customer Action Program - Large	-	-	-	-	-	\$ -	N/A	N/A	-	See Appendix	N/A	N/A	N/A
Energy Solutions for Business - Small	203,974	32.63	2,722,371	96%	92%	\$ 17,287,315	\$ 0.08	<\$0.01	5,883	See Appendix	13.3	2.71	8.99
Energy Solutions for Business - Large	123,602	17.42	1,586,059	96%	99%	\$ 10,700,441	\$ 0.09	<\$0.01	420	See Appendix	12.8	2.74	8.32
Government Tariff Lighting	1,885	0.35	18,854	100%	100%	\$ 49,208	\$ 0.03	<\$0.01	34	Project	10.0	34.82	24.39
Mercantile (Approved) <sup>2</sup>	51,302	6.80	658,306	95%	123%	\$ 2,129,630	\$ 0.04	<\$0.01	84	Applications	12.8	17.13	17.13
Mercantile (Pending)	-	-	-	-	-	\$ -	N/A	N/A	-	Applications	N/A	N/A	N/A
<b>Total Business</b>	<b>380,763</b>	<b>1,186.53</b>	<b>4,985,591</b>	<b>96%</b>	<b>98%</b>	<b>\$ 30,259,368</b>	<b>\$ 0.08</b>	<b>&lt;\$0.01</b>	<b>7,341</b>		<b>13.1</b>	<b>2.56</b>	<b>9.32</b>
<b>Other Programs</b>													
Energy Special Improvement District	-	-	-	-	-	\$ -	N/A	N/A	-	Project	N/A	N/A	N/A
Smart Grid Modernization Initiative	0.2	0.00	0.2	N/A	N/A	\$ -	<\$0.01	<\$0.01	11	Participants	1.00	N/A	N/A
T&D Improvements	7,961	2.09	159,220	N/A	N/A	\$ -	<\$0.01	<\$0.01	5	Project	20.00	N/A	N/A
<b>Total Other</b>	<b>7,961</b>	<b>2.09</b>	<b>159,220</b>			<b>\$ -</b>	<b>&lt;\$0.01</b>	<b>&lt;\$0.01</b>	<b>16</b>		<b>20.0</b>		
<b>Portfolio Total</b>	<b>648,733</b>	<b>1,225.00</b>	<b>7,553,283</b>	<b>96%</b>	<b>97%</b>	<b>\$ 62,889,303</b>	<b>\$ 0.10</b>	<b>&lt;\$0.01</b>	<b>890,126</b>		<b>11.6</b>	<b>2.73</b>	<b>6.63</b>

<sup>1</sup> N/A reflects a TRC score is not applicable for that program.

<sup>2</sup> In line with the Commission's Orders in 10-834-EL-POR and 12-665-EL-UNC, the Companies' evaluator has calculated Mercantile program cost effectiveness using the Utility Cost Test (UCT), not the Total Resource Cost (TRC) Test

## 2 Information Relative to Statutory Targets for Year 2019

3 year baseline retail normalized (mercantile, weather, opt-out, etc.) sales. (MWh)	45,134,960
2019 Annual Benchmark Target (%)	1%
2019 Savings (MWh)	648,733
2019 Achievement (%)	144%

## 3 Banked Savings in Year 2019

2019 Excess Savings Banked Toward Future Compliance	197,384
Total Banked Savings Remaining After 2019	3,130,494

## 4 Opt Out - Three year baseline in 2019

Total Opt Out load (MWh)	8,222,889
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