

# 2019

## SUSTAINABILITY REPORT

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### Appendix



## APPENDIX

### Energy Efficiency Information

#### Eversource – Energy Efficiency Electric Data

	2019 Actual
Participating Customers*	2,718,527
Spend (US\$)	\$451,716,689
Annual kWh Saved	902,463,836
Lifetime kWh Saved	8,639,420,934
Summer Peak Annual kW Saved	133,388
Winter Peak Annual kW Saved	145,778
Annual CO <sub>2</sub> reduced in Metric Tons**	247,288
Lifetime CO <sub>2</sub> reduced in Metric Tons**	2,645,989
Customer \$\$ Saved Annually	\$175,510,531
Customer \$\$ Saved Lifetime	\$1,708,825,391

*\*Includes customers who purchased energy efficient light bulbs*

#### Eversource – Energy Efficiency Natural Gas Data

	2019 Actual
Participating Customers	210,613
Spend (US\$)	\$72,072,331
Annual Therms Saved	8,586,307
Lifetime Therms Saved	119,238,067
Annual CO <sub>2</sub> reduced in Metric Tons**	41,295
Lifetime CO <sub>2</sub> reduced in Metric Tons**	661,460
Customer \$\$ Saved Annually	\$10,751,135
Customer \$\$ Saved Lifetime	\$154,001,787

*\*\*The calculations for Annual and Lifetime reductions for electric customers for 2019 are based on the [eGrid Regional Factors for NPCC New England](#) for electricity and are CO<sub>2</sub>e. This is a new source used in 2017 to be consistent across all EDCs. Fossil fuel reductions are based on [EIA emissions coefficients](#) and are CO<sub>2</sub>.*

Electric Energy Efficiency Data	2015 Actual	2016 Actual	2017 Actual	2018 Actual
<b>Spend (US\$)</b>	\$406,696,422	\$415,604,005	\$379,191,872	385,734,841
<b>Annual kWh Saved</b>	1,115,926,628	1,144,876,443	1,139,895,680	1,104,925,729
<b>Lifetime kWh Saved</b>	13,611,899,491	11,850,441,932	12,019,829,548	11,349,786,205
<b>Summer Peak Annual kW Saved</b>	172,573	168,752	163,470	159,599
<b>Winter Peak Annual kW Saved</b>	173,613	177,086	168,125	176,594
<b>Annual CO<sub>2</sub> reduced in Tons*</b>	465,735	450,649	304,223	309,128
<b>Lifetime CO<sub>2</sub> reduced in Tons*</b>	5,474,796	4,964,856	3,375,969	3,374,102
<b>Customer \$\$ Saved Annually</b>	\$208,216,211	\$190,138,069	\$195,347,969	\$211,487,309
<b>Customer \$\$ Saved Lifetime</b>	\$2,492,803,967	\$1,980,863,260	\$1,940,673,184	\$2,154,948,832
<b>Participating Customers*</b>	3,219,086	2,597,504	2,978,195	2,360,162

Gas Energy Efficiency Data	2015 Actual	2016 Actual	2017 Actual	2018 Actual
<b>Spend (US\$)</b>	\$52,530,182	\$58,503,718	\$59,762,584	\$68,715,394
<b>Annual Therms Saved</b>	9,328,143	9,552,587	9,757,799	10,032,813
<b>Lifetime Therms Saved</b>	141,734,701	122,609,750	126,600,824	140,319,193
<b>Annual CO<sub>2</sub> reduced in Tons</b>	55,467	60,477	57,447	48,518
<b>Lifetime CO<sub>2</sub> reduced in Tons</b>	847,203	774,356	722,690	684,464
<b>Customer \$\$ Saved Annually</b>	\$9,222,935	\$8,054,362	\$9,387,496	10,065,524
<b>Customer \$\$ Saved Lifetime</b>	\$143,879,594	\$107,394,450	\$131,763,536	\$143,355,740
<b>Participating Customers*</b>	135,599	129,658	231,539	178,525

\*The historical electric emission factors for Connecticut and New Hampshire were based on ISO New England Marginal Emissions, <https://www.iso-ne.com/system-planning/system-plans-studies/emissions>. Massachusetts historical electric emissions factors were based on MassDEP, <http://www.masssavedata.com/Public/GHGReductions>. The use of a common emissions factor in 2018 results in relatively lower emissions in 2018 and 2017 compared to 2015-2016. Participation has been declining due to the lower investment in retail products as LED lighting has transformed into the market place reducing the need for energy efficiency incentives. 2019 was the last year of the Residential Behavior programs which will impact participating customers starting in 2020.

## Reliability Performance Historical Targets and Results

Performance Measure	2014 Actual	2014 Target	2015 Actual	2015 Target	2016 Actual	2016 Target	2017 Actual	2017 Target	2018 Actual	2019 Target
Electric Reliability (1)	15.4	13.1	16.6	14.4	13.0	15.4	17.6	15.4	17.2	15.6
Electric Restoration (2)	82.0	96.1	71.6	85.2	97.9	76.6	73.2	76.1	77.5	80.0
Gas Emergency Response (3)	99.2%	99.1%	99.1%	99.1%	99.5%	99.1%	99.6%	99.1%	99.5%	99.2%

1. Average Number of Months Between Interruptions (12 ÷ SAIFI)

2. System Average Time in Minutes to Restore Service to Customers (SAIDI)

3. Respond to Site Within Specific Time Threshold (set by state regulators)

\*IEEE-1366 2.5 Beta Method, Excluding Planned Outages is used for electric reliability calculations.

## Waste Management and Pollution Prevention Historical Information

Estimated weight of waste by type and disposal method (Tons) – 2018					
	Recycled	Energy Recovery/ Incineration	Landfill	Other	Total
<b>Municipal</b>	2,069	2,203	852		5,124
<b>Universal</b>	54				54
<b>Non-Hazardous</b>	7,303	8	7,263	4,375	18,949
<b>TSCA (PCB)</b>		138		1,123	1,261
<b>RCRA (Hazardous)</b>		45	1,661	1,683	3,389
<b>Total Waste Disposal</b>	9,426	2,394	9,776	7,181	28,777
<b>Waste Avoided (Investment Recovery)</b>	10,155				

Significant changes in our waste stream in 2018 are the result of reductions due to the sale of our generation assets and the inclusion of waste from Aquarion Water. In addition, Aquarion generates Water Treatment Residuals (WTR) as part of its water treatment process. In 2018 approximately 13.9 million gallons of WTR liquids were recycled into the facility or discharged in accordance with regulatory permits.

### Estimated weight of waste by type and disposal method (Tons) – 2017

	Recycled	Energy Recovery/ Incineration	Landfill	Other	Total
<b>Municipal</b>	3,427	2,835	1,980	-	8,242
<b>Universal</b>	38	-	-	-	38
<b>Non-Hazardous</b>	21,100	8	8,206	8,156	37,469
<b>TSCA (PCB)</b>	188	-	500	846	1,533
<b>RCRA (Hazardous)</b>	19	87	1,148	1,404	2,658
<b>Total Waste Disposal</b>	24,771	2,930	11,834	10,406	49,940
<b>Waste Avoided (Investment Recovery)</b>	8,943				

### Estimated weight of waste by type and disposal method (Tons) – 2016

	Recycled	Energy Recovery/ Incineration	Landfill	Other	Total
<b>Municipal</b>	2,753	3,787	3,733	-	10,273
<b>Universal</b>	35	1	-	-	36
<b>Non-Hazardous</b>	14,043	531	6,719	12,448	33,741
<b>TSCA (PCB)</b>	76	97	677	-	850
<b>RCRA (Hazardous)</b>	117	44	870	1,309	2,340
<b>Total Waste Disposal</b>	17,024	4,460	11,999	13,757	47,240
<b>Waste Avoided (Investment Recovery)</b>	8,943				

### Estimated weight of waste by type and disposal method (Tons) – 2015

	Reuse	Recycled	Energy Recovery/ Incineration	Landfill	Other	Total
<b>Prevented</b>	8,553	-	-	-	-	-
<b>Municipal</b>	-	3,162	4,869	1,194	-	9,225
<b>Universal</b>	-	21	-	-	-	21
<b>Non-Hazardous</b>	-	9,474	226	2,683	11,208	23,591
<b>TSCA (PCB)</b>	-	43	183	670	-	896
<b>RCRA (Hazardous)</b>	-	1	56	1,382	894	2,333
<b>Total</b>	8,553	12,701	5,334	5,929	12,102	36,066 <sup>1</sup>

\*This total does not include waste prevented.

### Estimated weight of waste by type and disposal method (Tons) – 2014

	Reuse	Recycled	Energy Recovery/ Incineration	Landfill	Other	Total
<b>Prevented</b>	42,360	-	-	-	--	-
<b>Municipal</b>	-	2,249	3,485	1,487	-	7,221
<b>Universal</b>	-	24	1	-	-	25
<b>Non-Hazardous</b>	-	606	48	28,333	1,137	30,124
<b>TSCA (PCB)</b>	-	-	216	652	109	977
<b>RCRA (Hazardous)</b>	-	1	15	2,764	11	2,791
<b>Total</b>	42,360	2,880	3,765	33,236	1,257	41,138*

\*This total does not include waste prevented