



Electric Company ESG/Sustainability Quantitative Information

Parent Company:
Operating Company(s):
Business Type(s): (e.g., vertically integrated, T&D only, competitive integrated)
State(s) of Operation:
State(s) with RPS Programs:
Regulatory Environment: (e.g., deregulated, regulated, both)
Report Date:

Ref. No.	Refer to the 'EEI Definitions' tab for more information on each metric	Baseline 2012	Last Year 2017	Current Year 2018	Next Year 2019	Future Year	Comments, Links, Additional Information, and Notes
Portfolio							
1	Owned Nameplate Generation Capacity at end of year (MW)	1,188.6	1,192.5	70.0	70.0	2,070.0	<i>Provide a link to charts or additional information if available</i>
1.1	Coal	559.2	559.2	0.0	0.0	0.0	On January 10, 2018, Eversource completed the sale of its New Hampshire fossil-fueled generation assets.
1.2	Natural Gas	414.0	414.0	0.0	0.0	0.0	
1.3	Nuclear		0.0	0.0	0.0	0.0	
1.4	Petroleum	95.0	95.0	0.0	0.0	0.0	
1.5	Total Renewable Energy Resources	120.4	124.3	70.0	70.0	2,070.0	
1.5.1	Biomass/Biogas	50.0	50.0	0.0	0.0	0.0	
1.5.2	Geothermal		0.0	0.0	0.0	0.0	
1.5.3	Hydroelectric	66.3	66.3	0.0	0.0	0.0	On August 26, 2018, Eversource completed the sale of its hydro generation assets.
1.5.4	Solar	4.1	8.0	70.0	70.0	70.0	Eversource completed construction of an additional 62 MW of solar capacity in 2018.
1.5.5	Wind	0.0	0.0	0.0	0.0	2,000.0	Eversource has a 50/50 partnership with Orsted to develop up to 4,000 MW of wind generation off the coast of N
1.6	Other						
Use the data organizer on the left (i.e., the plus/minus symbol) to open/close the alternative generation reporting options							
2	Net Generation for the data year (MWh)	2,017,911	989,608	250,947			Net generation in 2018 includes only hydro and solar power.
2.1	Coal	1,276,898	287,281	0			On January 10, 2018, Eversource completed the sale of its New Hampshire fossil-fueled generation assets.
2.2	Natural Gas	67,808	55,742	0			
2.3	Nuclear	0	0	0			
2.4	Petroleum	160	0	0			
2.5	Total Renewable Energy Resources	673,045	646,585	250,947			
2.5.1	Biomass/Biogas	337,900	290,843	0			
2.5.2	Geothermal	0	0	0			
2.5.3	Hydroelectric	329,964	347,511	242,123			On August 26, 2018, Eversource completed the sale of its hydro generation assets.
2.5.4	Solar	5,181	8,231	8,824			Eversource completed construction of an additional 62 MW of solar capacity in 2018.
2.5.5	Wind	0	0	0			
2.6	Other						
Use the data organizer on the left (i.e., the plus/minus symbol) to open/close the alternative generation reporting options							
3	Investing in the Future: Capital Expenditures, Energy Efficiency (EE), and Smart Meters						
3.1	Total Annual Capital Expenditures (nominal dollars)	\$ 1,500,000,000	\$ 2,500,000,000	\$ 2,830,000,000	\$ 2,971,000,000		CapEx - See slide 14
3.2	Incremental Annual Electricity Savings from EE Measures (MWh)	811,624.4	1,140,027.2	1,074,019.8	870,829.9		Net savings
3.3	Incremental Annual Investment in Electric EE Programs (nominal dollars)	\$ 300,565,728	\$ 379,191,872	\$ 385,734,841	\$ 479,409,280		
3.4	Percent of Total Electric Customers with Smart Meters (at end of year)	0	0	0	0		
4	Retail Electric Customer Count (at end of year)						
4.1	Commercial	376,515	381,173	381,107			
4.2	Industrial	8,279	7,595	7,504			
4.3	Residential	2,714,690	2,798,358	2,814,381			



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Emissions							
5	GHG Emissions: Carbon Dioxide (CO2) and Carbon Dioxide Equivalent (CO2e) Note: The alternatives available below are intended to provide flexibility in reporting GHG emissions, and should be used to the extent appropriate for each company.						Consider including carbon reduction targets in qualitative discussion
5.1	Owned Generation (1) (2) (3)						
5.1.1	Carbon Dioxide (CO2)						
5.1.1.1	Total Owned Generation CO2 Emissions (MT)	1,450,311	418,429	0			
5.1.1.2	Total Owned Generation CO2 Emissions Intensity (MT/Net MWh)	0.719	0.423				
5.1.2	Carbon Dioxide Equivalent (CO2e)						
5.1.2.1	Total Owned Generation CO2e Emissions (MT)	1,460,058	421,429	0			
5.1.2.2	Total Owned Generation CO2e Emissions Intensity (MT/Net MWh)	0.724	0.426				
5.2	Purchased Power (4)						Our power purchases are not detailed by generation source.
5.2.1	Carbon Dioxide (CO2)						
5.2.1.1	Total Purchased Generation CO2 Emissions (MT)						
5.2.1.2	Total Purchased Generation CO2 Emissions Intensity (MT/Net MWh)						
5.2.2	Carbon Dioxide Equivalent (CO2e)						
5.2.2.1	Total Purchased Generation CO2e Emissions (MT)						
5.2.2.2	Total Purchased Generation CO2e Emissions Intensity (MT/Net MWh)						
5.3	Owned Generation + Purchased Power						
5.3.1	Carbon Dioxide (CO2)						
5.3.1.1	Total Owned + Purchased Generation CO2 Emissions (MT)						
5.3.1.2	Total Owned + Purchased Generation CO2 Emissions Intensity (MT/Net MWh)						
5.3.2	Carbon Dioxide Equivalent (CO2e)						
5.3.2.1	Total Owned + Purchased Generation CO2e Emissions (MT)						
5.3.2.2	Total Owned + Purchased Generation CO2e Emissions Intensity (MT/Net MWh)						
5.4	Non-Generation CO2e Emissions						
5.4.1	Fugitive CO2e emissions of sulfur hexafluoride (MT) (5)	47,029	32,870	32,737			Please note that Eversource's Sustainability Report and CDP response reflect emissions factors provided by the Massachusetts Department of Environmental Protection (DEP) in 310 CMR 7.73. See Additional Metrics (Optional) below for more information.
5.4.2	Fugitive CO2e emissions from natural gas distribution (MT) (6)	210,253	175,159	163,187			
6	Nitrogen Oxide (NOx), Sulfur Dioxide (SO2), Mercury (Hg)						
6.1	Generation basis for calculation (7)						
6.2	Nitrogen Oxide (NOx)						
6.2.1	Total NOx Emissions (MT)						
6.2.2	Total NOx Emissions Intensity (MT/Net MWh)						



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6.3	Sulfur Dioxide (SO₂)						
6.3.1	Total SO ₂ Emissions (MT)						
6.3.2	Total SO ₂ Emissions Intensity (MT/Net MWh)						
6.4	Mercury (Hg)						
6.4.1	Total Hg Emissions (kg)						
6.4.2	Total Hg Emissions Intensity (kg/Net MWh)						

Use the data organizer on the left (i.e., the plus/minus symbol) to open/close the Emissions section notes



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Resources							
7	Human Resources						
7.1	Total Number of Employees	9,274	8,084	7,998			
7.2	Total Number on Board of Directors/Trustees	14	13	11			
7.3	Total Women on Board of Directors/Trustees	2	2	3			
7.4	Total Minorities on Board of Directors/Trustees	2	3	4			
7.5	Employee Safety Metrics						
7.5.1	Recordable Incident Rate	2.46*	1.76	1.74			*For Recordable Lost Time Incident Rate , the base year is 2015 as data for 2012 is not available.
7.5.2	Lost-time Case Rate	0.72	0.26	0.40			
7.5.3	Days Away, Restricted, and Transfer (DART) Rate	1.85	0.64	0.74			
7.5.4	Work-related Fatalities	0.00	0.00	0.00			
8	Fresh Water Resources						
8.1	Water Withdrawals - Consumptive (Billions of Liters/Net MWh)	0.00	0.00	0.00			
8.2	Water Withdrawals - Non-Consumptive (Billions of Liters/Net MWh)	0.00	0.00	0.00			
9	Waste Products						
9.1	Amount of Hazardous Waste Manifested for Disposal	1,381*	1,148	1,661			On January 10, 2018, Eversource completed the sale of its New Hampshire fossil-fueled generation assets.
9.2	Percent of Coal Combustion Products Beneficially Used	54%	86%	N/A			
Additional Metrics (Optional)							
	<i>Insert additional rows in this section as necessary.</i>						
	Emissions from Natural Gas Distribution as reported in Eversource Sustainability Report		48,169	46,737			Determined using emissions factor from MA DEP 310 CMR 7.73



Gas Company ESG/Sustainability Quantitative Information

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Ref. No.	Refer to the "Definitions" column for more information on each metric.	Baseline 2012	Last Year 2017	Current Year 2018	Next Year 2019	Future Year	Definitions	Comments, Additional Information
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Natural Gas Distribution								
<p>1 METHANE EMISSIONS AND MITIGATION FROM DISTRIBUTION MAINS</p> <p>1.1 Number of Gas Distribution Customers 487,478 524,628 533,295</p> <p>1.2 Distribution Mains in Service 6,458 6,650 6,694</p> <p>1.2.1 Plastic (miles) 2,771 3,241 3,333</p> <p>1.2.2 Cathodically Protected Steel - Bare & Coated (miles) 2,011 2,012 2,028</p> <p>1.2.3 Unprotected Steel - Bare & Coated (miles) 865 741 701</p> <p>1.2.4 Cast Iron / Wrought Iron - without upgrades (miles) 811 656 632</p> <p>1.3 Plan/Commitment to Replace / Upgrade Remaining Miles of Distribution Mains (# years to complete) CT 14 years MA 21 years CT 13 years MA 20 years</p> <p>1.3.1 Unprotected Steel (Bare & Coated) (# years to complete) See comment</p> <p>1.3.2 Cast Iron / Wrought Iron (# years to complete) See Comment</p> <p>2 Distribution CO2e Fugitive Emissions</p> <p>2.1 CO2e Fugitive Methane Emissions from Gas Distribution Operations (metric tons) 210,253 175,159 163,187</p> <p>2.2 CH4 Fugitive Methane Emissions from Gas Distribution Operations (metric tons) 8,399 6,998 6,520</p> <p>2.2.1 CH4 Fugitive Methane Emissions from Gas Distribution Operations (MMSCF/year) 437.4619792 364.4755208 339.5630208</p> <p>2.3 Annual Natural Gas Throughput from Gas Distribution Operations in thousands of standard cubic feet (Mscf/year) 110,188,000 124,501,899 126,586,117</p> <p>2.3.1 Annual Methane Gas Throughput from Gas Distribution Operations in millions of standard cubic feet (MMscf/year) 104,678.600 118,276.803 120,256.811</p> <p>2.4 Fugitive Methane Emissions Rate (MMscf of Methane Emissions per MMscf of Methane Throughput) 0.004179097 0.003081547 0.002823649</p>								
<p>All methane leak sources per 98.232 (i) (1-6) are included for Distribution. Combustion sources are excluded. CO₂ is excluded.</p> <p>These metrics should include all local distribution companies (LDCs) held by the Parent Company that are above the LDC Facility reporting threshold for EPA's 40 C.F.R. 98, Subpart W reporting rule.</p> <p>Eversource's natural gas operations has zero bare cathodically-protected steel in its system. All of the company's cathodically-protected steel is coated.</p> <p>The company's Gas System Enhancement Program in Massachusetts was initiated in 2015 and is on pace to replace all aged non-cathodically protected steel, cast iron and wrought-iron natural gas distribution infrastructure in its Massachusetts service territories distribution system in about 20 more years. The Accelerated Replacement Program in Connecticut was initiated in 2011 and now calls for replacing the bare-steel and cast-iron mains in its Connecticut natural gas distribution system in 10 more years, and fully replace copper services and certain steel mains and services in about 13 more years. These programs have been approved by each state's regulatory agency.</p> <p>Optional: # yrs by pipe type. Optional: # yrs by pipe type.</p> <p>Fugitive methane emissions (not CO₂ combustion emissions) stated as CO₂e, as reported to EPA under 40 CFR 98, Subpart W, sections 98.236(a)(3)(ix)(D), 98.236(r)(1)(v), and 98.236(r)(2)(v)(B) - i.e., this is Subpart W methane emissions as input in row 2.2.1 below and converted to CO₂e here. This metric should include fugitive methane emissions above the reporting threshold for all natural gas local distribution companies (LDCs) held by the Parent Company that are above the LDC Facility reporting threshold for EPA's 40 C.F.R. 98, Subpart W reporting rule. Calculated value based on mt CH₄ input in the 2.2.1 (below).</p> <p>INPUT VALUE (total mt CH₄) as explained in definition above. Subpart W input is CH₄ (mt).</p> <p>This metric provides gas throughput from distribution (quantity of natural gas delivered to end users) reported under Subpart W, 40 C.F.R. 98.236(ae)(9)(v), as reported on the Subpart W e-GRRT integrated reporting form in the "Facility Overview" worksheet Excel form, Quantity of natural gas delivered to end users (column 4).</p> $\frac{E_c}{TP_c} = \frac{\text{tonnes CH}_4}{\text{MMscf gas}} \times \frac{10^6 \text{ g CH}_4}{\text{tonne CH}_4} \times \frac{\text{g mole CH}_4}{16 \text{ g CH}_4} \times \frac{\text{gmol Nat.Gas}}{0.95 \text{ gmol CH}_4} \times \frac{\text{scf gas}}{1.198 \text{ gmol gas}} \times \frac{\text{MMscf gas emissions}}{10^6 \text{ scf gas}} = 96$ $\frac{E_c}{TP_c} = \frac{\text{tonnes CH}_4}{\text{MMscf gas}} \times \frac{10^6 \text{ g CH}_4}{\text{tonne CH}_4} \times \frac{\text{g mole CH}_4}{16 \text{ g CH}_4} \times \frac{\text{gmol Nat.Gas}}{0.95 \text{ gmol CH}_4} \times \frac{\text{scf gas}}{1.198 \text{ gmol gas}} \times \frac{\text{MMscf gas emissions}}{10^6 \text{ scf gas}} = 96$ <p>MMscf gas throughput = 96</p>								

Natural Gas Transmission and Storage (see Comments)								
<p>1 Onshore Natural Gas Transmission Compression Methane Emissions</p> <p>1.1.1 Pneumatic Device Venting (metric tons/year)</p> <p>1.1.2 Blowdown Vent Stacks (metric tons/year)</p> <p>1.1.3 Transmission Storage Tanks (metric tons/year)</p> <p>1.1.4 Flare Stack Emissions (metric tons/year)</p> <p>1.1.5 Centrifugal Compressor Venting (metric tons/year)</p> <p>1.1.6 Reciprocating Compressor Venting (metric tons/year)</p> <p>1.1.7 Equipment leaks from valves, connectors, open ended lines, pressure relief valves, and meters (metric tons/year)</p> <p>1.1.8 Other Leaks (metric tons/year)</p> <p>1.2 Total Transmission Compression Methane Emissions (metric tons/year)</p>								
<p>All methane leak sources per 98.232 (e) (1-8), (f)(1-8), and (m) are included for Transmission and Storage. Combustion sources are excluded. CO₂ and N₂O are excluded.</p> <p>Fugitive Methane emissions as defined in 40 CFR 98 Sub W Section 232 (e) (1-8), CO₂ and N₂O emissions are excluded from this section.</p> <p>Value reported using calculation in 40 CFR 98 Sub W Section 236(b)(4)</p> <p>Value reported using calculation in 40 CFR 98 Sub W Section 236(i)(1)(iii)</p> <p>Value reported using calculation in 40 CFR 98 Sub W Section 236(k)(2)(v)</p> <p>Value reported using calculation in 40 CFR 98 Sub W Section 236(n)(11)</p> <p>Value reported using calculation in 40 CFR 98 Sub W Section 236(o)(2)(iii)(D)(2)</p> <p>Value reported using calculation in 40 CFR 98 Sub W Section 236(p)(2)(iii)(D)(2)</p> <p>Value reported using calculation in 40 CFR 98 Sub W Section 236(q)(2)(v)</p> <p>Value reported using calculation in 40 CFR 98 Sub W Section 236(q)(2)(v)</p>								

Eversource is not involved in the natural gas transmission and storage segments.

