



Electric Company ESG/Sustainability Quantitative Information

Parent Company:

Operating Company(s):

Business Type(s):

State(s) of Operation:

State(s) with RPS Programs:

Regulatory Environment:

Report Date:

Emera Inc.

Tampa Electric, Emera Maine, Nova Scotia Power, Emera Energy, Emera Newfoundland and Labrador, Grand Bahama Power Company, Barbados Light and Power Company Limited, Dominica Electricity Services Limited

All are vertically integrated electric utilities except for Emera Maine which is a transmission and distribution electric utility and Emera Energy Generation a wholly owned portfolio of electricity generation facilities

Florida, Maine, Connecticut, Rhode Island, Nova Scotia and Newfoundland and Labrador (Canada), Bahamas, Barbados, and Dominica

Maine, Connecticut, Rhode Island

Both (Regulated and Deregulated)

2019 Submission

Ref. No.	Refer to the 'EEI Definitions' tab for more information on each metric	Baseline 2005	Last Year 2017	Current Year 2018	Comments, Links, Additional Information, and Notes
Portfolio					
1	Owned Nameplate Generation Capacity at end of year (MW)		10,121	10,264	
1.1	Coal		3,048	3,048	
1.2	Natural Gas		5,129	5,129	
1.3	Nuclear		-	-	n/a
1.4	Petroleum		930	930	
1.5	Total Renewable Energy Resources				
1.5.1	Biomass/Biogas		93	93	
1.5.2	Geothermal		-	-	n/a
1.5.3	Hydroelectric		413	413	
1.5.4	Solar		35	178	
1.5.5	Wind		147	147	
1.6	Other		326	326	
2	Net Generation for the data year (MWh)		39,543,004	41,181,764	
2.1	Coal		11,456,640	9,022,510	
2.2	Natural Gas		18,500,376	23,101,996	
2.3	Nuclear		-	-	n/a
2.4	Petroleum		1,507,385	1,292,019	
2.5	Total Renewable Energy Resources				
2.5.1	Biomass/Biogas		244,635	293,952	
2.5.2	Geothermal		-	-	n/a
2.5.3	Hydroelectric		879,677	964,061	
2.5.4	Solar		58,195	136,848	
2.5.5	Wind		268,215	262,000	
2.6	Other		6,627,881	6,108,378	
2.i	Owned Net Generation for the data year (MWh)		34,482,077	35,622,940	
2.1.i	Coal		11,456,640	9,022,510	
2.2.i	Natural Gas		18,500,376	23,101,996	
2.3.i	Nuclear		-	-	n/a
2.4.i	Petroleum		1,507,385	1,292,019	
2.5.i	Total Renewable Energy Resources				
2.5.1.i	Biomass/Biogas		244,635	293,952	
2.5.2.i	Geothermal		-	-	n/a
2.5.3.i	Hydroelectric		879,677	964,061	
2.5.4.i	Solar		58,195	136,848	
2.5.5.i	Wind		268,215	262,000	
2.6.i	Other		1,566,954	549,554	



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2.ii	Purchased Net Generation for the data year (MWh)		5,060,927	5,558,824	Resource types are unknown due to market purchases
2.1.ii	Coal				
2.2.ii	Natural Gas				
2.3.ii	Nuclear				
2.4.ii	Petroleum				
2.5.ii	Total Renewable Energy Resources				
2.5.1.ii	Biomass/Biogas				
2.5.2.ii	Geothermal				
2.5.3.ii	Hydroelectric				
2.5.4.ii	Solar				
2.5.5.ii	Wind				
2.6.ii	Other				
3	Investing in the Future: Capital Expenditures, Energy Efficiency (EE), and Smart Meters				
3.1	Total Annual Capital Expenditures (nominal dollars)		\$ 1,537,000,000	\$ 2,178,000,000	
3.2	Incremental Annual Electricity Savings from EE Measures (MWh)		173,129	198,000	Electricity Savings from EE Measures include data for Emera affiliates Tampa Electric and Nova Scotia Power (NSPI).
3.3	Incremental Annual Investment in Electric EE Programs (nominal dollars)		\$ 34,028,921	\$ 34,934,926	Annual Investment in Electric EE Measures include data for Emera affiliates Tampa Electric and NSPI. NSPI includes 2.6% incremental fee on power rates that is allocated to EE Programs.
3.4	Percent of Total Electric Customers with Smart Meters (at end of year)		13	18	
4	Retail Electric Customer Count (at end of year)				
4.1	Commercial		173,486	176,884	
4.2	Industrial		5,981	6,005	
4.3	Residential		1,394,192	1,434,670	

Emissions					
5	GHG Emissions: Carbon Dioxide (CO2) and Carbon Dioxide Equivalent (CO2e)				
5.1	Owned Generation				
5.1.1	Carbon Dioxide (CO2)				
5.1.1.1	Total Owned Generation CO2 Emissions (MT)		21,231,477	20,764,606	
5.1.1.2	Total Owned Generation CO2 Emissions Intensity (MT/Net MWh)		0.616	0.583	
5.1.2	Carbon Dioxide Equivalent (CO2e)	27,770,819			
5.1.2.1	Total Owned Generation CO2e Emissions (MT)		21,481,248	20,878,607	
5.1.2.2	Total Owned Generation CO2e Emissions Intensity (MT/Net MWh)		0.623	0.586	
5.2	Purchased Power				
5.2.1	Carbon Dioxide (CO2)				
5.2.1.1	Total Purchased Generation CO2 Emissions (MT)		-	-	Emera does not have CO2 for purchased power.
5.2.1.2	Total Purchased Generation CO2 Emissions Intensity (MT/Net MWh)		-	-	Emera does not have CO2 for purchased power.
5.2.2	Carbon Dioxide Equivalent (CO2e)	4,683			
5.2.2.1	Total Purchased Generation CO2e Emissions (MT)		19,482	0	
5.2.2.2	Total Purchased Generation CO2e Emissions Intensity (MT/Net MWh)		0.004	0.000	
5.3	Owned Generation + Purchased Power				
5.3.1	Carbon Dioxide (CO2)				
5.3.1.1	Total Owned + Purchased Generation CO2 Emissions (MT)		-	-	Emera does not have CO2 for purchased power.
5.3.1.2	Total Owned + Purchased Generation CO2 Emissions Intensity (MT/Net MWh)		-	-	Emera does not have CO2 for purchased power.
5.3.2	Carbon Dioxide Equivalent (CO2e)				
5.3.2.1	Total Owned + Purchased Generation CO2e Emissions (MT)		21,500,730	20,878,607	
5.3.2.2	Total Owned + Purchased Generation CO2e Emissions Intensity (MT/Net MWh)		0.544	0.507	



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5.4	Non-Generation CO2e Emissions				
5.4.1	Fugitive CO2e emissions of sulfur hexafluoride (MT)		71,023	28,883	
5.4.2	Fugitive CO2e emissions from natural gas distribution (MT)		-	-	n/a
6	Nitrogen Oxide (NOx), Sulfur Dioxide (SO2), Mercury (Hg)				
6.1	Generation basis for calculation	Total			
6.2	Nitrogen Oxide (NOx)				
6.2.1	Total NOx Emissions (MT)		24,105	22,697	
6.2.2	Total NOx Emissions Intensity (MT/Net MWh)		0.000699	0.000637	
6.3	Sulfur Dioxide (SO2)				
6.3.1	Total SO2 Emissions (MT)		81,521	78,669	
6.3.2	Total SO2 Emissions Intensity (MT/Net MWh)		0.002364	0.002208	
6.4	Mercury (Hg)				
6.4.1	Total Hg Emissions (kg)		76.8	75.0	
6.4.2	Total Hg Emissions Intensity (kg/Net MWh)		0.000002	0.000002	

Resources

7	Human Resources				
7.1	Total Number of Employees		7,500	7,500	
7.2	Total Number on Board of Directors/Trustees		12	12	
7.3	Total Women on Board of Directors/Trustees		4	4	
7.4	Total Minorities on Board of Directors/Trustees		-	-	Not tracked.
7.5	Employee Safety Metrics				
7.5.1	Recordable Incident Rate		1.49	1.29	
7.5.2	Lost-time Case Rate		0.42	0.35	
7.5.3	Days Away, Restricted, and Transfer (DART) Rate		37.30	36.52	
7.5.4	Work-related Fatalities		1	0	Emera had 5 contractor fatalities in 2017.
8	Fresh Water Resources				
8.1	Water Withdrawals - Consumptive (Billions of Liters/Net MWh)		2.62E-07	2.63E-07	
8.2	Water Withdrawals - Non-Consumptive (Billions of Liters/Net MWh)		0	0	
9	Waste Products				
9.1	Amount of Hazardous Waste Manifested for Disposal		77	120	At Emera we focus on reducing waste at its source and minimizing the amount of non-hazardous and hazardous waste that is produced and in need of disposal. Despite the magnitude and complexity of electric operations, our efforts result in a relatively small quantity of hazardous waste. All waste is managed appropriately. As Emera's sustainability program continues to improve, efforts are being made to improve data collection of waste numbers. Prior to 2018, only PCB Solid Waste is included as hazardous waste.
9.2	Percent of Coal Combustion Products Beneficially Used		55%	4%	Ash waste composted, reused, recycled or recovered is measured at coal-fired generation stations at NSPI and Tampa Electric only. Tampa Electric began a number of closure projects in accordance with the Disposal of Coal Combustion Residuals from Electric Utilities Rule. As a result of these projects quantities of accumulated ash for repurpose reported in previous years is much greater when compared to the reported percentage in 2018.



Gas Company ESG/Sustainability Quantitative Information

Parent Company: Emera Inc.
Operating Company(s): Peoples Gas System, New Mexico Gas Company

Business Type(s): Wholly owned subsidiaries of Emera Inc.
State(s) of Operation: Florida, New Mexico
Regulatory Environment: Regulated
Report Date: 2019 Submission

Ref. No.	Refer to the "Definitions" column for more information on each metric.	Baseline	Last Year	Current Year	Comments
		2011	2017	2018	
Natural Gas Distribution					
					Summary of disclosures as reported to the EPA under 40 CFR 98, Subpart W, Petroleum and Natural Gas Systems
1	METHANE EMISSIONS AND MITIGATION FROM DISTRIBUTION MAINS				
1.1	Number of Gas Distribution Customers	539,918	873,942	890,801	
1.2	Distribution Mains in Service				
1.2.1	Plastic (miles)	11,687	14,175	13,486	
1.2.2	Cathodically Protected Steel - Bare & Coated (miles)	9,203	9,195	10,456	
1.2.3	Unprotected Steel - Bare & Coated (miles)	376	177	126	
1.2.4	Cast Iron / Wrought Iron - without upgrades (miles)	113	29	18	
1.3	Plan/Commitment to Replace / Upgrade Remaining Miles of Distribution Mains (# years to complete)				These metrics provide the number of years remaining to take out of service, replace or upgrade cathodically unprotected steel mains, and cast iron/wrought iron mains.
1.3.1	Unprotected Steel (Bare & Coated) (# years to complete)	10	4	3	
1.3.2	Cast Iron / Wrought Iron (# years to complete)	10	4	3	
2	Distribution CO₂e Fugitive Emissions				
2.1	Fugitive Methane Emissions from Gas Distribution Operations (metric tons CO ₂ e)	141,561	122,089	119,161	
2.2	Fugitive Methane Emissions from Gas Distribution Operations (metric tons CO ₂ e)	5,662	4,884	4,766	
2.2.1	Fugitive Methane Emissions from Gas Distribution Operations (MMSCF/year)	295	254	248	
2.3	Annual Natural Gas Throughput from Gas Distribution Operations in <u>thousands</u> of standard cubic feet (Mscf/year)	199,814,086	224,944,000	246,336,659	This metric provides gas throughput from distribution, which is the quantity of natural gas delivered to end users on an annual basis.
2.3.1	Annual Methane Gas Throughput from Gas Distribution Operations in <u>millions</u> of standard cubic feet (MMscf/year)	189,823	213,697	234,020	Assumes 95% methane content in natural gas for distribution as noted in 2.3
2.4	Fugitive Methane Emissions Rate (MMscf of Methane Emissions per MMscf of Methane Throughput)	0.16%	0.12%	0.11%	
Natural Gas Transmission and Storage					
3	Onshore Natural Gas Transmission Pipeline Blowdowns				Emissions from blowdown vent stacks for onshore transmission pipelines, excluding CO ₂ and N ₂ O emissions.
3.1	Transmission Pipeline Blowdown Vent Stacks (metric tons/year)		908	86	
3.2	Transmission Pipeline Blowdown Vent Stacks (CO ₂ e/year)		22,700	2,145	
3.3	Transmission Pipeline Blowdown Vent Stacks (MSCF/year)		47,292	4,469	
5	Summary and Metrics				
5.1	Total Transmission and Storage Methane Emissions (MMSCF/year)		47	4	