



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 RFS 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 2005	Last Year 2017	Current Year 2018	Next Year 2019	Future Year 2045	Comments, Links, Additional Information, and Notes	
Portfolio								
1	Owned Nameplate Generation Capacity at end of year (MW)							
1.1	Coal		9,406	9,270	3,093		Net demonstrated capacity as reported in FE's 10-K Filing 2019 data represents anticipated year end nameplate capacity	
1.2	Natural Gas		1,327	545	0			
1.3	Nuclear		4,048	4,048	0			
1.4	Petroleum		179	59	0			
1.5	Total Renewable Energy Resources							
1.5.1	Biomass/Biogas		0	0	0			
1.5.2	Geothermal		0	0	0			
1.5.3	Hydroelectric		1,410	1,410	697			
1.5.4	Solar		0	0	0			
1.5.5	Wind		0	0	0			
1.6	Other		0	0	0			
Use the data organizer on the left (i.e., the plus/minus symbol) to open/close the alternative generation reporting options								
Net Generation for the data year (MWh)			116,315,158	109,322,672				
2.1	Coal							Net generation data as reported on EIA's Form 923, and FE's internal numbers
2.2	Natural Gas							
2.3	Nuclear							
2.4	Petroleum							
2.5	Total Renewable Energy Resources							
2.5.1	Biomass/Biogas							
2.5.2	Geothermal							
2.5.3	Hydroelectric							
2.5.4	Solar							
2.5.5	Wind							
2.6	Other							
Use the data organizer on the left (i.e., the plus/minus symbol) to open/close the alternative generation reporting options								
2.1	Owned Net Generation for the data year (MWh)						Total Purchased Generation as found in FE's FERC Form 1's. MWh purchased from an FE owned company were removed to avoid double counting of emissions. Regional eGRID emission factors used in the calculation.	
2.1.i	Coal		42,028,983	34,240,820				
2.1.j	Natural Gas		4,104,592	0				
2.1.k	Nuclear		32,999,296	32,944,220				
2.1.l	Petroleum		-4,920	45,239				
2.1.m	Total Renewable Energy Resources							
2.1.n	Biomass/Biogas		0	0				
2.1.o	Geothermal		0	0				
2.1.p	Hydroelectric		-596,012	-115,190				
2.1.q	Solar		0	0				
2.1.r	Wind		0	0				
2.1.s	Other		0	0				
2.1.t								
2.1.u								
2.1.v								
2.1.w								
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2.1.bg								
2.1.bh								
2.1.bi								
2.1.bj								
2.1.bk								
2.1.bl								
2.1.bl	Purchased Net Generation for the data year (MWh)		37,783,219	42,207,583				
2.1.ii	Coal							
2.1.iii	Natural Gas							
2.1.iv	Nuclear							
2.1.v	Petroleum							
2.1.vi	Total Renewable Energy Resources							
2.1.vii	Biomass/Biogas							
2.1.viii	Geothermal							
2.1.ix	Hydroelectric							
2.1.x	Solar							
2.1.xi	Wind							
2.1.xii	Other							
3	Investing in the Future: Capital Expenditures, Energy Efficiency (EE), and Smart Meters							
3.1	Total Annual Capital Expenditures (nominal dollars)		\$ 2,751,000,000	\$2,983,000,000				
3.2	Incremental Annual Electricity Savings from EE Measures (MWh)		1,330,680	1,627,000				
3.3	Incremental Annual Investment in Electric EE Programs (nominal dollars)		\$ 139,118,000	\$ 161,649,093				
3.4	Percent of Total Electric Customers with Smart Meters (at end of year)		23%	33%				
4	Retail Electric Customer Count (at end of year)							
4.1	Commercial		712,168	735,242				
4.2	Industrial		30,771	19,538				
4.3	Residential		5,307,210	5,342,283				



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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.						
5.1	Owned Generation (1) (2) (3)						
5.1.1	Carbon Dioxide (CO2)						
5.1.1.1	Total Owned Generation CO2 Emissions (MT)	86,403,130	42,162,660	32,573,923		8,640,313	GHG emissions for 2017 and 2018 as reported for EPA's GHG MRR.
5.1.1.2	Total Owned Generation CO2 Emissions Intensity (MT/Net MWh)		0.537	0.485			
5.1.2	Carbon Dioxide Equivalent (CO2e)						
5.1.2.1	Total Owned Generation CO2e Emissions (MT)		42,354,899	32,748,805			
5.1.2.2	Total Owned Generation CO2e Emissions Intensity (MT/Net MWh)		0.539	0.488			
5.2	Purchased Power (4)						
5.2.1	Carbon Dioxide (CO2)						Purchase Power: calculated based on power purchased for delivery to customers as described on FERC Form 1's. MWh purchased from an FE owned company were removed to avoid double counting of emissions. Regional eGRID emission factors used in the calculation.
5.2.1.1	Total Purchased Generation CO2 Emissions (MT)		17,971,063	20,097,650			
5.2.1.2	Total Purchased Generation CO2 Emissions Intensity (MT/Net MWh)		0.476	0.299			
5.2.2	Carbon Dioxide Equivalent (CO2e)						
5.2.2.1	Total Purchased Generation CO2e Emissions (MT)		18,079,772	20,223,892			
5.2.2.2	Total Purchased Generation CO2e Emissions Intensity (MT/Net MWh)		0.479	0.301			
5.3	Owned Generation + Purchased Power						
5.3.1	Carbon Dioxide (CO2)						
5.3.1.1	Total Owned + Purchased Generation CO2 Emissions (MT)		60,133,723	52,671,573			
5.3.1.2	Total Owned + Purchased Generation CO2 Emissions Intensity (MT/Net MWh)		0.517	0.785			
5.3.2	Carbon Dioxide Equivalent (CO2e)						
5.3.2.1	Total Owned + Purchased Generation CO2e Emissions (MT)		60,434,671	52,972,697			
5.3.2.2	Total Owned + Purchased Generation CO2e Emissions Intensity (MT/Net MWh)		0.520	0.789			
5.4	Non-Generation CO2e Emissions						
5.4.1	Fugitive CO2e emissions of sulfur hexafluoride (MT) (5)		119,182	120,587			
5.4.2	Fugitive CO2e emissions from natural gas distribution (MT) (6)						
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)		39,456	34,207			
6.2.2	Total NOx Emissions Intensity (MT/Net MWh)		0.000502	0.000510			
6.3	Sulfur Dioxide (SO2)						
6.3.1	Total SO2 Emissions (MT)		32,094	31,810			
6.3.2	Total SO2 Emissions Intensity (MT/Net MWh)		0.000436	0.000474			
6.4	Mercury (Hg)						
6.4.1	Total Hg Emissions (kg)		119.8	83.6			
6.4.2	Total Hg Emissions Intensity (kg/Net MWh)		0.000002	0.000001			

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		15,617	14,970			
7.2	Total Number on Board of Directors/Trustees		14	13			
7.3	Total Women on Board of Directors/Trustees		3	4			
7.4	Total Minorities on Board of Directors/Trustees		4	5			
7.5	Employee Safety Metrics						
7.5.1	Recordable Incident Rate		0.99	0.80			
7.5.2	Lost-time Case Rate		0.29	0.25			
7.5.3	Days Away, Restricted, and Transfer (DART) Rate		0.50	0.45			
7.5.4	Work-related Fatalities		2.00	0.00			
8	Fresh Water Resources						
8.1	Water Withdrawals - Consumptive (Billions of Liters/Net MWh)		0.0000021	0.0000022			
8.2	Water Withdrawals - Non-Consumptive (Billions of Liters/Net MWh)		0.0000204	0.0000172			
9	Waste Products						
9.1	Amount of Hazardous Waste Manifested for Disposal		180	537			
9.2	Percent of Coal Combustion Products Beneficially Used		55	34			
Additional Metrics (Optional)							
<i>Insert additional rows in this section as necessary.</i>							