

Entergy Corporation EEI ESG/Sustainability Metrics - Quantitative Information

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Parent Company: Entergy Corporation
Operating Company(s): Entergy Arkansas, LLC, Entergy Louisiana, LLC, Entergy Mississippi, LLC, Entergy New Orleans, LLC, Entergy Texas, Inc., System Energy Resources, Inc., EWC Owned Companies
Business Type(s): Vertically Integrated Utility; Additional Wholesale Generation
State(s) of Operation: Arkansas, Louisiana, Massachusetts, Michigan, Mississippi, New York, Texas, Massachusetts, Michigan, New York, Texas, Vermont
State(s) with RPS Programs: Massachusetts, Michigan, New York, Texas, Vermont
Regulatory Environment: Both regulated and deregulated
Report Date: March 2019

Ref. No.	Refer to the Definitions tab for more information on each metric	Third Party Verified	Baseline 2000 <i>Actual</i>	2016 <i>Actual</i>	2017 <i>Actual</i>	2018 <i>Actual</i>	Comments, Links, Additional Information, and Notes
Entergy Portfolio							
1	Owned Nameplate Generation Capacity at end of year (MW)		27,873	27,181	25,731	25,233	
1.1	Coal		2,492	2,421	2,410	2,411	
1.2	Natural Gas		18,042	15,058	14,452	13,975	
1.3	Nuclear		7,269	9,628	8,796	8,772	
1.4	Petroleum						
1.5	Total Renewable Energy Resources						
1.5.1	Biomass/Biogas						
1.5.2	Geothermal						
1.5.3	Hydroelectric		70	74	71	73	
1.5.4	Solar				2	2	
1.5.5	Wind						
1.6	Other						
2	Net Generation for the data year (MWh)		95,352,707	133,076,000	122,244,000	129,222,000	2000 breakdown is for utility only (95,352,707).
2.1	Coal		14,799,825	9,164,000	10,730,000	11,848,000	
2.2	Natural Gas		44,723,842	51,976,000	46,221,000	51,097,000	
2.3	Nuclear		35,696,435	69,422,000	62,873,000	63,859,000	
2.4	Petroleum						
2.5	Total Renewable Energy Resources						
2.5.1	Biomass/Biogas						
2.5.2	Geothermal						
2.5.3	Hydroelectric		132,605	184,000	93,000	160,000	
2.5.4	Solar				4,000		
2.5.5	Wind						
2.6	Other (EWC non-nuclear)			2,330,000	2,323,000	2,258,000	
3	Investing in the Future: Capital Expenditures, Energy Efficiency (EE), and Smart Meters						
3.1	Total Annual Capital Expenditures (nominal dollars)		1,732,000,000	3,730,000,000	3,624,000,000	3,969,000,000	
3.2	Incremental Annual Savings from EE Measures (MWh, at end of year)	Yes	0	394,478	404,199	424,000	Verified via Evaluation, Measurement and Verification process (OpCo DSM); 2018 forecasted
3.3	Cumulative Investment in EE Programs (nominal dollars, at end of year)	Yes	0	85,900,000	85,300,000	96,700,000	Verified via Evaluation, Measurement and Verification process (OpCo DSM); 2018 forecasted
3.4	Percent of Total Electric Customers with Advanced Meters (at end of year)		0.00	0.60	0.60	0.60	U.S. EIA data (thru 2017); regulatory approvals for full AMI deployment beginning early 2019
4	Retail Customer Count (at end of year)						
4.1	Commercial		292,926	352,147	354,189	356,618	
4.2	Industrial		39,503	46,252	46,193	45,790	
4.3	Residential		2,209,265	2,452,686	2,466,671	2,481,027	
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)	Yes	48,263,040	34,805,542	32,723,174	36,234,230	Based on Entergy's submittal under GHG Mandatory Reporting Rule.

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			2000 Actual	Actual	Actual	Actual	
5.1.1.2	Total Owned Generation CO2 Emissions Intensity (MT/Net MWh)		0.475	0.261	0.267	0.280	According to the 2018 Benchmarking Air Emissions Report , Entergy is the sixth-largest of the top 100 power producers. At the same time, Entergy ranks fifth in the production of zero-emitting energy. Entergy's CO2 emission rate is the fourth lowest among the top 20 privately owned and investor-owned power producers.
5.1.2	Carbon Dioxide Equivalent (CO2e)						
5.1.2.1	Total Owned Generation CO2e Emissions (MT)	Yes	48,432,554	34,954,145	32,808,218	36,327,791	
5.1.2.2	Total Owned Generation CO2e Emissions Intensity (MT/Net MWh)		0.508	0.263	0.268	0.281	
5.2	Purchased Power						Purchased power does not include MISO market purchases.
5.2.1	Carbon Dioxide (CO2)						
5.2.1.1	Total Purchased Generation CO2 Emissions (MT)	Yes	14,523,454	10,873,665	9,801,115	6,021,987	
5.2.1.2	Total Purchased Generation CO2 Emissions Intensity (MT/Net MWh)		0.604	0.366	0.281	0.166	
5.2.2	Carbon Dioxide Equivalent (CO2e)						
5.2.2.1	Total Purchased Generation CO2e Emissions (MT)	Yes	14,579,150	10,929,083	9,839,203	6,045,389	
5.2.2.2	Total Purchased Generation CO2e Emissions Intensity (MT/Net MWh)		0.606	0.368	0.282	0.167	
5.3	Owned Generation + Purchased Power						
5.3.1	Carbon Dioxide (CO2)						
5.3.1.1	Total Owned + Purchased Generation CO2 Emissions (MT)	Yes	62,786,494	45,679,207	42,524,289	42,256,217	
5.3.1.2	Total Owned + Purchased Generation CO2 Emissions Intensity (MT/Net MWh)		0.526	0.281	0.271	0.255	
5.3.2	Carbon Dioxide Equivalent (CO2e)						
5.3.2.1	Total Owned + Purchased Generation CO2e Emissions (MT)	Yes	63,011,704	45,883,228	42,647,421	42,373,180	
5.3.2.2	Total Owned + Purchased Generation CO2e Emissions Intensity (MT/Net MWh)		0.528	0.282	0.272	0.256	
5.4	Non-Generation CO2e Emissions						
5.4.1	Fugitive CO2e emissions of sulfur hexafluoride (MT)	Yes	329,129	104,453	205,229	17,588	
5.4.2	Fugitive CO2e emissions from natural gas distribution (MT)	Yes	104,682	75,009	69,265	63,718	
6	Nitrogen Oxide (NOx), Sulfur Dioxide (SO2), Mercury (Hg)						
6.1	Generation basis for calculation (See definitions tab for explanation)						
6.2	Nitrogen Oxide (NOx)						
6.2.1	Total NOx Emissions (MT)	Yes	93,006	36,485	27,504	25,908	
6.2.2	Total NOx Emissions Intensity (MT/Net MWh)		9.75E-04	2.74E-04	2.25E-04	2.00E-04	
6.3	Sulfur Dioxide (SO2)						
6.3.1	Total SO2 Emissions (MT)	Yes	84,710	29,553	31,772	34,384	
6.3.2	Total SO2 Emissions Intensity (MT/Net MWh)		8.88E-04	2.22E-04	2.60E-04	2.66E-04	
6.4	Mercury (Hg)						
6.4.1	Total Hg Emissions (kg)	Yes	434.5	118.8	38.6	43.0	
6.4.2	Total Hg Emissions Intensity (kg/Net MWh)		4.56E-06	8.93E-07	3.16E-07	3.32E-07	
Use the data organizer on the left (i.e., the plus symbol) to open the Emissions Notes Section							
Resources							
7	Human Resources						
7.1	Total Number of Employees		14,100	13,513	13,504	13,688	
7.2	Total Number on Board of Directors/Trustees		14	11	11	10	
7.3	Total Women on Board of Directors/Trustees		2	4	4	4	
7.4	Total Minorities on Board of Directors/Trustees		3	4	4	1	
7.5	Employee Safety Metrics						
7.5.1	Recordable Incident Rate		1.72	0.69	0.56	0.49	
7.5.2	Lost-time Case Rate		0.31	0.22	0.14	0.12	
7.5.3	Days Away, Restricted, and Transfer (DART) Rate		0.60	0.32	0.26	0.20	
7.5.4	Work-related Fatalities		0.00	1.00	0.00	0.00	

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8	Fresh Water Resources						
8.1	Water Withdrawals - Consumptive (Billions of Liters/MWh)	Yes	Not Available	1.85E-06	1.19E-06	1.05E-06	In 2016, Entergy updated the method for determining water use, so prior years are not provided.
8.2	Water Withdrawals - Non-consumptive (Billions of Liters/MWh)	Yes	Not Available	5.75E-05	5.33E-05	4.57E-05	
9	Waste Products						
9.1	Amount of Hazardous Waste Manifested for Disposal	Yes	Not Available	37.6	36.4	23.6	Records going back to 2000 not available for hazardous waste and CCR. Over the years, Entergy has had a consistent record of recycling a significant percentage of CCRs and reducing the amount of hazardous waste generated. For CCR, these numbers represent total units production of CCR, not ownership share. CCR values do not include ash from NISCO Plant that Entergy operates but does not own.
9.2	Percent of Coal Combustion Products (CCPs) Beneficially Used	Yes	Not Available	58.5	87.1	72.7	
Additional Sustainability Metrics/Information							
For EEI ESG/Sustainability qualitative information, see entergy.com/sustainability Additional sustainability metrics provided in Entergy's Performance Data Table . Please direct all inquiries to entergy.com/integratedcontact .							