

Entergy Corporation EEI ESG/Sustainability Metrics - Quantitative Information

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Parent Company: *Entergy Corporation*
Operating Company(s): *Entergy Arkansas, Inc., Entergy Louisiana, LLC., Entergy Mississippi, Inc., 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, Nebraska, New York, Texas, Vermont*
State(s) with RPS Programs: *Massachusetts, Michigan, New York, Texas, Vermont*
Regulatory Environment: *Both regulated and deregulated*
Report Date: *March 2018 (Revised July 2018)*

| Ref. No. | Refer to the Definitions tab for more information on each metric | Third Party Verified | Baseline | 2016 | 2017 | Comments, Links, Additional Information, and Notes |
|--------------------------|--|----------------------|-----------------------|---------------|---------------|---|
| | | | 2000 <i>Actual</i> | <i>Actual</i> | <i>Actual</i> | |
| Entergy Portfolio | | | | | | |
| 1 | Owned Nameplate Generation Capacity at end of year (MW) | | 27,873 | 27,181 | 25,731 | |
| 1.1 | Coal | | 2,492 | 2,421 | 2,410 | |
| 1.2 | Natural Gas | | 18,042 | 15,058 | 14,452 | |
| 1.3 | Nuclear | | 7,269 | 9,628 | 8,796 | |
| 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 | |
| 1.5.4 | Solar | | | | 2 | |
| 1.5.5 | Wind | | | | | |
| 1.6 | Other | | | | | |
| 2 | Net Generation for the data year (MWh) | | 95,352,707 | 133,076,000 | 122,240,000 | 2000 breakdown is for utility only (95,352,707). |
| 2.1 | Coal | | 14,799,825 | 9,164,000 | 10,730,000 | |
| 2.2 | Natural Gas | | 44,723,842 | 51,976,000 | 46,221,000 | |
| 2.3 | Nuclear | | 35,696,435 | 69,422,000 | 62,873,000 | |
| 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 | |
| 2.5.4 | Solar | | | | | |
| 2.5.5 | Wind | | | | | |
| 2.6 | Other (EWC non-nuclear) | | | 2,330,000 | 2,323,000 | |
| 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 | |
| 3.2 | Incremental Annual Savings from EE Measures (MWh, at end of year) | | 0 | 394,478 | 355,762 | |
| 3.3 | Cumulative Investment in EE Programs (nominal dollars, at end of year) | | 0 | 86,000,000 | 92,000,000 | |
| 3.4 | Percent of Total Electric Customers with Smart Meters (at end of year) | | 0.0% | 0.6% | 0.6% | U.S. EIA data; regulatory approvals for full AMI deployment beginning 2019. |
| 4 | Retail Customer Count (at end of year) | | | | | |
| 4.1 | Commercial | | 292,926 | 352,147 | 354,189 | |
| 4.2 | Industrial | | 39,503 | 46,252 | 46,193 | |
| 4.3 | Residential | | 2,209,265 | 2,452,686 | 2,466,671 | |
| Emissions | | | | | | |

| Ref. No. | Refer to the Definitions tab for more information on each metric | Third Party Verified | Baseline | 2016 | 2017 | Comments, Links, Additional Information, and Notes |
|---|---|----------------------|-----------------------|---------------|---------------|--|
| | | | 2000 <i>Actual</i> | <i>Actual</i> | <i>Actual</i> | |
| 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 | Based on Entergy's submittal under GHG Mandatory Reporting Rule. EIA's National Industry Average CO2 Intensity in 2016 was 0.472 MT/Net MWh. According to a Benchmarking Air Emissions report , Entergy produces fewer CO2 emissions than 79 of the top 100 power producers. |
| 5.1.1.2 | Total Owned Generation CO2 Emissions Intensity (MT/Net MWh) | | 0.506 | 0.262 | 0.268 | |
| 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 | |
| 5.1.2.2 | Total Owned Generation CO2e Emissions Intensity (MT/Net MWh) | | 0.508 | 0.263 | 0.268 | |
| 5.2 | Purchased Power | | | | | |
| 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 | Purchased power does not include MISO market purchases. |
| 5.2.1.2 | Total Purchased Generation CO2 Emissions Intensity (MT/Net MWh) | | 0.604 | 0.366 | 0.281 | |
| 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 | |
| 5.2.2.2 | Total Purchased Generation CO2e Emissions Intensity (MT/Net MWh) | | 0.606 | 0.368 | 0.282 | |
| 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 | |
| 5.3.1.2 | Total Owned + Purchased Generation CO2 Emissions Intensity (MT/Net MWh) | | 0.526 | 0.286 | 0.275 | |
| 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 | |
| 5.3.2.2 | Total Owned + Purchased Generation CO2e Emissions Intensity (MT/Net MWh) | | 0.528 | 0.288 | 0.275 | |
| 5.4 | Non-Generation CO2e Emissions | | | | | |
| 5.4.1 | Fugitive CO2e emissions of sulfur hexafluoride (MT) | Yes | 329,129 | 104,453 | 205,229 | |
| 5.4.2 | Fugitive CO2e emissions from natural gas distribution (MT) | Yes | 104,682 | 75,009 | 69,265 | |
| 6 | Nitrogen Oxide (NOx), Sulfur Dioxide (SO2), Mercury (Hg) | | | | | |
| 6.1 | Generation basis for calculation (See definitions tab for explanation) | | | Total | | |
| 6.2 | Nitrogen Oxide (NOx) | | | | | |
| 6.2.1 | Total NOx Emissions (MT) | Yes | 93,006 | 36,485 | 27,504 | EIA's National Industry Average NOx Intensity in 2016 was 4.08E-04 MT/Net MWh. According to a Benchmarking Air Emissions report , Entergy produces fewer NOx emissions than 51 of the top 100 power producers. |
| 6.2.2 | Total NOx Emissions Intensity (MT/Net MWh) | | 9.75E-04 | 2.74E-04 | 2.25E-04 | |
| 6.3 | Sulfur Dioxide (SO2) | | | | | |
| 6.3.1 | Total SO2 Emissions (MT) | Yes | 84,710 | 29,553 | 31,772 | EIA's National Industry Average SOx Intensity in 2016 was 4.54E-04 MT/Net MWh. According to a Benchmarking Air Emissions report , Entergy produces fewer SOx emissions than 50 of the top 100 power producers. |
| 6.3.2 | Total SO2 Emissions Intensity (MT/Net MWh) | | 8.88E-04 | 2.22E-04 | 2.60E-04 | |
| 6.4 | Mercury (Hg) | | | | | |
| 6.4.1 | Total Hg Emissions (kg) | Yes | 434.5 | 118.8 | 38.6 | Refer to Benchmarking Air Emissions report for more details. |
| 6.4.2 | Total Hg Emissions Intensity (kg/Net MWh) | | 4.56E-06 | 8.93E-07 | 3.16E-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 | |
| 7.2 | Total Number on Board of Directors/Trustees | | 14 | 11 | 11 | |

| Ref. No. | Refer to the Definitions tab for more information on each metric | Third Party Verified | Baseline | 2016 | 2017 | Comments, Links, Additional Information, and Notes |
|--|--|----------------------|-----------------------|---------------|---------------|---|
| | | | 2000 <i>Actual</i> | <i>Actual</i> | <i>Actual</i> | |
| 7.3 | Total Women on Board of Directors/Trustees | | 2 | 4 | 4 | Target Zero is Entergy's aspirational goal for safety. Additional information can be found in our 2017 Integrated Report, pages 15, 39-40. |
| 7.4 | Total Minorities on Board of Directors/Trustees | | 3 | 4 | 4 | |
| 7.5 | Employee Safety Metrics | | | | | |
| 7.5.1 | Recordable Incident Rate | | 1.72 | 0.67 | 0.56 | |
| 7.5.2 | Lost-time Case Rate | | 0.31 | 0.22 | 0.13 | |
| 7.5.3 | Days Away, Restricted, and Transfer (DART) Rate | | 0.60 | 0.32 | 0.26 | |
| 7.5.4 | Work-related Fatalities | | 0.00 | 1.00 | 0.00 | |
| 8 | Fresh Water Resources | | | | | In 2016, Entergy updated the method for determining water use, so prior years are not provided. |
| 8.1 | Water Withdrawals - Consumptive (Billions of Liters/MWh) | Yes | Not Available | 1.85E-06 | 1.19E-06 | |
| 8.2 | Water Withdrawals - Non-consumptive (Billions of Liters/MWh) | Yes | Not Available | 5.75E-05 | 5.33E-05 | |
| 9 | Waste Products | | | | | Records going back to 2000 are 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. |
| 9.1 | Amount of Hazardous Waste Manifested for Disposal | Yes | Not Available | 37.6 | 36.4 | |
| 9.2 | Percent of Coal Combustion Products (CCPs) Beneficially Used | Yes | Not Available | 58.5 | 87.1 | |
| Additional Sustainability Metrics/Information | | | | | | |
| For EEI ESG/Sustainability qualitative information, see pages 54 and 55, at integratedreport.entergy.com | | | | | | |
| Additional sustainability metrics provided in Entergy's Performance Data Table . | | | | | | |
| Please direct all inquiries to entergy.com/integratedcontact . | | | | | | |

Definitions for Entergy's ESG/Sustainability Metrics

| Ref. No. | Metric Name | Definition | Units Reported in | Time Period (if applicable) | Reference to Source (if applicable) |
|--------------------------|--|---|--|-----------------------------|---|
| Utility Portfolio | | | | | |
| 1 | Owned Nameplate Generation Capacity at end of year (MW) | Summation of the nameplate capacity of installed owned generation in the company portfolio, as reported to the U.S. Energy Information Administration (EIA) on Form 860 Generator Information . Note that data should be provided in terms of equity ownership for shared facilities. Nameplate capacity is defined as the maximum rated output of a generator, prime mover, or other electric power production equipment under specific conditions designated by the manufacturer. Installed generator nameplate capacity is commonly expressed in megawatts (MW) and is usually indicated on a nameplate physically attached to the generator. | Megawatt (MW): One million watts of electricity. | End of Year | U.S. Energy Information Administration, <i>Online Glossary</i> , https://www.eia.gov/tools/glossary/ . Form 860 instructions available at: www.eia.gov/survey/form/eia_860/instructions.pdf . |
| 1.1 | Coal | Nameplate capacity of generation resources that produce electricity through the combustion of coal (a readily combustible black or brownish-black rock whose composition, including inherent moisture, consists of more than 50 percent by weight and more than 70 percent by volume of carbonaceous material. It is formed from plant remains that have been compacted, hardened, chemically altered, and metamorphosed by heat and pressure over geologic time). | MW | End of Year | U.S. Energy Information Administration, <i>Online Glossary</i> , https://www.eia.gov/tools/glossary/ . |
| 1.2 | Natural Gas | Nameplate capacity of generation resources that produce electricity through the combustion of natural gas (a gaseous mixture of hydrocarbon compounds, the primary one being methane). | MW | End of Year | U.S. Energy Information Administration, <i>Online Glossary</i> , https://www.eia.gov/tools/glossary/ . |
| 1.3 | Nuclear | Nameplate capacity of generation resources that produce electricity through the use of thermal energy released from the fission of nuclear fuel in a reactor. | MW | End of Year | U.S. Energy Information Administration, <i>Online Glossary</i> , https://www.eia.gov/tools/glossary/ . |
| 1.4 | Petroleum | Nameplate capacity of generation resources that produce electricity through the combustion of petroleum (a broadly defined class of liquid hydrocarbon mixtures. Included are crude oil, lease condensate, unfinished oils, refined products obtained from the processing of crude oil, and natural gas plant liquids). | MW | End of Year | U.S. Energy Information Administration, <i>Online Glossary</i> , https://www.eia.gov/tools/glossary/ . |
| 1.5 | Total Renewable Energy Resources | Energy resources that are naturally replenishing but flow-limited. They are virtually inexhaustible in duration but limited in the amount of energy that is available per unit of time. Renewable energy resources include biomass, hydro, geothermal, solar, wind, ocean thermal, wave action, and tidal action. | MW | End of Year | U.S. Energy Information Administration, <i>Online Glossary</i> , https://www.eia.gov/tools/glossary/ . |
| 1.5.1 | Biomass/Biogas | Nameplate capacity of generation resources that produce electricity through the combustion of biomass (an organic nonfossil material of biological origin constituting a renewable energy source). | MW | End of Year | U.S. Energy Information Administration, <i>Online Glossary</i> , https://www.eia.gov/tools/glossary/ . |
| 1.5.2 | Geothermal | Nameplate capacity of generation resources that produce electricity through the use of thermal energy released from hot water or steam extracted from geothermal reservoirs in the earth's crust. | MW | End of Year | U.S. Energy Information Administration, <i>Online Glossary</i> , https://www.eia.gov/tools/glossary/ . |
| 1.5.3 | Hydroelectric | Nameplate capacity of generation resources that produce electricity through the use of flowing water. | MW | End of Year | U.S. Energy Information Administration, <i>Online Glossary</i> , https://www.eia.gov/tools/glossary/ . |
| 1.5.4 | Solar | Nameplate capacity of generation resources that produce electricity through the use of the radiant energy of the sun, which can be converted into other forms of energy, such as heat or electricity. | MW | End of Year | U.S. Energy Information Administration, <i>Online Glossary</i> , https://www.eia.gov/tools/glossary/ . |
| 1.5.5 | Wind | Nameplate capacity of generation resources that produce electricity through the use of kinetic energy present in wind motion that can be converted to mechanical energy for driving pumps, mills, and electric power generators. | MW | End of Year | U.S. Energy Information Administration, <i>Online Glossary</i> , https://www.eia.gov/tools/glossary/ . |
| 1.6 | Other | Nameplate capacity of generation resources that are not defined above. | MW | End of Year | |
| 2 | Net Generation for the data year (MWh) | Summation of the amount of gross generation less the electrical energy consumed at the generating station(s) for station service or auxiliaries. Data can be provided in terms of total, owned, and/or purchased, depending on how the company prefers to disseminate data in this template. Provide owned generation data as reported to EIA on Form 923 Schedule 3 and align purchased power data with the Federal Energy Regulatory Commission (FERC) Form 1 Purchased Power Schedule , Reference Pages numbers 326-327. Note: Electricity required for pumping at pumped-storage plants is regarded as electricity for station service and is deducted from gross generation . | Megawatthour (MWh): One thousand kilowatt-hours or one million watt-hours. | Annual | U.S. Energy Information Administration, <i>Online Glossary</i> , https://www.eia.gov/tools/glossary/ . Form 923 instructions available at: www.eia.gov/survey/form/eia_923/instructions.pdf . |
| 2.1 | Coal | Net electricity generated by the combustion of coal (a readily combustible black or brownish-black rock whose composition, including inherent moisture, consists of more than 50 percent by weight and more than 70 percent by volume of carbonaceous material. It is formed from plant remains that have been compacted, hardened, chemically altered, and metamorphosed by heat and pressure over geologic time). | MWh | Annual | U.S. Energy Information Administration, <i>Online Glossary</i> , https://www.eia.gov/tools/glossary/ . |

Definitions for Entergy's ESG/Sustainability Metrics

| Ref. No. | Metric Name | Definition | Units Reported in | Time Period (if applicable) | Reference to Source (if applicable) |
|--|---|---|--|-----------------------------|---|
| 2.2 | Natural Gas | Net electricity generated by the combustion of natural gas (a gaseous mixture of hydrocarbon compounds, the primary one being methane). | MWh | Annual | U.S. Energy Information Administration, <i>Online Glossary</i> , https://www.eia.gov/tools/glossary/ . |
| 2.3 | Nuclear | Net electricity generated by the use of the thermal energy released from the fission of nuclear fuel in a reactor. | MWh | Annual | U.S. Energy Information Administration, <i>Online Glossary</i> , https://www.eia.gov/tools/glossary/ . |
| 2.4 | Petroleum | Net electricity generated by the combustion of petroleum (a broadly defined class of liquid hydrocarbon mixtures. Included are crude oil, lease condensate, unfinished oils, refined products obtained from the processing of crude oil, and natural gas plant liquids). | MWh | Annual | U.S. Energy Information Administration, <i>Online Glossary</i> , https://www.eia.gov/tools/glossary/ . |
| 2.5 | Total Renewable Energy Resources | Energy resources that are naturally replenishing but flow-limited. They are virtually inexhaustible in duration but limited in the amount of energy that is available per unit of time. Renewable energy resources include biomass, hydro, geothermal, solar, wind, ocean thermal, wave action, and tidal action. | MWh | Annual | U.S. Energy Information Administration, <i>Online Glossary</i> , https://www.eia.gov/tools/glossary/ . |
| 2.5.1 | Biomass/Biogas | Net electricity generated by the combustion of biomass (an organic nonfossil material of biological origin constituting a renewable energy source). | MWh | Annual | U.S. Energy Information Administration, <i>Online Glossary</i> , https://www.eia.gov/tools/glossary/ . |
| 2.5.2 | Geothermal | Net electricity generated by the use of thermal energy released from hot water or steam extracted from geothermal reservoirs in the earth's crust. | MWh | Annual | U.S. Energy Information Administration, <i>Online Glossary</i> , https://www.eia.gov/tools/glossary/ . |
| 2.5.3 | Hydroelectric | Net electricity generated by the use of flowing water. | MWh | Annual | U.S. Energy Information Administration, <i>Online Glossary</i> , https://www.eia.gov/tools/glossary/ . |
| 2.5.4 | Solar | Net electricity generated by the use of the radiant energy of the sun, which can be converted into other forms of energy, such as heat or electricity. | MWh | Annual | U.S. Energy Information Administration, <i>Online Glossary</i> , https://www.eia.gov/tools/glossary/ . |
| 2.5.5 | Wind | Net electricity generated by the use of kinetic energy present in wind motion that can be converted to mechanical energy for driving pumps, mills, and electric power generators. | MWh | Annual | U.S. Energy Information Administration, <i>Online Glossary</i> , https://www.eia.gov/tools/glossary/ . |
| 2.6 | Other | Net electricity generated by other resources that are not defined above. If applicable, this metric should also include market purchases where the generation resource is unknown. | MWh | Annual | |
| 3 Investing in the Future: Capital Expenditures, Energy Efficiency (EE), and Smart Meters | | | | | |
| 3.1 | Total Annual Capital Expenditures | Align annual capital expenditures with data reported in recent investor presentations. A capital expenditure is the use of funds or assumption of a liability in order to obtain physical assets that are to be used for productive purposes for at least one year. This type of expenditure is made in order to expand the productive or competitive posture of a business. | Nominal Dollars | Annual | Accounting Tools, <i>Q&A</i> , http://www.accountingtools.com/questions-and-answers/what-is-a-capital-expenditure.html |
| 3.2 | Incremental Annual Electricity Savings from EE Measures (MWh) | Incremental Annual Electricity Savings for the reporting year as reported to EIA on Form 861 . Incremental Annual Savings for the reporting year are those changes in energy use caused in the current reporting year by: (1) new participants in DSM programs that operated in the previous reporting year, and (2) participants in new DSM programs that operated for the first time in the current reporting year. A "New program" is a program for which the reporting year is the first year the program achieved savings, regardless of when program development | MWh | End of Year | U.S. Energy Information Administration, <i>Form EIA-861 Annual Electric Power Industry Report Instructions</i> . Available at: www.eia.gov/survey/form/eia_861/instructions.pdf . |
| 3.3 | Incremental Annual Investment in Electric EE Programs (nominal dollars) | Total annual investment in electric energy efficiency programs as reported to EIA on Form 861 . | Nominal Dollars | End of Year | U.S. Energy Information Administration, <i>Form EIA-861 Annual Electric Power Industry Report Instructions</i> . Available at: www.eia.gov/survey/form/eia_861/instructions.pdf . |
| 3.4 | Percent of Total Electric Customers with Smart Meters (at end of year) | Number of electric smart meters installed at end-use customer locations, divided by number of total electric meters installed at end-use customer locations. Smart meters are defined as electricity meters that measure and record usage data at a minimum, in hourly intervals, and provide usage data to both consumers and energy companies at least once daily. Align reporting with EIA Form 861 meter data, which lists all types of meter technology used in the system as well as total meters in the system. | Percent | End of Year | U.S. Energy Information Administration, <i>Online Glossary</i> , https://www.eia.gov/tools/glossary/ . |
| 4 Retail Electric Customer Count (at end of year) | | | | | |
| 4 | Retail Electric Customer Count (at end of year) | Electric customer counts should be aligned with the data provided to EIA on Form 861 - Sales to Utility Customers . | | | U.S. Energy Information Administration, <i>Form EIA-861 Annual Electric Power Industry Report Instructions</i> . Available at: www.eia.gov/survey/form/eia_861/instructions.pdf . |
| 4.1 | Commercial | An energy-consuming sector that consists of service-providing facilities and equipment of businesses; Federal, State, and local governments; and other private and public organizations, such as religious, social, or fraternal groups. The commercial sector includes institutional living quarters. It also includes sewage treatment facilities. Common uses of energy associated with this sector include space heating, water heating, air conditioning, lighting, refrigeration, cooking, and running a wide variety of other equipment. Note: This sector includes generators that produce electricity and/or useful thermal output primarily to support the activities of the above-mentioned commercial establishments. | Number of end-use retail customers receiving electricity (individual homes and businesses count as one). | End of Year | U.S. Energy Information Administration, <i>Online Glossary</i> , https://www.eia.gov/tools/glossary/ . |

Definitions for Entergy's ESG/Sustainability Metrics

| Ref. No. | Metric Name | Definition | Units Reported in | Time Period (if applicable) | Reference to Source (if applicable) |
|------------------|---|---|--|-----------------------------|--|
| 4.2 | Industrial | An energy-consuming sector that consists of all facilities and equipment used for producing, processing, or assembling goods. The industrial sector encompasses the following types of activity manufacturing (NAICS codes 31-33); agriculture, forestry, fishing and hunting (NAICS code 11); mining, including oil and gas extraction (NAICS code 21); and construction (NAICS code 23). Overall energy use in this sector is largely for process heat and cooling and powering machinery, with lesser amounts used for facility heating, air conditioning, and lighting. Fossil fuels are also used as raw material inputs to manufactured products. Note: This sector includes generators that produce electricity and/or useful thermal output primarily to support the above-mentioned industrial activities. Various EIA programs differ in sectoral coverage. | Number of end-use retail customers receiving electricity (individual homes and businesses count as one). | End of Year | U.S. Energy Information Administration, <i>Online Glossary</i> , https://www.eia.gov/tools/glossary/ . |
| 4.3 | Residential | An energy-consuming sector that consists of living quarters for private households. Common uses of energy associated with this sector include space heating, water heating, air conditioning, lighting, refrigeration, cooking, and running a variety of other appliances. The residential sector excludes institutional living quarters. Note: Various EIA programs differ in sectoral coverage. | Number of end-use retail customers receiving electricity (individual homes and businesses count as one). | End of Year | U.S. Energy Information Administration, <i>Online Glossary</i> , https://www.eia.gov/tools/glossary/ . |
| 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 | Total direct CO2 emissions from company equity-owned fossil fuel combustion generation in accordance with EPA's GHG Reporting Program (40 CFR, part 98, Subpart C – General Stationary Fuel Combustion and Subpart D – Electricity Production), using a continuous emission monitoring system (CEMS) or other approved methodology. | Metric Tons | Annual | U.S. Environmental Protection Agency, <i>Greenhouse Gas Reporting Program</i> (40 CFR, part 98, Subparts C and D). |
| 5.1.1.2 | Total Owned Generation CO2 Emissions Intensity | Total direct CO2 emissions from 5.1.1.1, divided by total MWh of <u>owned</u> net generation reported in the Utility Portfolio section. | Metric Tons/Net MWh | Annual | |
| 5.1.2 | Carbon Dioxide Equivalent (CO2e) | | | | |
| 5.1.2.1 | Total Owned Generation CO2e Emissions | Total direct CO2e emissions (CO2, CH4, and N2O) from company equity-owned fossil fuel combustion generation in accordance with EPA's GHG Reporting Program (40 CFR, part 98, Subpart C – General Stationary Fuel Combustion and Subpart D – Electricity Production), using a continuous emission monitoring system (CEMS) or other approved methodology. | Metric Tons | Annual | U.S. Environmental Protection Agency, <i>Greenhouse Gas Reporting Program</i> (40 CFR, part 98, Subparts C and D). |
| 5.1.2.2 | Total Owned Generation CO2e Emissions Intensity | Total direct CO2e emissions from 5.1.2.1, divided by total MWh of <u>owned</u> net generation reported in the Utility Portfolio section. | Metric Tons/Net MWh | Annual | |
| 5.2 | Purchased Power | | | | |
| 5.2.1 | Carbon Dioxide (CO2) | | | | |
| 5.2.1.1 | Total Purchased Generation CO2 Emissions | Purchased power CO2 emissions should be calculated using the most relevant and accurate of the following methods: (1) For direct purchases, such as PPAs, use the direct emissions data as reported to EPA. (2) For market purchases where emissions attributes are unknown, use applicable regional or national emissions rate: - ISO/RTO-level emission factors - Climate Registry emission factors - E-Grid emission factors | Metric Tons | Annual | |
| 5.2.1.2 | Total Purchased Generation CO2 Emissions Intensity | Total purchased power CO2 emissions from 5.2.1.1, divided by total MWh of <u>purchased</u> net generation reported in the Utility Portfolio section. | Metric Tons/Net MWh | Annual | |
| 5.2.2 | Carbon Dioxide Equivalent (CO2e) | | | | |

Definitions for Entergy's ESG/Sustainability Metrics

| Ref. No. | Metric Name | Definition | Units Reported in | Time Period (if applicable) | Reference to Source (if applicable) |
|---|---|---|---------------------|-----------------------------|---|
| 5.2.2.1 | Total Purchased Generation CO2e Emissions | Purchased power CO2e emissions should be calculated using the most relevant and accurate of the following methods: (1) For direct purchases, such as PPAs, use the direct emissions data as reported to EPA. (2) For market purchases where emissions attributes are unknown, use applicable regional or national emissions rate: - ISO/RTO-level emission factors - Climate Registry emission factors - E-Grid emission factors | Metric Tons | Annual | |
| 5.2.2.2 | Total Purchased Generation CO2e Emissions Intensity | Total purchased power CO2e emissions from 5.2.2.1, divided by total MWh of purchased net generation reported in the Utility Portfolio section. | Metric Tons/Net MWh | Annual | |
| 5.3 Owned Generation + Purchased Power | | | | | |
| 5.3.1 | Carbon Dioxide (CO2) | | | | |
| 5.3.1.1 | Total Owned + Purchased Generation CO2 Emissions | Sum of total CO2 emissions reported under 5.1.1.1 and 5.2.1.1. | Metric Tons | Annual | |
| 5.3.1.2 | Total Owned + Purchased Generation CO2 Emissions Intensity | Total emissions from 5.3.1.1, divided by total MWh of owned and purchased net generation reported in the Utility Portfolio section. | Metric Tons/Net MWh | Annual | |
| 5.3.2 | Carbon Dioxide Equivalent (CO2e) | | | | |
| 5.3.2.1 | Total Owned + Purchased Generation CO2e Emissions | Sum of total CO2e emissions reported under 5.1.2.1 and 5.2.2.1. | Metric Tons | Annual | |
| 5.3.2.2 | Total Owned + Purchased Generation CO2e Emissions Intensity | Total emissions from 5.3.2.1, divided by total MWh of owned and purchased net generation reported in the Utility Portfolio section. | Metric Tons/Net MWh | Annual | |
| 5.4 Non-Generation CO2e Emissions | | | | | |
| 5.4.1 | Fugitive CO2e emissions of sulfur hexafluoride | Total fugitive CO2e emissions of sulfur hexafluoride in accordance with EPA's GHG Reporting Program (40 CFR Part 98, Subpart DD). | Metric Tons | Annual | U.S. Environmental Protection Agency, <i>Greenhouse Gas Reporting Program</i> (40 CFR, part 98, Subpart DD). |
| 5.4.2 | Fugitive CO2e emissions from natural gas distribution | Total fugitive CO2e emissions from natural gas distribution in accordance with EPA's GHG Reporting Program (40 CFR Part 98, Subpart W). | Metric Tons | Annual | U.S. Environmental Protection Agency, <i>Greenhouse Gas Reporting Program</i> (40 CFR, part 98, Subpart W). |
| 6 Nitrogen Oxide (NOx), Sulfur Dioxide (SO2), Mercury (Hg) | | | | | |
| 6.1 | Generation basis for calculation | Indicate the generation basis for calculating SO2, NOx, and Hg emissions and intensity. Fossil: Fossil Fuel Generation Only Total: Total System Generation Other: Other (please specify in comment section) | | | |
| 6.2 | Nitrogen Oxide (NOx) | | | | |
| 6.2.1 | Total NOx Emissions | Total NOx emissions from company equity-owned fossil fuel combustion generation. In accordance with EPA's Acid Rain Reporting Program (40 CFR, part 75) or regulatory equivalent. | Metric Tons | Annual | U.S. Environmental Protection Agency, <i>Acid Rain Reporting Program</i> (40 CFR, part 75). |
| 6.2.2 | Total NOx Emissions Intensity | Total from above, divided by the MWh of generation basis as indicated in 6.1. | Metric Tons/Net MWh | Annual | |
| 6.3 | Sulfur Dioxide (SO2) | | | | |
| 6.3.1 | Total SO2 Emissions | Total SO2 emissions from company equity-owned fossil fuel combustion generation. In accordance with EPA's Acid Rain Reporting Program (40 CFR, part 75) or regulatory equivalent. | Metric Tons | Annual | U.S. Environmental Protection Agency, <i>Acid Rain Reporting Program</i> (40 CFR, part 75). |
| 6.3.2 | Total SO2 Emissions Intensity | Total from above, divided by the MWh of generation basis as indicated in 6.1. | Metric Tons/Net MWh | Annual | |
| 6.4 | Mercury (Hg) | | | | |
| 6.4.1 | Total Hg Emissions | Total Mercury emissions from company equity-owned fossil fuel combustion generation. Preferred methods of measurement are performance-based, direct measurement as outlined in the EPA Mercury and Air Toxics Standard (MATS). In the absence of performance-based measures, report value aligned with Toxics Release Inventory (TRI) or regulatory equivalent for international operations. | Kilograms | Annual | EPRI, <i>Metrics to Benchmark Sustainability Performance for the Electric Power Industry</i> , 2016 Technical Report. |
| 6.4.2 | Total Hg Emissions Intensity | Total from above, divided by the MWh of generation basis as indicated in 6.1. | Kilograms/Net MWh | Annual | |
| Resources | | | | | |
| 7 | Human Resources | | | | |

Definitions for Entergy's ESG/Sustainability Metrics

| Ref. No. | Metric Name | Definition | Units Reported in | Time Period (if applicable) | Reference to Source (if applicable) |
|----------|---|---|---------------------|-----------------------------|--|
| 7.1 | Total Number of Employees | Average number of employees over the year. To calculate the annual average number of employees: (1) Calculate the total number of employees your establishment paid for all periods. Add the number of employees your establishment paid in every pay period during the data year. Count all employees that you paid at any time during the year and include full-time, part-time, temporary, seasonal, salaried, and hourly workers. Note that pay periods could be monthly, weekly, bi-weekly, and so on. (2) Divide the total number of employees (from step 1) by the number of pay periods your establishment had in during the data year. Be sure to count any pay periods when you had no (zero) employees. (3) Round the answer you computed in step 2 to the next highest whole number. | Number of Employees | Annual | U.S. Department of Labor, Bureau of Labor Statistics, Steps to estimate annual average number of employees, www.bls.gov/respondents/iif/annualavghours.htm . EPRI, <i>Metrics to Benchmark Sustainability Performance for the Electric Power Industry</i> , 2016 Technical Report. |
| 7.2 | Total Number of Board of Directors/Trustees | Average number of employees on the Board of Directors/Trustees over the year. | Number of Employees | Annual | |
| 7.3 | Total Women on Board of Directors/Trustees | Total number of women (defined as employees who identify as female) on Board of Directors/Trustees. | Number of Employees | Annual | U.S. Equal Employment Opportunity Commission, EEO Terminology, www.archives.gov/eoo/terminology.html . EPRI, <i>Metrics to Benchmark Sustainability Performance for the Electric Power Industry</i> , 2016 Technical Report. |
| 7.4 | Total Minorities on Board of Directors/Trustees | Total number of minorities on Board of Directors/Trustees. Minority employees are defined as “the smaller part of a group. A group within a country or state that differs in race, religion or national origin from the dominant group. Minority is used to mean four particular groups who share a race, color or national origin.” These groups are: “(1) American Indian or Alaskan Native. A person having origins in any of the original peoples of North America, and who maintain their culture through a tribe or community; (2) Asian or Pacific Islander. A person having origins in any of the original people of the Far East, Southeast Asia, India, or the Pacific Islands. These areas include, for example, China, India, Korea, the Philippine Islands, and Samoa; (3) Black (except Hispanic). A person having origins in any of the black racial groups of Africa; (4) Hispanic. A person of Mexican, Puerto Rican, Cuban, Central or South American, or other Spanish culture or origin, regardless of race.” | Number of Employees | Annual | U.S. Equal Employment Opportunity Commission, EEO Terminology, www.archives.gov/eoo/terminology.html . EPRI, <i>Metrics to Benchmark Sustainability Performance for the Electric Power Industry</i> , 2016 Technical Report. |
| 7.5 | Employee Safety Metrics | | | | |
| 7.5.1 | Recordable Incident Rate | Number of injuries or illnesses x 200,000 / Number of employee labor hours worked. Injury or illness is recordable if it results in any of the following: death, days away from work, restricted work or transfer to another job, medical treatment beyond first aid, or loss of consciousness. You must also consider a case to meet the general recording criteria if it involves a significant injury or illness diagnosed by a physician or other licensed health care professional, even if it does not result in death, days away from work, restricted work or job transfer, medical treatment beyond first aid, or loss of consciousness. Record the injuries and illnesses of all employees on your payroll, whether they are labor, executive, hourly, salary, part-time, seasonal, or migrant workers. You also must record the recordable injuries and illnesses that occur to employees who are not on your payroll if you supervise these employees on a day-to-day basis. If your business is organized as a sole proprietorship or partnership, the owner or partners are not considered employees for recordkeeping purposes. For temporary employees, you must record these injuries and illnesses if you supervise these employees on a day-to-day basis. If the contractor's employee is under the day-to-day supervision of the contractor, the contractor is responsible for recording the injury or illness. If you supervise the contractor employee's work on a day-to-day basis, you must record the injury or illness. | Percent | Annual | U.S. Department of Labor, Occupational Health and Safety Administration, OSHA Recordable Incidents. EPRI, <i>Metrics to Benchmark Sustainability Performance for the Electric Power Industry</i> , 2016 Technical Report. |
| 7.5.2 | Lost-time Case Rate | Calculated as: Number of lost-time cases x 200,000 / Number of employee labor hours worked. Only report for employees of the company as defined for the “recordable incident rate for employees” metric. A lost-time incident is one that resulted in an employee's inability to work the next full work day. | Percent | Annual | U.S. Department of Labor, Occupational Health and Safety Administration, OSHA Recordable Incidents. EPRI, <i>Metrics to Benchmark Sustainability Performance for the Electric Power Industry</i> , 2016 Technical Report. |
| 7.5.3 | Days Away, Restricted, and Transfer (DART) Rate | Calculated as: Total number of DART incidents x 200,000 / Number of employee labor hours worked. A DART incident is one in which there were one or more lost days or one or more restricted days, or one that resulted in an employee transferring to a different job within the company. | Percent | Annual | U.S. Department of Labor, Occupational Health and Safety Administration, OSHA Recordable Incidents. EPRI, <i>Metrics to Benchmark Sustainability Performance for the Electric Power Industry</i> , 2016 Technical Report. |

Definitions for Entergy's ESG/Sustainability Metrics

| Ref. No. | Metric Name | Definition | Units Reported in | Time Period (if applicable) | Reference to Source (if applicable) |
|--------------------------------|--|--|----------------------------|-----------------------------|---|
| 7.5.4 | Work-related Fatalities | Total employee fatalities. Record for all employees on your payroll, whether they are labor, executive, hourly, salary, part-time, seasonal, or migrant workers. Include fatalities to those that occur to employees who are not on your payroll if you supervise these employees on a day-to-day basis. For temporary employees, report fatalities if you supervise these employees on a day-to-day basis. | Number of Employees | Annual | U.S. Department of Labor, Occupational Health and Safety Administration, OSHA Recordable Incidents. EPRI, <i>Metrics to Benchmark Sustainability Performance for the Electric Power Industry</i> , 2016 Technical Report. |
| 8 Fresh Water Resources | | | | | |
| 8.1 | Water Withdrawals - Consumptive (billions of liters/MWh) | Millions of gallons of fresh water consumed for generation. Include water sourced from fresh surface water, groundwater, and municipal water. Water consumption is defined as water that is not returned to the original water source after being withdrawn, including evaporation to the atmosphere. | Billions of Liters/Net MWh | Annual | Partially sourced from EPRI, <i>Metrics to Benchmark Electric Power Company Sustainability Performance</i> , 2018 Technical Report. |
| 8.2 | Water Withdrawals - Non-consumptive (billions of liters/MWh) | Millions of gallons of fresh water withdrawn, but not consumed, for generation. Include water sourced from fresh surface water, groundwater, and municipal water. Information on organizational water withdrawal may be drawn from water meters, water bills, calculations derived from other available water data or (if neither water meters nor bills or reference data exist) the organization's own estimates. | Billions of Liters/Net MWh | Annual | Partially sourced from EPRI, <i>Metrics to Benchmark Electric Power Company Sustainability Performance</i> , 2018 Technical Report. |
| 9 Waste Products | | | | | |
| 9.1 | Amount of Hazardous Waste Manifested for Disposal | Tons of hazardous waste, as defined by the Resource Conservation and Recovery Act (RCRA), manifested for disposal at a Treatment Storage and Disposal (TSD) facility. Methods of disposal include disposing to landfill, surface impoundment, waste pile, and land treatment units. Hazardous wastes include either listed wastes (F, K, P and U lists) or characteristic wastes (wastes which exhibit at least one of the following characteristics - ignitability, corrosivity, reactivity, toxicity). | Metric Tons | Annual | Partially sourced from EPRI, <i>Metrics to Benchmark Electric Power Company Sustainability Performance</i> , 2018 Technical Report. |
| 9.2 | Percent of Coal Combustion Products Beneficially Used | Percent of coal combustion products (CCPs)—fly ash, bottom ash, boiler slag and flue gas desulfurization materials—diverted from disposal into beneficial uses, including being sold. Only include CCPs generated at company-owned facilities. If no weight data are available, estimate the weight using available information on waste density and volume collected, mass balances, or similar information. | Percent | Annual | Partially sourced from EPRI, <i>Metrics to Benchmark Electric Power Company Sustainability Performance</i> , 2018 Technical Report. |