EEI and AGA

ESG/Sustainability Template





Aug-22



Electric Company ESG/Sustainability Quantitative Information

| Ref. No. | Refer to the 'EEI Definitions' tab for more information on each metric | Baseline 2015 | Last Year 2020 | Current Year 2021 | Next Year 2022 | Future Year | Comments, Links, Additional Information, and Notes |
|------------------|--|-----------------------------------|-------------------------------|----------------------|-------------------|-------------|--|
| | Portfolio | | | | | | |
| | | | | | | | |
| | Owned Nameplate Generation Capacity at end of year (MW) | 6,458 | 8,822 | 9,149 | | | 2021 Iberdrola Sustainability Report, page 18 |
| 1.1 | Coal | 645 | 840 | 840 | | | 2021 Iberdrola Sustainability Report, page 18 (gas combined cycle & cogeneration) |
| 1.2 | Natural Gas | 0.5 | 0.0 | 0.0 | | | 2022 Iberarda Sastanias mey report, page 20 (gas combined cycle at cogeneration) |
| 1.3 | Nuclear | | | | | | |
| 1.4 1.5 | Petroleum Total Renewable Energy Resources | 5,813 | 7,969 | 8,309 | | | 2021 Iberdrola Sustainability Report, page 18 |
| 1.5.1 | Biomass/Biogas | 3,813 | 7,505 | 8,303 | | | 2021 Iberurola Sustamability Neport, page 16 |
| 1.5.2 | Geothermal | | | | | | |
| 1.5.3 | Hydroelectric | 118 | 118 | 118 | | | 2021 Iberdrola Sustainability Report, page 18 |
| 1.5.4 1.5.5 | Solar Wind | 50 5,645 | 130 7,721 | 233 7,945 | | | 2021 Iberdrola Sustainability Report, page 18 2021 Iberdrola Sustainability Report, page 18 |
| 1.6 | Other | 3,013 | 13 | 13 | | | 2021 Iberdrola Sustainability Report, page 18 |
| | | | | | | | |
| | data organizer on the left (i.e., the plus/minus symbol) to open/close the altern Net Generation for the data year (MWh) | ative generation re 17,417,000 | porting options 22,142,000 | 22,591,000 | | | 2021 Iberdrola Sustainability Report, page 18 |
| 2.1 | Net Generation for the data year (wwn) Coal | 17,417,000 | 22,142,000 | 22,591,000 | | | 2021 Iberdroia Sustainability Report, page 18 |
| 2.2 | Natural Gas | 2,790,000 | 2,751,000 | 3,184,000 | | | 2021 Iberdrola Sustainability Report, page 18 |
| 2.3 | Nuclear | | | | | | |
| 2.4 2.5 | Petroleum Total Renewable Energy Resources | 14,627,000 | 19,317,000 | 19,400,000 | | | 2021 Iberdrola Sustainability Report, page 18 |
| 2.5.1 | Biomass/Biogas | 11,027,000 | 13,517,000 | 13,100,000 | | | 2011 IDENTIFICION SUSTAINABILITY NEPONCY PAGE 10 |
| 2.5.2 | Geothermal | | | | | | |
| 2.5.3 2.5.4 | Hydroelectric Solar | 366,000 126,000 | 121,000 248,000 | 132,000 325,000 | | | 2021 Iberdrola Sustainability Report, page 18 2021 Iberdrola Sustainability Report, page 18 (Solar and other combined) |
| 2.5.5 | Wind | 14,135,000 | 18,948,000 | 18,943,000 | | | 2021 Iberdrola Sustainability Report, page 18 |
| 2.6 | Other | | 73,000 | | | | |
| Use the | data organizer on the left (i.e., the plus/minus symbol) to open/close the altern | ative generation re | porting options | | l I | | |
| 3 | Capital Expenditures and Energy Efficiency (EE) | | | | | | |
| 3.1 | Total Annual Capital Expenditures (nominal dollars) | \$ 1,168,000,000 | \$ 2,808,000,000 | \$ 3,294,000.00 | | | 2021 AVANGRID Sustainability Report, page 64 |
| 3.2 | Incremental Annual Electricity Savings from EE Measures (MWh) | 204,254 | 186,911 | 175,842 | | | 2021 AVANGRID Sustainability Report, page 65 |
| 3.3 | Incremental Annual Investment in Electric EE Programs (nominal dollars) | \$ 66,553,179 | \$ 55,000,000 | \$66,050,758 | | | EIA-861 |
| 4 | Retail Electric Customer Count (at end of year) | 2,208,195 | 2,281,348 | 2,283,007 | | | AVANGRID 10-k report, page 8 |
| 4.1 | Commercial | | | | | | |
| 4.2 4.3 | Industrial Residential | | | | | | |
| | | | | | | | |
| | Emissions | | | | | | |
| 5 | GHG Emissions: Carbon Dioxide (CO2) and Carbon Dioxide Equivalent (CO2e) | | | | | | Consider including carbon reduction targets in qualitative discussion |
| | 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) | 1,117,597 | 1,173,419 | 1,306,778 | | | 2021 Iberdrola Sustainability Report, page 257 |
| 5.1.1.2 5.1.2 | Total Owned Generation CO2 Emissions Intensity (MT/Net MWh) Carbon Dioxide Equivalent (CO2e) | 0.064 | 0.053 | 0.058 | | | |
| 5.1.2.1 | Total Owned Generation CO2e Emissions (MT) | 1,118,734 | 1,174,617 | 1,590,305 | | | 2021 Iberdrola Sustainability Report, page 66 |
| 5.1.2.2 | Total Owned Generation CO2e Emissions Intensity (MT/Net MWh) | 0.064 | 0.053 | 0.070 | | | |
| 5.4 | Non-Generation CO2e Emissions of Sulfur Hexafluoride (SF6) (5) | | | | | | |
| 5.4.1 | Total CO2e emissions of SF6 (MT) | n/a | 1,323 | 2,011 | | | |
| 5.4.2 | Leak rate of CO2e emissions of SF6 (MT/Net MWh) | n/a | n/a | n/a | | | |



Electric Company ESG/Sustainability Quantitative Information

| Ref. N | o. Refer to the 'EEI Definitions' tab for more information on each metric | Baseline 2015 | Last Year 2020 | Current Year 2021 | Next Year 2022 | Future Year | Comments, Links, Additional Information, and Notes |
|------------|---|--------------------|-------------------|----------------------|-------------------|-------------|---|
| | Nitrogen Oxide (NOx), Sulfur Dioxide (SO2), Mercury (Hg) | | | | | | |
| 1 | Generation basis for calculation (6) | | 1 | 1 | ı | | |
| .2 | Nitrogen Oxide (NOx) | | | | | | |
| 2.1 | Total NOx Emissions (MT) | 146 | 149 | 134 | | | 2021 Avangrid Sustainability Report, page 64 |
| 2.2 | Total NOx Emissions Intensity (MT/Net MWh) | 0.00001 | 0.00001 | 0.00001 | | | , , , , , |
| .3 | Sulfur Dioxide (SO2) | | | | | | |
| 3.1 | Total SO2 Emissions (MT) | 5 | 6 | 6 | | | 2021 Avangrid Sustainability Report, page 64 |
| 3.2 | Total SO2 Emissions Intensity (MT/Net MWh) | 0.00000 | 0.00000 | 0.00000 | | | |
| .4 | Mercury (Hg) | | | | | | |
| 4.1 | Total Hg Emissions (kg) | 0.0 | 0.0 | 0.0 | | | |
| 4.2 | Total Hg Emissions Intensity (kg/Net MWh) | 0.00000 | 0.00000 | 0.00000 | | | |
| se tl | ne data organizer on the left (i.e., the plus/minus symbol) to open/close the Emiss | ions section notes | | | | | |
| | Resources | | | | | | |
| | Human Resources | | | | | | |
| .1 | Total Number of Employees | 6,809 | 7,031 | 7,348 | | | 2021 Avangrid Sustainability Report, page 66 |
| .2 | Percentage of Women in Total Workforce | n/a | 28% | 27% | | | 2021 Avangrid Sustainability Report, page 66 |
| .3 | Percentage of Minorities in Total Workforce | n/a | 16% | 17% | | | 2021 Avangrid Sustainability Report, page 66 |
| .4 | Total Number on Board of Directors/Trustees | 12 | 14 | 14 | | | 2022 Avangrid Proxy Statement, page 4 |
| .5 | Percentage of Women on Board of Directors/Trustees | 8% | 21% | 21% | | | 2022 Avangrid Proxy Statement, page 4 |
| 6 | Percentage of Minorities on Board of Directors/Trustees | 0% | 7% | 7% | | | |
| 7 | Employee Safety Metrics | | | | | | 2024 |
| 7.1 7.2 | Recordable Incident Rate Lost-time Case Rate | 2.41 0.75 | 2.47 0.60 | 2.35 0.49 | | | 2021 Avangrid Sustainability Report, page 66 2021 Avangrid Sustainability Report, page 66 |
| 7.3 | Days Away, Restricted, and Transfer (DART) Rate | 0.75 n/a | 1.71 | 1.85 | | | 2021 Avangrid Sustainability Report, page 66 2021 Avangrid Sustainability Report, page 66 |
| 7.4 | Work-related Fatalities | 0.00 | 0.00 | 0.00 | | | 2021 Avangrid Sustainability Report, page 66 |
| | Fresh Water Resources used in Thermal Power Generation Activities | | | | | | |
| 1 | Water Withdrawals - Consumptive (Millions of Gallons) | 9 | 10 | 12 | | | |
| 2 | Water Withdrawals - Non-Consumptive (Millions of Gallons) | 8 | 8 | 9 | | | |
| 3 | Water Withdrawals - Consumptive Rate (Millions of Gallons/Net MWh) | 0.000 | 0.000 | 0.000 | | | |
| 4 | Water Withdrawals - Non-Consumptive Rate (Millions of Gallons/Net MWh) | 0.000 | | 0.00 | | | |
| | Waste Products | | | | | | |
| 1 | Amount of Hazardous Waste Manifested for Disposal | 141 | 606 | 602 | | | 2021 Avangrid Sustainability Report, page 65 |
| .2 | Percent of Coal Combustion Products Beneficially Used | 0% | 0% | 0% | | | |
| | Additional Metrics (Optional) | · | · | | | | |
| | · · · · | | | | | | |
| | tanant additional according to the anatom and according | 1 | 1 | 1 | | ı | 1 |
| | Insert additional rows in this section as necessary. | | | | | | |

| Ref. No. | Metric Name | Definition | Units Reported in | Time Period (if applicable) | Reference to Source (if applicable) |
|----------|---|--|--|--------------------------------|---|
| | Portfolio | | | | |
| | | | | | |
| 1 | Owned Nameplate Generation Capacity at end of year (MW) | Provide generation capacity data that is consistent with other external reporting by your company. The alternative default is to use the 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, Online Glossary, 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, Online Glossary, 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, Online Glossary, 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, Online Glossary, 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, Online Glossary, 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, Online Glossary, 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, Online Glossary, 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) | Net generation is defined as the 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 net generation data that is consistent with other external reporting by your company . The alternative default is to 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/. |
| 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, Online Glossary, 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, Online Glossary, 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, Online Glossary, 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, Online Glossary, https://www.eia.gov/tools/glossary/. |

| Ref. No. Metric Name | Definition | Units Reported in | Time Period (if applicable) | Reference to Source (if applicable) |
|---|---|--|--------------------------------|---|
| 2.5.3 Hydroelectric | Net electricity generated by the use of flowing water. | MWh | Annual | U.S. Energy Information Administration, Online Glossary, 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, Online Glossary, 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, Online Glossary, 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 Capital Expenditures and Energy Efficiency (EE) | | | | |
| 3.1 Total Annual Capital Expenditures | Align annual capital expenditures with data reported in recent investor presentations or financial filings. Total capital expenditures should reflect all investments made at the company level (i.e., parent level or operating company) for which other data (e.g., number of customers, emissions, etc.) is reported. 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, Q&A, http://www.accountingtools.com/questions-and-answers/what-ia-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 and expenditures began. | MWh | End of Year | U.S. Energy Information Administration, Form EIA-861 Annual Electric Power Industry Report Instructions. 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, Form EIA-861 Annual Electric Power Industry Report Instructions. Available at: |
| 5.5 Incremental Annual Investment in Electric EE (10g) unis (nonlinal donars) | Total annual investment in electric energy enricency programs as reported to EIA on Form 801. | Norminal Bollars | Ella ol Teal | www.eia.gov/survey/form/eia_861/instructions.pdf. |
| 5.5 Incremental Annual Investment in Electric 22 Frograms (nonlinar donars) | Total annual investment in electric energy entitlency programs as reported to EIA on Form 801. | NOTHINA BOILARS | 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. | NOTHINA BOILARS | Eliu di Teal | |
| 4 Retail Electric Customer Count (at end of year) | | Number of end-use retail customers receiving electricity (individual homes and businesses count as one). | End of Year | www.eia.gov/survey/form/eia_861/instructions.pdf. U.S. Energy Information Administration, Form EIA-861 Annual Electric Power Industry Report Instructions. Available at: |
| 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. 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 | Number of end-use retail customers receiving electricity (individual homes and businesses | | www.eia.gov/survey/form/eia_861/instructions.pdf. U.S. Energy Information Administration, Form EIA-861 Annual Electric Power Industry Report Instructions. Available at: www.eia.gov/survey/form/eia_861/instructions.pdf. U.S. Energy Information Administration, Online 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 based on 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 relevant protocols. | Metric Tons | Annual | U.S. Environmental Protection Agency, <i>Greenhouse Gas</i> **Reporting Program** (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) | | | | |

| Ref. No. | Metric Name | Definition | Units Reported in | Time Period (if applicable) | Reference to Source (if applicable) |
|----------|---|--|-----------------------------|--------------------------------|--|
| 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). |
| .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 | Metric Tons/Net MWh | Annual | |
| 2 | Purchased Power | section. | | | |
| 2.1 | Carbon Dioxide (CO2) | | | | |
| 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 | |
| 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 | |
| .2 | Carbon Dioxide Equivalent (CO2e) | | | | |
| .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 | |
| .2.2 | Total Purchased Generation CO2e Emissions Intensity | Total purchased power CO2e emissions from 5.2.2.1, divided by total MWh of <u>purchased</u> net generation reported in the Utility Portfolio section. | Metric Tons/Net MWh | Annual | |
| } | Owned Generation + Purchased Power | | | | |
| .1 | Carbon Dioxide (CO2) | C (1) 11 CO2 (1) 1 | MaldaTana | A 1 | |
| .1.1 | Total Owned + Purchased Generation CO2 Emissions | Sum of total CO2 emissions reported under 5.1.1.1 and 5.2.1.1. Total emissions from 5.3.1.1, divided by total MWh of <u>owned and purchased</u> net generation reported in the Utility Portfolio | Metric Tons | Annual | |
| .1.2 | Total Owned + Purchased Generation CO2 Emissions Intensity | section. | Metric Tons/Net MWh | Annual | |
| .2 | Carbon Dioxide Equivalent (CO2e) | | = | | |
| .2.1 | Total Owned + Purchased Generation CO2e Emissions | Sum of total CO2e emissions reported under 5.1.2.1 and 5.2.2.1. Total emissions from 5.3.2.1, divided by total MWh of <u>owned and purchased</u> net generation reported in the Utility Portfolio | Metric Tons | Annual | |
| 2.2 | Total Owned + Purchased Generation CO2e Emissions Intensity | section. | Metric Tons/Net MWh | Annual | |
| | Non-Generation CO2e Emissions of Sulfur Hexafluoride (SF6) | | | | |
| 1 | Total CO2e emissions of SF6 | Total CO2e emissions of SF6 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). |
| .2 | Leak rate of CO2e emissions of SF6 | Leak rate of CO2e emissions of SF6 in accordance with EPA's GHG Reporting Program (40 CFR Part 98, Subpart DD) | Metric Tons/Net MWh | Annual | U.S. Environmental Protection Agency, <i>Greenhouse Gas Reporting Program</i> (40 CFR, part 98, Subpart DD). |
| | | | | | |
| | Nitrogen Oxide (NOx), Sulfur Dioxide (SO2), Mercury (Hg) | Laffert the construction for the lafter CO2 NO and Hearth Co2 NO | | | |
| | 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) | | | |
| | Nitrogen Oxide (NOx) | other other (predoct speedly in comment section) | | | |
| .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, Acid Rain Reportin Program (40 CFR, part 75). |
| .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 | |
| .1 | Sulfur Dioxide (SO2) Total SO2 Emissions | Total SO2 emissions from company equity-owned fossil fuel combustion generation. In accordance with EPA's Acid Rain | Metric Tons | Annual | U.S. Environmental Protection Agency, Acid Rain Reportin |
| .2 | Total SO2 Emissions Intensity | Reporting Program (40 CFR, part 75) or regulatory equivalent. Total from above, divided by the MWh of generation basis as indicated in 6.1. | Metric Tons/Net MWh | Annual | Program (40 CFR, part 75). |
| | Mercury (Hg) | Total Hom above, divided by the intern of generation basis as illulcated ill 0.1. | THICKING TOTIS/THECTIVITYII | Amidal | |
| ļ.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 | Kilograms | Annual | EPRI, Metrics to Benchmark Electric Power Company Sustainability Performance, 2018 Technical Report. |
| | | equivalent for international operations. | | | |
| .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

| Processing of Manuface of Basic Scale Sc | Ref. No. Metric Name | Definition | Units Reported in | Time Period (if applicable) | Reference to Source (if applicable) |
|--|---|---|----------------------|--------------------------------|--|
| service of another part part and present a | 7 Human Resources | | | | |
| Peccetagy of women in road boardinary. Peccetagy of women in road women in road of the road boardinary. Peccetagy of women in road of the road boardinary. Peccetagy of women in road of the road boardinary. Peccetagy of women in road of the road boardinary. Peccetagy of women in road of the road boardinary. Peccetagy of women in road of the road boardinary. Peccetagy of women in road of the road boardinary. Peccetagy of women in road of the road boardinary. Peccetagy of women in road of the road boardinary. Peccetagy of women in road of the road boardinary. Peccetagy of women in road of the road boardinary. Peccetagy of women in road of the road boardinary. Peccetagy of women in road of the road boardinary. Peccetagy of women in road of the road boardinary. Peccetagy of women in road of the road boardinary. Peccetagy of women in road of the road boardinary. Peccetagy of women in road of the road boardinary. Peccetagy of women in road o | 7.1 Total Number of Employees | 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 | Number of Employees | Annual | www.bls.gov/respondents/iif/annualavghours.htm. EPRI, Metri- to Benchmark Electric Power Company Sustainability |
| Ferromage of Minorates in Total Wedgeter From Total Designation of Control o | 7.2 Percentage of Women in Total Workforce | Percentage of women (defined as employees who identify as female) in workforce. | Percent of Employees | Annual | U.S. Equal Employment Opportunity Commission, EEO Terminology, www.archives.gov/eeo/terminology.html. EPRI, Metrics to Benchmark Electric Power Company Sustainability Performance, 2018 Technical Report. |
| Percentage of Women on Board of Directors/Trustees Percentage of Women on Board of Directors/Trustees Percentage of Moments on Board of Directors/Trustees Percent and Circulty Seed on Percentage of Directors/Trustees Percent | 7.3 Percentage of Minorities in Total Workforce | 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, | Percent of Employees | Annual | U.S. Equal Employment Opportunity Commission, EEO Terminology, www.archives.gov/eeo/terminology.html. EPRI, Metrics to Benchmark Electric Power Company Sustainability Performance, 2018 Technical Report. |
| Percentage of twomen on Asarra of Euroctory's musters Percentage of Involved as employees who identify as female on Board of Directory/Trusters. Minority employees and defined as "the annalist past of a group. A group within a country or state that officin in incert fallipsis or a national origin from the destinants group. Minority is used to make a practicular group or an employee in the defined as "the annalist past of a group. A group within a country or state that difficin in incert fallipsis or a national origin from the destinants group. Minority is used to make a many country or state that difficing in incert falling in the original procedure of fourth America, and who maketas in the cutting through a state of supplying the state of the original procedure of fourth America, and who maketas in the cutting through a state of supplying the state of the original procedure of fourth America, and who maketas in the cutting through a state of the original procedure of fourth America, and who maketas in the cutting through a state of supplying the state of the original procedure of fourth America, and who maketas in the cutting through a state of supplying the state of supplying the state of supplying through a sta | 7.4 Total Number of Board of Directors/Trustees | Average number of employees on the Board of Directors/Trustees over the year. | Number of Employees | Annual | |
| Percentage of Misorities on Board of Directors/Trusteres Recordable incident Rate Recordable i | 7.5 Percentage of Women on Board of Directors/Trustees | Percentage of women (defined as employees who identify as female) on Board of Directors/Trustees. | Percent of Employees | Annual | U.S. Equal Employment Opportunity Commission, EEO Terminology, www.archives.gov/eeo/terminology.html. EPRI, Metrics to Benchmark Electric Power Company Sustainability Performance, 2018 Technical Report. |
| 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 You must also consider a case to meet the general recording criteria if it in whose 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 looks of consciousness. Record the injuries and illnesses for law for except the power of the death, days away from work, restricted work or job transfer; medical treatment beyond first aid, or looks of consciousness. Record the injuries and illnesses if you supervise these employees who are not on your payroll, whether they are labor, executive, hourly, salary, partine, seasonal, or migrant workers. Viou also must record the recordable injuries and illnesses if you supervise these employees on a day-to-day basis. If your business is organized as a sole proprietorship or partners are not considered employees for recordseing purposes. For temporary employees, you must record the employees for recordseing purposes. For etemporary employees, so understing the injury or illness. If you supervise these employees on a day-to-day basis, you must record the injury or illness. 7.7.2 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 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. Calculated as: Total number of DART incidents x 200,000 / Number of employee ibnor hours worked. A DART incident is one in which there were one or more lost days or | 7.6 Percentage of Minorities on Board of Directors/Trustees | 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 | Percent of Employees | Annual | U.S. Equal Employment Opportunity Commission, EEO Terminology, www.archives.gov/eeo/terminology.html. EPRI, Metrics to Benchmark Electric Power Company Sustainability Performance, 2018 Technical Report. |
| results in any off he 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 criterial 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 to 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, shale, partiment, shall be injuried and illnesses of all employees on a day-to-day basis. If you business is organized as a sole propriets where employees on a day-to-day basis. If you business is organized as a sole propriets where employees, you must record the recordable injuries and illnesses if you supervise these employees on a day-to-day basis. If you business is organized as a sole propriets where they are labor, executive, bourly, salary, partiments of labor, Occupational Health and Administration, OSHA Recordable Incidents. EPRI, Benchmark Electric Power Company Sustainability of temporary employees, you must record these injuries and illnesses if you supervise the employees of the contractor, the contractor is responsible for recording the injury or illness. If you supervise the contractor employees of the contractor of the 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 is abolity to work the next full work day. Lost-time Case Rate Calculated as: Total number of DART incidents x 200,000 / Number of employees labor hours worked. A DART incident is one in the metric of the company sustained in a employee in the company and the propriets of the feet of | 7.7 Employee Safety Metrics | | | | |
| 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 memployee's inability to work the next full work day. Percent Annual Administration, OSHA Recordable Incidents. EPRI, Benchmark Electric Power Company Sustainability Performance, 2018 Technical Report. 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 that resulted in an employee transferring to a different job within the company. Days Away, Restricted, and Transfer (DART) Rate 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 that resulted in an employee transferring to a different job within the company. Percent Annual Administration, OSHA Recordable Incidents. EPRI, Benchmark Function of Labor, Occupational Health and Administration, OSHA Recordable Incidents. EPRI, Benchmark Sustainability Performance for the Electric Power Company Sustainability Performance for the Electr | 7.7.1 Recordable Incident Rate | 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 | Percent | Annual | |
| Calculated as: Total number of DART incidents x 200,000 / Number of employee labor hours worked. A DART incident is one 1.7.3 Days Away, Restricted, and Transfer (DART) Rate 2.7.3 Days Away, Restricted, and Transfer (DART) Rate 3.7.3 Days Away, Restricted, and Transfer (DART) Rate 4.7.3 Days Away, Restricted, and Transfer (DART) Rate 5.7.3 Days Away, Restricted, and Transfer (DART) Rate 6.7.3 Days Away, Restricted, and Transfer (DART) Rate 7.7.3 Days Away, Restricted, and Transfer (DART) Rate 7.7.3 Days Away, Restricted, and Transfer (DART) Rate 8.7.3 Days Away, Restricted, and Transfer (DART) Rate 9. Percent 9. Percent 9. Benchmark Sustainability Performance for the Elect 1.0 Industry, 2018 Technical Report. 9. U.S. Department of Labor, Occupational Health and | 7.7.2 Lost-time Case Rate | the company as defined for the "recordable incident rate for employees" metric. A lost-time incident is one that resulted in | Percent | Annual | Performance, 2018 Technical Report. |
| | 7.7.3 Days Away, Restricted, and Transfer (DART) Rate | in which there were one or more lost days or one or more restricted days, or one that resulted in an employee transferring | Percent | Annual | U.S. Department of Labor, Occupational Health and Safety Administration, OSHA Recordable Incidents. EPRI, Metrics to Benchmark Sustainability Performance for the Electric Power Industry, 2018 Technical Report. |
| /./.4 Work-related Fatalities I Number of Employees I Annual I | 7.7.4 Work-related Fatalities | 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 | Number of Employees | Annual | U.S. Department of Labor, Occupational Health and Safety Administration, OSHA Recordable Incidents. EPRI, Metrics to Benchmark Electric Power Company Sustainability Performance, 2018 Technical Report. |

| Ref. No. | Metric Name | Definition | Units Reported in | Time Period (if applicable) | Reference to Source (if applicable) |
|----------|--|--|-----------------------------|--------------------------------|--|
| 8.1 | Water Withdrawals - Consumptive (Millions of Gallons) | consumption is defined as water that is not returned to the original water source after being withdrawn, including evaporation to the atmosphere. | | Annual | Partially sourced from EPRI, Metrics to Benchmark Electric Power Company Sustainability Performance, 2018 Technical Report. |
| 8.2 | Water Withdrawals - Non-Consumptive (Millions of Gallons) | Amount of fresh water withdrawn, but not consumed, for use in thermal generation. "Freshwater" includes water sourced from fresh surface water, groundwater, rain water, and fresh municipal water. Do NOT include recycled, reclaimed, or gray 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. | Millions of Gallons | Annual | Partially sourced from EPRI, Metrics to Benchmark Electric Power Company Sustainability Performance, 2018 Technical Report. |
| 8.3 | Water Withdrawals - Consumptive Rate (Millions of Gallons/Net MWh) | Rate of freshwater consumed for use in thermal generation. "Freshwater" includes water sourced from fresh surface water, groundwater, rain water, and fresh municipal water. Do NOT include recycled, reclaimed, or gray water. Water consumption is defined as water that is not returned to the original water source after being withdrawn, including evaporation to the atmosphere. Divide millions of gallons by equity-owned total net generation from all equity-owned net electric generation as reported under Metric 2, Net Generation for the data year (MWh). | Millions of Gallons/Net MWh | Annual | Partially sourced from EPRI, Metrics to Benchmark Electric Power Company Sustainability Performance, 2018 Technical Report. |
| 8.4 | Water Withdrawals - Non-Consumptive Rate (Millions of Gallons/Net MWh) | Rate of fresh water withdrawn, but not consumed, for use in thermal generation. "Freshwater" includes water sourced from fresh surface water, groundwater, rain water, and fresh municipal water. Do NOT include recycled, reclaimed, or gray 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. Divide millions of gallons by equity-owned total net generation from all equity-owned net electric generation as reported under Metric 2, Net Generation for the data year (MWh). | Millions of Gallons/Net MWh | Annual | Partially sourced from EPRI, Metrics to Benchmark Electric Power Company Sustainability Performance, 2018 Technical Report. |
| | | | | | |
| 9 | Waste Products | Metric tons of hazardous waste, as defined by the Resource Conservation and Recovery Act (RCRA), manifested for disposal | | | |
| 9.1 | Amount of Hazardous Waste 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). Include hazardous waste from all company operations including generation, transmissions, distribution, and other operations. | Metric Tons | Annual | Partially sourced from EPRI, Metrics to Benchmark Electric Power Company Sustainability Performance, 2018 Technical Report. |
| 9.2 | Percent of Coal Combustion Products Beneficially Used | Percent of coal combustion products (CCPs) - fly ash, bottom ash, boiler slag, flue gas desulfurization materials, scrubber bi- product - diverted from disposal into beneficial uses, including being sold. Include any CCP that is generated during the data year and stored for beneficial use in a future year. Only include CCP generated at company equity-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, Metrics to Benchmark Electric Power Company Sustainability Performance, 2018 Technical Report. |

| Goal Applicability | Baseline | Target | Reduction Goal Description (Short) | Source (URL) |
|--------------------|----------|--------|---|---------------------------------------|
| 111 11 17 | Year | Year | j (| · · · · · · · · · · · · · · · · · · · |
| | | | 35% decrease in Scope 1 greenhouse emissions intensity (measured in | |
| | | | grams of CO2 per kilowatt-hour of energy produced) by 2025 compared | |
| AVANGRID | 2015 | 2025 | with 2015 | Avangrid 2021 Sustainability Report |
| AVANGRID | 2015 | 2035 | Scope 1 carbon neutral by 2035 | Avangrid 2021 Sustainability Report |
| AVANGRID | 2017 | 2032 | Scope 1 and 2 50% reduction by 2032 | DOE Climate Change |
| | | | | |

Notes

- 1. Additional information on the emissions goals listed above, including how they will be achieved, can be found in the Qualitative section.
- 2. Information on the type of emissions (e.g., carbon, methane, CO2e, etc.) and which scope(s) of emissions apply based on the WRI GHG Reporting Protocol, TCR Reporting Protocol(s), or other acceptable reporting procedures should be included in the goal description. Emissions reported in the Quantitative section are not based on a Scope 1, 2 or 3 methodology.
- 3. Goal Applicability refers to the entity to which the goal applies (e.g., parent company, operating company, electic or gas utility, etc.).



Gas Company ESG/Sustainability Quantitative Information

Parent Company:
Operating Company(s):
Business Type(s):
State(s) of Operation:
Regulatory Environment:

Report Date:

AVANGRID, INC

CONNECTICUT NATURAL GAS, SOUTHERN CONNECTICUT GAS, NEW YORK STATE ELECTRIC & GAS, ROCHESTER GAS & ELECTRIC, MAINE NATURAL GAS

(e.g., vertically integrated, T&D only, competitive integrated)

(e.g., deregulated, regulated, both)

Aug-22

| Ref. No. | Refer to the "Definitions" column for more information on each metric. | Baseline 2015 | Last Year 2020 | Current Year 2021 | Next Year 2022 | Future Year | Comments, Links, Additional Information, and Notes |
|----------|--|------------------|-----------------------------|-----------------------------|-------------------|-------------|--|
| | Natural Gas Distribution | | | | | | |
| 1 | METHANE EMISSIONS AND MITIGATION FROM DISTRIBUTION MAINS | | | | | | |
| 1.1 | Number of Gas Distribution Customers | 984167 | 1025321 | 1,029,202 | 0 | 0 | 2021 Avangrid 10K report, page 8 |
| 1.2 | Distribution Mains in Service | | 822,943 | 830,516 | | | 2021 Distribution DOT report |
| 1.2.1 | Plastic (miles) | 6293.776 | 7061 | 7205 | 0 | 0 | 2021 Distribution DOT report |
| .2.2 | Cathodically Protected Steel - Bare & Coated (miles) | 6267.791 | 6245 | 6196 | 0 | 0 | 2021 Distribution DOT report |
| .2.3 | Unprotected Steel - Bare & Coated (miles) | 572.607 | 264 | 241 | 0 | 0 | 2021 Distribution DOT report |
| 1.2.4 | Cast Iron / Wrought Iron - without upgrades (miles) | 1068.777 | 875 | 864 | 0 | 0 | 2021 Distribution DOT report |
| 1.3 | Plan/Commitment to Replace / Upgrade Remaining Miles of Distribution Mains (# years to complete) | | CT ~17 years NY ~3 years | CT ~16 years NY ~2 years | | | |
| 3.1 | Unprotected Steel (Bare & Coated) (# years to complete) | 0 | 0 | 0 | 0 | 0 | |
| .3.2 | Cast Iron / Wrought Iron (# years to complete) | 0 | 0 | 0 | 0 | 0 | |
| 2 | Distribution CO2e Fugitive Emissions | | 151,330 | 248,995 | | | 2021 Iberdrola Greenhouse Gas Report, page 15 |
| 2.1 | CO2e Fugitive Methane Emissions from Gas Distribution Operations (metric tons) | 256350 | 213,950 | 222,289 | 0 | 0 | |
| 2.2 | CH4 Fugitive Methane Emissions from Gas Distribution Operations (metric tons) | 10254 | 8558 | 8751 | 0 | 0 | 2021 Avangrid Sustainability Report, page 64 |
| 2.2.1 | CH4 Fugitive Methane Emissions from Gas Distribution Operations (MMSCF/year) | 534.0625 | 445.7291667 | 455.78 | 0 | 0 | Formula: (L31*1000)/0.0192)/1000000 |
| 2.3 | Annual Natural Gas Throughput from Gas Distribution Operations in thousands of standard cubic feet (Mscf/year) | 227809818 | 239587046 | 180319309 | 0 | 0 | |
| 2.3.1 | Annual Methane Gas Throughput from Gas Distribution Operations in millions of standard cubic feet (MMscf/year) | 216419.327 | 227607.6937 | 171303.34 | 0 | 0 | Formula: (L33/1000)*0.95 |
| 2.4 | Fugitive Methane Emissions Rate (Percent <i>MMscf of Methane Emissions per MMscf of Methane Throughput</i>) | 0% | 0% | | | | |
| | Natural Gas Transmission and Storage | | | | | | |
| | | | | | | | |
| 1 | Onshore Natural Gas Transmission Compression Methane Emissions | | | | | | |
| 1.1.1 | Pneumatic Device Venting (metric tons/year) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| .1.2 | Blowdown Vent Stacks (metric tons/year) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| .1.3 | Transmission Storage Tanks (metric tons/year) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| .1.4 | Flare Stack Emissions (metric tons/year) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| .1.5 | Centrifugal Compressor Venting (metric tons/year) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| .1.6 | Reciprocating Compressor Venting (metric tons/year) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| .1.7 | Equipment leaks from valves, connectors, open ended lines, pressure relief valves, and meters (metric tons/year) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| | Other Leaks (metric tons/year) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| .1.8 | other Leans (metric tons) year | | | | | | |

| 1.3 1.4 | Total Transmission Compression Methane Emissions (CO2e/year) Total Transmission Compression Methane Emissions (MSCF/year) | 0.0 0.0 | 0.0 0.0 | 0.0 0.0 | 0.0 0.0 | 0.0 0.0 | |
|--|---|--------------|--------------|---|--------------|--------------|---|
| 2 | Underground Natural Gas Storage Methane Emissions | | | | | | |
| 2.1.1 | Pneumatic Device Venting (metric tons/year) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 2.1.2 2.1.3 | Flare Stack Emissions (metric tons/year) Centrifugal Compressor Venting (metric tons/year) | 0.0 0.0 | 0.0 0.0 | 0.0 0.0 | 0.0 | 0.0 | |
| 2.1.3 | Reciprocating Compressor Venting (metric tons/year) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 2.1.5 | Equipment leaks from valves, connectors, open ended lines, pressure relief valves, and meters (metric tons/year) | | | | | | |
| | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 2.1.6 | Other Equipment Leaks (metric tons/year) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 2.1.7 | Equipment leaks from valves, connectors, open-ended lines, and pressure relief valves associated with storage wellheads (metric tons/year) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 2.1.8 | Other equipment leaks from components associated with storage wellheads (metric tons/year) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 2.2 | Total Storage Compression Methane Emissions (metric tons/year) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 2.3 | Total Storage Compression Methane Emissions (CO2e/year) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 2.4 | Total Storage Compression Methane Emissions (MSCF/year) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3 | Onshore Natural Gas Transmission Pipeline Blowdowns | | | | | | |
| 3.1 | Transmission Pipeline Blowdown Vent Stacks (metric tons/year) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3.2 | Transmission Pipeline Blowdown Vent Stacks (CO2e/year) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3.3 | Transmission Pipeline Blowdown Vent Stacks (MSCF/year) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 4 | Other Non-Sub W Emissions Data (OPTIONAL) | | | | | | |
| 4.1 | Total Methane Emissions from additional sources not recognized by 40 CFR 98 Subpart W (metric tons/year) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 4.2 | Total Methane Emissions from additional sources not recognized by 40 CFR 98 Subpart W (CO2e/year) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 4.3 | Total Methane Emissions from additional sources not recognized by 40 CFR 98 Subpart W (MSCF/year) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 5 | Summary and Metrics | | | | | | |
| 5.1 | Total Transmission and Storage Methane Emissions (MMSCF/year) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 5.2 | Annual Natural Gas Throughput from Gas Transmission and Storage Operations (MSCF/year) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 5.2.1 | Annual Methane Gas Throughput from Gas Transmission and Storage Operations (MMSCF/year) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 5.3 | Methane Emissions Intensity Metric (Percent MMscf of Methane Emissions per MMscf of Methane Throughput) | Missing Data | Missing Data | Missing Data | Missing Data | Missing Data | |
| | | | | | | | |
| | | | | | | | |
| | Natural Gas Gathering and Boosting | | | | | l | |
| 1 | Natural Gas Gathering and Boosting METHANE EMISSIONS | | | | | | |
| 1.1 | METHANE EMISSIONS Gathering and Boosting Pipelines, Blow Down Volumes, and Emissions | | | | | | |
| 1.1 1.1.1 | METHANE EMISSIONS Gathering and Boosting Pipelines, Blow Down Volumes, and Emissions Total Miles of Gathering Pipeline Operated by gas utility (miles) | | | | | | |
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