

# EEI and AGA

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# ESG/Sustainability Template

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**Jun-23**



# Electric Company ESG/Sustainability Quantitative Information

**Parent Company:** AVANGRID, INC.  
**Operating Company(s):** AVANGRID RENEWABLES, CENTRAL MAINE POWER, NEW YORK STATE ELECTRIC & GAS, ROCHESTER GAS & ELECTRIC, UNITED ILLUMINATING  
**Business Type(s):** (e.g., vertically integrated, T&D only, competitive integrated)  
**State(s) of Operation:**  
**State(s) with RPS Programs:**  
**Regulatory Environment:** (e.g., deregulated, regulated, both)  
**Report Date:** Aug-22

Ref. No.	Refer to the 'EEI Definitions' tab for more information on each metric	Baseline 2015	Current Year 2021	Current Year 2022	Next Year 2023	Comments, Links, Additional Information, and Notes
<b>Portfolio</b>						
1	<b>Owned Nameplate Generation Capacity at end of year (MW)</b>	6,458	9,149	9,541		2022 Avangrid Sustainability Report, page 79
1.1	Coal					
1.2	Natural Gas	645	840	840		2022 Iberdrola Sustainability Report, page 19
1.3	Nuclear					
1.4	Petroleum					
1.5	<b>Total Renewable Energy Resources</b>	5,813	8,309	8,702		2022 Avangrid Sustainability Report, page 79
1.5.1	Biomass/Biogas					
1.5.2	Geothermal					
1.5.3	Hydroelectric	118	118	118		2022 Iberdrola Sustainability Report, page 19
1.5.4	Solar	50	233	509		2022 Iberdrola Sustainability Report, page 19
1.5.5	Wind	5,645	7,945	8,061		2022 Iberdrola Sustainability Report, page 19
1.6	Other		13	13		2022 Iberdrola Sustainability Report, page 19
<b>Use the data organizer on the left (i.e., the plus/minus symbol) to open/close the alternative generation reporting options</b>						
2	<b>Net Generation for the data year (MWh)</b>	17,417,000	22,591,000	22,807,000		2022 Avangrid Sustainability Report, page 79
2.1	Coal					
2.2	Natural Gas	2,790,000	3,184,000	2,516,000		2022 Iberdrola Sustainability Report, page 19
2.3	Nuclear					
2.4	Petroleum					
2.5	<b>Total Renewable Energy Resources</b>	14,627,000	19,400,000	20,283,000		2022 Avangrid Sustainability Report, page 79
2.5.1	Biomass/Biogas					
2.5.2	Geothermal					
2.5.3	Hydroelectric	366,000	132,000	188,000		2022 Iberdrola Sustainability Report, page 19
2.5.4	Solar	126,000	325,000	314,000		2022 Iberdrola Sustainability Report, page 19
2.5.5	Wind	14,135,000	18,943,000	19,612,000		2022 Iberdrola Sustainability Report, page 19
2.6	Other			74,000		2022 Iberdrola Sustainability Report, page 19
<b>Use the data organizer on the left (i.e., the plus/minus symbol) to open/close the alternative generation reporting options</b>						
3	<b>Capital Expenditures and Energy Efficiency (EE)</b>					
3.1	Total Annual Capital Expenditures (nominal dollars)	\$ 1,168,000,000	\$ 3,294,000.00	\$ 2,698,000.00		2022 Avangrid Sustainability Report, page 79
3.2	Incremental Annual Electricity Savings from EE Measures (MWh)	204,254	175,842	251,849		2022 Avangrid Sustainability Report, page 79
3.3	Incremental Annual Investment in Electric EE Programs (nominal dollars)	\$ 66,553,179	\$66,050,758	\$50,145,413		
4	<b>Retail Electric Customer Count (at end of year)</b>	2,208,195	2,283,007	2,308,908		2022 Avangrid Sustainability Report, page 80
4.1	Commercial			269,353		
4.2	Industrial			5,001		
4.3	Residential			2,031,260		
4.4	Other			3,294		
<b>Emissions</b>						
5	<b>GHG Emissions: Carbon Dioxide (CO2) and Carbon Dioxide Equivalent (CO2e)</b>					
	<b>Note:</b> The alternatives available below are intended to provide flexibility in reporting GHG emissions, and should be used to the extent appropriate for each company.					



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**Business Type(s):** (e.g., vertically integrated, T&D only, competitive integrated)  
**State(s) of Operation:**  
**State(s) with RPS Programs:**  
**Regulatory Environment:** (e.g., deregulated, regulated, both)  
**Report Date:** Aug-22

Ref. No.	Refer to the 'EEI Definitions' tab for more information on each metric	Baseline	Current Year	Current Year	Next Year	Comments, Links, Additional Information, and Notes
		2015	2021	2022	2023	
<b>5.1</b>	<b>Owned Generation (1) (2) (3)</b>					
5.1.1	Carbon Dioxide (CO2)					
5.1.1.1	Total Owned Generation CO2 Emissions (MT)	1,117,597	1,306,778	1,050,346		2022 Avangrid Sustainability Report, page 79
5.1.1.2	Total Owned Generation CO2 Emissions Intensity (MT/Net MWh)	0.064	0.058	0.046		2022 Avangrid Sustainability Report, page 79
5.1.2	Carbon Dioxide Equivalent (CO2e)					
5.1.2.1	Total Owned Generation CO2e Emissions (MT)	1,118,734	1,590,305	1,375,464		2022 Avangrid Sustainability Report, page 79
5.1.2.2	Total Owned Generation CO2e Emissions Intensity (MT/Net MWh)	0.064	0.070	0.060		
<b>5.4</b>	<b>Non-Generation CO2e Emissions of Sulfur Hexafluoride (SF6) (5)</b>					
5.4.1	Total CO2e emissions of SF6 (MT)	n/a	2,011	32,137		2022 Avangrid Sustainability Report, page 79
5.4.2	Leak rate of CO2e emissions of SF6 (MT/Net MWh)	n/a	n/a	0		
<b>6</b>	<b>Nitrogen Oxide (NOx), Sulfur Dioxide (SO2), Mercury (Hg)</b>					
6.1	Generation basis for calculation (6)					
<b>6.2</b>	<b>Nitrogen Oxide (NOx)</b>					
6.2.1	Total NOx Emissions (MT)	146	134	68		2022 Avangrid Sustainability Report, page 79
6.2.2	Total NOx Emissions Intensity (MT/Net MWh)	0.00001	0.00001	0.00300		2022 Avangrid Sustainability Report, page 79
<b>6.3</b>	<b>Sulfur Dioxide (SO2)</b>					
6.3.1	Total SO2 Emissions (MT)	5	6	5		2022 Avangrid Sustainability Report, page 79
6.3.2	Total SO2 Emissions Intensity (MT/Net MWh)	0.00000	0.00000	0.00020		2022 Avangrid Sustainability Report, page 79
<b>6.4</b>	<b>Mercury (Hg)</b>					
6.4.1	Total Hg Emissions (kg)	0.0	0.0	0.0		
6.4.2	Total Hg Emissions Intensity (kg/Net MWh)	0.00000	0.00000	0.00000		

Use the data organizer on the left (i.e., the plus/minus symbol) to open/close the Emissions section notes

Resources						
<b>7</b>	<b>Human Resources</b>					
7.1	Total Number of Employees	6,809	7,348	7,579		2022 Avangrid Sustainability Report, page 81
7.2	Percentage of Women in Total Workforce	n/a	27%	27.5%		2022 Avangrid Sustainability Report, page 81
7.3	Percentage of Minorities in Total Workforce	n/a	17%	19.8%		2022 Avangrid Sustainability Report, page 81
7.4	Total Number on Board of Directors/Trustees	12	14	14		2023 Avangrid Proxy Statement, page 3
7.5	Percentage of Women on Board of Directors/Trustees	8%	21%	25%		2023 Avangrid Proxy Statement, page 3
7.6	Percentage of Minorities on Board of Directors/Trustees	0%	7%	7%		2023 Avangrid Proxy Statement, page 11
7.7	Employee Safety Metrics					
7.7.1	Recordable Incident Rate	2.41	2.35	2.64		2022 Avangrid Sustainability Report, page 81
7.7.2	Lost-time Case Rate	0.75	0.49	0.71		2022 Avangrid Sustainability Report, page 81
7.7.3	Days Away, Restricted, and Transfer (DART) Rate	n/a	1.85	1.75		2022 Avangrid Sustainability Report, page 81
7.7.4	Work-related Fatalities	0.00	0.00	1		2022 Avangrid Sustainability Report, page 81
<b>8</b>	<b>Fresh Water Resources used in Thermal Power Generation Activities</b>					
8.1	Water Withdrawals - Consumptive (Millions of Gallons)	n/a	44	47		Lost water, so that would be freshwater that left our system and we had to make up. Potable water and well water basically. We do not include losses at our steam host.



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Ref. No.	Refer to the 'EEI Definitions' tab for more information on each metric	Baseline	Current Year	Current Year	Next Year	Comments, Links, Additional Information, and Notes
		2015	2021	2022	2023	
8.2	Water Withdrawals - Non-Consumptive (Millions of Gallons)	n/a	29	30		Water that we sent to the city treatment plant. Revised 2021 data (was reported 9, should be 29)
8.3	Water Withdrawals - Consumptive Rate (Millions of Gallons/Net MWh)					
8.4	Water Withdrawals - Non-Consumptive Rate (Millions of Gallons/Net MWh)					
<b>9</b>	<b>Waste Products</b>					
9.1	Amount of Hazardous Waste Manifested for Disposal	141	602	2,281		
9.2	Percent of Coal Combustion Products Beneficially Used	0%	0%	0%		
<b>Additional Metrics (Optional)</b>						
<i>Insert additional rows in this section as necessary.</i>						

## Definitions for Electric Company ESG/Sustainability Metrics

Ref. No.	Metric Name	Definition	Units Reported in	Time Period (if applicable)	Reference to Source (if applicable)
<b>Portfolio</b>					
1	<b>Owned Nameplate Generation Capacity at end of year (MW)</b>	<b>Provide generation capacity data that is consistent with other external reporting by your company.</b> 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 <b>Form 860 Generator Information</b> . 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> , <a href="https://www.eia.gov/tools/glossary/">https://www.eia.gov/tools/glossary/</a> . Form 860 instructions available at: <a href="http://www.eia.gov/survey/form/eia_860/instructions.pdf">www.eia.gov/survey/form/eia_860/instructions.pdf</a> .
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> , <a href="https://www.eia.gov/tools/glossary/">https://www.eia.gov/tools/glossary/</a> .
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> , <a href="https://www.eia.gov/tools/glossary/">https://www.eia.gov/tools/glossary/</a> .
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> , <a href="https://www.eia.gov/tools/glossary/">https://www.eia.gov/tools/glossary/</a> .
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> , <a href="https://www.eia.gov/tools/glossary/">https://www.eia.gov/tools/glossary/</a> .
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> , <a href="https://www.eia.gov/tools/glossary/">https://www.eia.gov/tools/glossary/</a> .
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> , <a href="https://www.eia.gov/tools/glossary/">https://www.eia.gov/tools/glossary/</a> .
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> , <a href="https://www.eia.gov/tools/glossary/">https://www.eia.gov/tools/glossary/</a> .
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> , <a href="https://www.eia.gov/tools/glossary/">https://www.eia.gov/tools/glossary/</a> .
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> , <a href="https://www.eia.gov/tools/glossary/">https://www.eia.gov/tools/glossary/</a> .
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> , <a href="https://www.eia.gov/tools/glossary/">https://www.eia.gov/tools/glossary/</a> .
1.6	Other	Nameplate capacity of generation resources that are not defined above.	MW	End of Year	
<b>Portfolio</b>					
2	<b>Net Generation for the data year (MWh)</b>	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. <b>Provide net generation data that is consistent with other external reporting by your company.</b> The alternative default is to provide owned generation data as reported to EIA on <b>Form 923 Schedule 3</b> and align purchased power data with the Federal Energy Regulatory Commission (FERC) <b>Form 1 Purchased Power Schedule</b> , 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.	Megawatt hour (MWh): One thousand kilowatt-hours or one million watt-hours.	Annual	U.S. Energy Information Administration, <i>Online Glossary</i> , <a href="https://www.eia.gov/tools/glossary/">https://www.eia.gov/tools/glossary/</a> . Form 923 instructions available at: <a href="http://www.eia.gov/survey/form/eia_923/instructions.pdf">www.eia.gov/survey/form/eia_923/instructions.pdf</a> .
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> , <a href="https://www.eia.gov/tools/glossary/">https://www.eia.gov/tools/glossary/</a> .
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> , <a href="https://www.eia.gov/tools/glossary/">https://www.eia.gov/tools/glossary/</a> .
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> , <a href="https://www.eia.gov/tools/glossary/">https://www.eia.gov/tools/glossary/</a> .
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> , <a href="https://www.eia.gov/tools/glossary/">https://www.eia.gov/tools/glossary/</a> .
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> , <a href="https://www.eia.gov/tools/glossary/">https://www.eia.gov/tools/glossary/</a> .
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> , <a href="https://www.eia.gov/tools/glossary/">https://www.eia.gov/tools/glossary/</a> .
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> , <a href="https://www.eia.gov/tools/glossary/">https://www.eia.gov/tools/glossary/</a> .
2.5.3	Hydroelectric	Net electricity generated by the use of flowing water.	MWh	Annual	U.S. Energy Information Administration, <i>Online Glossary</i> , <a href="https://www.eia.gov/tools/glossary/">https://www.eia.gov/tools/glossary/</a> .

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Ref. No.	Metric Name	Definition	Units Reported in	Time Period (if applicable)	Reference to Source (if applicable)
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> , <a href="https://www.eia.gov/tools/glossary/">https://www.eia.gov/tools/glossary/</a> .
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> , <a href="https://www.eia.gov/tools/glossary/">https://www.eia.gov/tools/glossary/</a> .
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	
<b>3 Capital Expenditures and Energy Efficiency (EE)</b>					
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, <i>Q&amp;A</i> , <a href="http://www.accountingtools.com/questions-and-answers/what-is-a-capital-expenditure.html">http://www.accountingtools.com/questions-and-answers/what-is-a-capital-expenditure.html</a>
3.2	Incremental Annual Electricity Savings from EE Measures (MWh)	Incremental Annual Electricity Savings for the reporting year as reported to EIA on <b>Form 861</b> . 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, <i>Form EIA-861 Annual Electric Power Industry Report Instructions</i> . Available at: <a href="http://www.eia.gov/survey/form/eia_861/instructions.pdf">www.eia.gov/survey/form/eia_861/instructions.pdf</a> .
3.3	Incremental Annual Investment in Electric EE Programs (nominal dollars)	Total annual investment in electric energy efficiency programs as reported to EIA on <b>Form 861</b> .	Nominal Dollars	End of Year	U.S. Energy Information Administration, <i>Form EIA-861 Annual Electric Power Industry Report Instructions</i> . Available at: <a href="http://www.eia.gov/survey/form/eia_861/instructions.pdf">www.eia.gov/survey/form/eia_861/instructions.pdf</a> .
<b>4 Retail Electric Customer Count (at end of year)</b>					
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>Form EIA-861 Annual Electric Power Industry Report Instructions</i> . Available at: <a href="http://www.eia.gov/survey/form/eia_861/instructions.pdf">www.eia.gov/survey/form/eia_861/instructions.pdf</a> .  U.S. Energy Information Administration, <i>Online Glossary</i> , <a href="https://www.eia.gov/tools/glossary/">https://www.eia.gov/tools/glossary/</a> .
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> , <a href="https://www.eia.gov/tools/glossary/">https://www.eia.gov/tools/glossary/</a> .
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> , <a href="https://www.eia.gov/tools/glossary/">https://www.eia.gov/tools/glossary/</a> .
<b>Emissions</b>					
<b>5 GHG Emissions: Carbon Dioxide (CO2) and Carbon Dioxide Equivalent (CO2e)</b>					
<b>5.1 Owned Generation</b>					
<b>5.1.1 Carbon Dioxide (CO2)</b>					
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 <b>GHG Reporting Program</b> (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 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	
<b>5.1.2 Carbon Dioxide Equivalent (CO2e)</b>					
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 <b>GHG Reporting Program</b> (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).

## Definitions for Electric Company ESG/Sustainability Metrics

Ref. No.	Metric Name	Definition	Units Reported in	Time Period (if applicable)	Reference to Source (if applicable)
5.1.2.2	Total Owned Generation CO2e Emissions Intensity	Total direct CO2e emissions from 5.1.2.1, divided by total MWh of <b>owned</b> net generation reported in the Utility Portfolio section.	Metric Tons/Net MWh	Annual	
5.2	<b>Purchased Power</b>				
5.2.1	<b>Carbon Dioxide (CO2)</b>				
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 <b>purchased</b> net generation reported in the Utility Portfolio section.	Metric Tons/Net MWh	Annual	
5.2.2	<b>Carbon Dioxide Equivalent (CO2e)</b>				
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 <b>purchased</b> net generation reported in the Utility Portfolio section.	Metric Tons/Net MWh	Annual	
5.3	<b>Owned Generation + Purchased Power</b>				
5.3.1	<b>Carbon Dioxide (CO2)</b>				
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 <b>owned and purchased</b> net generation reported in the Utility Portfolio section.	Metric Tons/Net MWh	Annual	
5.3.2	<b>Carbon Dioxide Equivalent (CO2e)</b>				
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 <b>owned and purchased</b> net generation reported in the Utility Portfolio section.	Metric Tons/Net MWh	Annual	
5.4	<b>Non-Generation CO2e Emissions of Sulfur Hexafluoride (SF6)</b>				
5.4.1	Total CO2e emissions of SF6	Total CO2e emissions of SF6 in accordance with EPA's <b>GHG Reporting Program</b> (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	Leak rate of CO2e emissions of SF6	Leak rate of CO2e emissions of SF6 in accordance with EPA's <b>GHG Reporting Program</b> (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).
6	<b>Nitrogen Oxide (NOx), Sulfur Dioxide (SO2), Mercury (Hg)</b>				
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	<b>Nitrogen Oxide (NOx)</b>				
6.2.1	Total NOx Emissions	Total NOx emissions from company equity-owned fossil fuel combustion generation. In accordance with EPA's <b>Acid Rain Reporting Program</b> (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	<b>Sulfur Dioxide (SO2)</b>				
6.3.1	Total SO2 Emissions	Total SO2 emissions from company equity-owned fossil fuel combustion generation. In accordance with EPA's <b>Acid Rain Reporting Program</b> (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	<b>Mercury (Hg)</b>				
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 ( <b>MATS</b> ). In the absence of performance-based measures, report value aligned with Toxics Release Inventory ( <b>TRI</b> ) or regulatory equivalent for international operations.	Kilograms	Annual	EPRI, <i>Metrics to Benchmark Electric Power Company Sustainability Performance</i> , 2018 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	
<b>Resources</b>					
7	<b>Human Resources</b>				

## Definitions for Electric Company 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, <a href="http://www.bls.gov/respondents/iif/annualavghours.htm">www.bls.gov/respondents/iif/annualavghours.htm</a> . EPRI, <i>Metrics to Benchmark Electric Power Company Sustainability Performance</i> , 2018 Technical Report.
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, <a href="http://www.archives.gov/eoo/terminology.html">www.archives.gov/eoo/terminology.html</a> . EPRI, <i>Metrics to Benchmark Electric Power Company Sustainability Performance</i> , 2018 Technical Report.
7.3	Percentage of Minorities in Total Workforce	Percentage of minorities in workforce. 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.”	Percent of Employees	Annual	U.S. Equal Employment Opportunity Commission, EEO Terminology, <a href="http://www.archives.gov/eoo/terminology.html">www.archives.gov/eoo/terminology.html</a> . EPRI, <i>Metrics to Benchmark Electric Power Company Sustainability Performance</i> , 2018 Technical Report.
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	
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, <a href="http://www.archives.gov/eoo/terminology.html">www.archives.gov/eoo/terminology.html</a> . EPRI, <i>Metrics to Benchmark Electric Power Company Sustainability Performance</i> , 2018 Technical Report.
7.6	Percentage of Minorities on Board of Directors/Trustees	Percentage 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.”	Percent of Employees	Annual	U.S. Equal Employment Opportunity Commission, EEO Terminology, <a href="http://www.archives.gov/eoo/terminology.html">www.archives.gov/eoo/terminology.html</a> . EPRI, <i>Metrics to Benchmark Electric Power Company Sustainability Performance</i> , 2018 Technical Report.
7.7	Employee Safety Metrics				
7.7.1	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 Electric Power Company Sustainability Performance</i> , 2018 Technical Report.
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 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 Electric Power Company Sustainability Performance</i> , 2018 Technical Report.
7.7.3	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> , 2018 Technical Report.
7.7.4	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 Electric Power Company Sustainability Performance</i> , 2018 Technical Report.
8	<b>Fresh Water Resources used in Thermal Power Generation Activities</b>				
8.1	Water Withdrawals - Consumptive (Millions of Gallons)	Amount 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.	Millions of Gallons	Annual	Partially sourced from EPRI, <i>Metrics to Benchmark Electric Power Company Sustainability Performance</i> , 2018 Technical Report.



## Definitions for Electric Company ESG/Sustainability Metrics

Ref. No.	Metric Name	Definition	Units Reported in	Time Period (if applicable)	Reference to Source (if applicable)
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, <i>Metrics to Benchmark Electric Power Company Sustainability Performance, 2018 Technical Report.</i>
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, <i>Metrics to Benchmark Electric Power Company Sustainability Performance, 2018 Technical Report.</i>
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, <i>Metrics to Benchmark Electric Power Company Sustainability Performance, 2018 Technical Report.</i>
<b>9 Waste Products</b>					
9.1	Amount of Hazardous Waste Manifested for Disposal	Metric 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). Include hazardous waste from all company operations including generation, transmissions, distribution, and other operations.	Metric Tons	Annual	Partially sourced from EPRI, <i>Metrics to Benchmark Electric Power Company Sustainability Performance, 2018 Technical Report.</i>
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 by-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, <i>Metrics to Benchmark Electric Power Company Sustainability Performance, 2018 Technical Report.</i>

Goal Applicability	Baseline Year	Target Year	Reduction Goal Description (Short)	Source (URL)
AVANGRID	2015	2030	Reduce Scope 1 generation based emissions intensity by 70% from base year 2015 to 2030 to 18 g/kwh	<a href="#">Avangrid 2021 Sustainability Report</a>
AVANGRID	2020	2030	Scopes 1 & 2 combined carbon neutral by 2030 with 90% emissions reduction from base year 2020 and neutralization of residual emissions	<a href="#">Avangrid 2021 Sustainability Report</a>



# 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, BERKSHIRE 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	Current Year 2021	Current Year 2022	Next Year 2023	Comments, Links, Additional Information, and Notes
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## Natural Gas Distribution

<b>1</b>	<b>METHANE EMISSIONS AND MITIGATION FROM DISTRIBUTION MAINS</b>					
1.1	Number of Gas Distribution Customers	984167	1,029,202	1,033,922		2022 Avangrid 10K report, page 9
1.2	Distribution Mains in Service		830,516	872,740		2022 Distribution DOT report
1.2.1	Plastic (miles)	6293.776	7205	7,888		2022 Distribution DOT report
1.2.2	Cathodically Protected Steel - Bare & Coated (miles)	6267.791	6196	6536		2022 Distribution DOT report
1.2.3	Unprotected Steel - Bare & Coated (miles)	572.607	241	258		2022 Distribution DOT report
1.2.4	Cast Iron / Wrought Iron - without upgrades (miles)	1068.777	864	848		2022 Distribution DOT report
1.3	Plan/Commitment to Replace / Upgrade Remaining Miles of Distribution Mains (# years to complete)		CT ~16 years NY ~2 years	CT - SCG ~14years CT - CNG ~10 years MA - BGC ~10 years NY - NYSEG & RGE ~5-7years		
1.3.1	Unprotected Steel (Bare & Coated) (# years to complete)		0	CT - SCG ~14years - bare steel CT - CNG~10 years - bare steel MA - BGC~6 years for both NY - NYSEG ~ 3.2 years - bare steel NY - RGE ~ 1.7 years - bare steel		
1.3.2	Cast Iron / Wrought Iron (# years to complete)		0	MA - BGC~6 years NY - NYSEG ~ 0.2 years		
<b>2</b>	<b>Distribution CO2e Fugitive Emissions</b>		248,995	237,626		2022 Iberdrola Greenhouse Gas Report
2.1	CO2e Fugitive Methane Emissions from Gas Distribution Operations (metric tons)	256350	222,289	237,626		2022 Avangrid Sustainability Report, page 79
2.2	CH4 Fugitive Methane Emissions from Gas Distribution Operations (metric tons)	10254	8751	8,487		
2.2.1	CH4 Fugitive Methane Emissions from Gas Distribution Operations (MMSCF/year)	534.0625	455.78	466.79		
2.3	Annual Natural Gas Throughput from Gas Distribution Operations in thousands of standard cubic feet (Mscf/year)	205365000	193905000	199725000		2022 Avangrid 10K report, page 9
2.3.1	Annual Methane Gas Throughput from Gas Distribution Operations in millions of standard cubic feet (MMscf/year)	195096.75	184209.75	189738.75		2015 & 2021 data updated to reflect Avangrid 10K Reports Formula: (L35/1000)*0.95
2.4	Fugitive Methane Emissions Rate (Percent MMscf of Methane Emissions per MMscf of Methane Throughput)	0%				

## Natural Gas Transmission and Storage

<b>1</b>	<b>Onshore Natural Gas Transmission Compression Methane Emissions</b>					
1.1.1	Pneumatic Device Venting (metric tons/year)	N/A	N/A	N/A	N/A	
1.1.2	Blowdown Vent Stacks (metric tons/year)	N/A	N/A	N/A	N/A	
1.1.3	Transmission Storage Tanks (metric tons/year)	N/A	N/A	N/A	N/A	
1.1.4	Flare Stack Emissions (metric tons/year)	N/A	N/A	N/A	N/A	
1.1.5	Centrifugal Compressor Venting (metric tons/year)	N/A	N/A	N/A	N/A	

1.1.6	Reciprocating Compressor Venting (metric tons/year)	N/A	N/A	N/A	N/A	
1.1.7	Equipment leaks from valves, connectors, open ended lines, pressure relief valves, and meters (metric tons/year)	N/A	N/A	N/A	N/A	
1.1.8	Other Leaks (metric tons/year)	N/A	N/A	N/A	N/A	
1.2	Total Transmission Compression Methane Emissions (metric tons/year)	N/A	N/A	N/A	N/A	
1.3	Total Transmission Compression Methane Emissions (CO2e/year)	N/A	N/A	N/A	N/A	
1.4	Total Transmission Compression Methane Emissions (MSCF/year)	N/A	N/A	N/A	N/A	
<b>2</b>	<b>Underground Natural Gas Storage Methane Emissions</b>					
2.1.1	Pneumatic Device Venting (metric tons/year)	N/A	N/A	N/A	N/A	
2.1.2	Flare Stack Emissions (metric tons/year)	N/A	N/A	N/A	N/A	
2.1.3	Centrifugal Compressor Venting (metric tons/year)	N/A	N/A	N/A	N/A	
2.1.4	Reciprocating Compressor Venting (metric tons/year)	N/A	N/A	N/A	N/A	
2.1.5	Equipment leaks from valves, connectors, open ended lines, pressure relief valves, and meters (metric tons/year)	N/A	N/A	N/A	N/A	
2.1.6	Other Equipment Leaks (metric tons/year)	N/A	N/A	N/A	N/A	
2.1.7	Equipment leaks from valves, connectors, open-ended lines, and pressure relief valves associated with storage wellheads (metric tons/year)	N/A	N/A	N/A	N/A	
2.1.8	Other equipment leaks from components associated with storage wellheads (metric tons/year)	N/A	N/A	N/A	N/A	
2.2	Total Storage Compression Methane Emissions (metric tons/year)	N/A	N/A	N/A	N/A	
2.3	Total Storage Compression Methane Emissions (CO2e/year)	N/A	N/A	N/A	N/A	
2.4	Total Storage Compression Methane Emissions (MSCF/year)	N/A	N/A	N/A	N/A	
<b>3</b>	<b>Onshore Natural Gas Transmission Pipeline Blowdowns</b>					
3.1	Transmission Pipeline Blowdown Vent Stacks (metric tons/year)	N/A	N/A	N/A	N/A	
3.2	Transmission Pipeline Blowdown Vent Stacks (CO2e/year)	N/A	N/A	N/A	N/A	
3.3	Transmission Pipeline Blowdown Vent Stacks (MSCF/year)	N/A	N/A	N/A	N/A	
<b>4</b>	<b>Other Non-Sub W Emissions Data (OPTIONAL)</b>					
4.1	Total Methane Emissions from additional sources not recognized by 40 CFR 98 Subpart W (metric tons/year)	N/A	N/A	N/A	N/A	
4.2	Total Methane Emissions from additional sources not recognized by 40 CFR 98 Subpart W (CO2e/year)	N/A	N/A	N/A	N/A	
4.3	Total Methane Emissions from additional sources not recognized by 40 CFR 98 Subpart W (MSCF/year)	N/A	N/A	N/A	N/A	
<b>5</b>	<b>Summary and Metrics</b>					
5.1	Total Transmission and Storage Methane Emissions (MMSCF/year)	N/A	N/A	N/A	N/A	
5.2	Annual Natural Gas Throughput from Gas Transmission and Storage Operations (MSCF/year)	N/A	N/A	N/A	N/A	
5.2.1	Annual Methane Gas Throughput from Gas Transmission and Storage Operations (MMSCF/year)	N/A	N/A	N/A	N/A	
5.3	Methane Emissions Intensity Metric (Percent MMscf of Methane Emissions per MMscf of Methane Throughput)					

**Natural Gas Gathering and Boosting**

1	METHANE EMISSIONS	N/A	N/A	N/A	N/A	
1.1	Gathering and Boosting Pipelines, Blow Down Volumes, and Emissions	N/A	N/A	N/A	N/A	
1.1.1	Total Miles of Gathering Pipeline Operated by gas utility (miles)	N/A	N/A	N/A	N/A	
1.1.2	Volume of Gathering Pipeline Blow Down Emissions (scf)	N/A	N/A	N/A	N/A	
1.1.4	Gathering Pipeline Blow-Down Emissions outside storage and compression facilities (metric tons CO2e)	N/A	N/A	N/A	N/A	
2	CO2e COMBUSTION EMISSIONS FOR GATHERING & BOOSTING COMPRESSION	N/A	N/A	N/A	N/A	
2.1	CO2e Emissions for Gathering & Boosting Compression Stations (metric tons)	N/A	N/A	N/A	N/A	
3	CONVENTIONAL COMBUSTION EMISSIONS FROM GATHERING & BOOSTING COMPRESSION	N/A	N/A	N/A	N/A	
3.1	Emissions reported for all permitted sources (minor or major)	N/A	N/A	N/A	N/A	
3.1.1	NOx (metric tons per year)	N/A	N/A	N/A	N/A	
3.1.2	VOC (metric tons per year)	N/A	N/A	N/A	N/A	

**Human Resources**

7.1	Total Number of Employees		7,348	7,579		2022 Avangrid Sustainability Report, page 81
7.2	Percentage of Women in Total Workforce		27%	27.5%		2022 Avangrid Sustainability Report, page 81
7.3	Percentage of Minorities in Total Workforce		17%	19.8%		2022 Avangrid Sustainability Report, page 81
7.4	Total Number on Board of Directors/Trustees		14	14		2023 Avangrid Proxy Statement, page 3
7.5	Percentage of Women on Board of Directors/Trustees		21%	25%		2023 Avangrid Proxy Statement, page 3
7.6	Percentage of Minorities on Board of Directors/Trustees		7%	7%		2023 Avangrid Proxy Statement, page 11
7.7	Employee Safety Metrics					
7.7.1	Recordable Incident Rate		2.35	2.64		2022 Avangrid Sustainability Report, page 81
7.7.2	Lost-time Case Rate		0.49	0.71		2022 Avangrid Sustainability Report, page 81
7.7.3	Days Away, Restricted, and Transfer (DART) Rate		1.85	1.75		2022 Avangrid Sustainability Report, page 81
7.7.4	Work-related Fatalities		0.00	1		2022 Avangrid Sustainability Report, page 81

**Additional Metrics (Optional)**

*Insert additional rows in this section as necessary.*

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