

Avangrid EEI / AGA Report

2024



Electric Company ESG/Sustainability Quantitative Information

Parent Company: AVANGRID, INC.
Operating Company(s): AVANGRID POWER, CENTRAL MAINE POWER, NEW YORK STATE ELECTRIC & GAS, ROCHESTER GAS & ELECTRIC, UNITED ILLUMINATING
(e.g., vertically integrated, T&D only, competitive integrated)
Business Type(s):
State(s) of Operation:
State(s) with RPS
Regulatory *(e.g., deregulated, regulated, both)*
Report Date: Oct-25

		Baseline	Previous year	Previous Year	Current Year	
Ref. No.	Refer to the 'EEI Definitions' tab for more information on each metric	2015	2022	2023	2024	2024 Comments
Portfolio						
1	Owned Nameplate Generation Capacity at end of year (MW)	6,458	9,542	9,673	10,543	
1.1	Coal					
1.2	Natural Gas	645	840	840	636	
1.2.1	-Co-Generation		636	636	636	
1.2.2	-Own Peaking		204	204	0	
1.3	Nuclear					
1.4	Petroleum					
1.5	Total Renewable Energy Resources	5,813	8,702	8,833	9,703	
1.5.1	Biomass/Biogas					
1.5.2	Geothermal					
1.5.3	Hydroelectric	118	118	118	118	
1.5.4	Solar	50	509	618	1,384	
1.5.5	Wind	5,645	8,061	8,084	8,188	2023 & 2024 Includes both onshore and offshore. Prior years do not include offshore.
1.6	Other		13	13	13	
2	Net Generation for the data year (MWh)	17,417,000	22,807,000	23,326,000	24,785,000	
2.1	Coal					
2.2	Natural Gas	2,790,000	2,516,000	3,144,000	3,884,000	
2.3	Nuclear					
2.4	Petroleum					
2.5	Total Renewable Energy Resources	14,627,000	20,283,000	20,176,000	20,897,000	
2.5.1	Biomass/Biogas					
2.5.2	Geothermal					
2.5.3	Hydroelectric	366,000	188,000	245,000	211,000	
2.5.4	Solar	126,000	314,000	834,000	1,280,530	Increased production this year due to bringing 2 sites online and having full production from 2 site brought online in 2023.
2.5.5	Wind	14,135,000	19,612,000	19,019,000	19,294,000	
2.6	Other		74,000	78,000	72,470	

		Baseline	Previous year	Previous Year	Current Year	
Ref. No.	Refer to the 'EEI Definitions' tab for more information on each metric	2015	2022	2023	2024	2024 Comments
2.i	Owned Net Generation for the data year (MWh)					
2.1.i	Coal					
2.2.i	Natural Gas					
2.3.i	Nuclear					
2.4.i	Petroleum					
2.5.i	Total Renewable Energy Resources					
2.5.1.i	Biomass/Biogas					
2.5.2.i	Geothermal					
2.5.3.i	Hydroelectric					
2.5.4.i	Solar					
2.5.5.i	Wind					
2.6.i	Other					
2.ii	Purchased Net Generation for the data year (MWh)					
2.1.ii	Coal					
2.2.ii	Natural Gas					
2.3.ii	Nuclear					
2.4.ii	Petroleum					
2.5.ii	Total Renewable Energy Resources					
2.5.1.ii	Biomass/Biogas					
2.5.2.ii	Geothermal					
2.5.3.ii	Hydroelectric					
2.5.4.ii	Solar					
2.5.5.ii	Wind					
2.6.ii	Other					
3	Capital Expenditures and Energy Efficiency (EE)					
3.1	Total Annual Capital Expenditures (nominal dollars)	\$1,168,000,000	\$2,698,000.00	\$3,070,000.00	\$3,677,000.00	
3.2	Incremental Annual Electricity Savings from EE Measures (MWh)	204,254	251,849	270,690	212,958	
3.2.1	-New York State Gas & Electric			150,407	135,641	
3.2.2	-Rochester Gas & Electric			87,083	54,130	
3.2.3	-United Illuminating			\$33,200	\$23,187	
3.3	Incremental Annual Investment in Electric EE Programs (nominal dollars)	\$66,553,179	\$50,145,413	\$90,441,736	\$95,214,392	
4	Retail Electric Customer Count (at end of year)	2,208,195	2,308,908	2,320,520	2,332,216	
4.1	Commercial		269,353	270,929	274,628	
4.1.1	New York State Gas & Electric		124,082	124,477	127,640	
4.1.2	Rochester Gas & Electric		40,199	39,955	39,631	
4.1.3	Central Maine Power Company		73,113	74,706	75,774	
4.1.4	United Illuminating		31,959	31,791	31,583	
4.2	Industrial		5,001	4,761	4,537	
4.2.1	New York State Gas & Electric		1,596	1,535	1,480	
4.2.2	Rochester Gas & Electric		678	651	624	
4.2.3	Central Maine Power Company		1,923	1,804	1,688	
4.2.4	United Illuminating		804	771	745	

		Baseline	Previous year	Previous Year	Current Year	
Ref. No.	Refer to the 'EEI Definitions' tab for more information on each metric	2015	2022	2023	2024	2024 Comments
4.3	Residential		2,031,260	2,041,554	2,049,807	
4.3.1	New York State Gas & Electric		789,414	792,523	791,179	
4.3.2	Rochester Gas & Electric		349,585	350,548	352,413	
4.3.3	Central Maine Power Company		582,200	587,190	592,502	
4.3.4	United Illuminating		310,061	311,293	313,713	
4.4	Other		3,294	3,276	3,244	
4.4.1	New York State Gas & Electric		1,117	1,115	1,103	
4.4.2	Rochester Gas & Electric		485	480	477	
4.4.3	Central Maine Power Company		559	560	556	
4.4.4	United Illuminating		1,133	1,121	1,108	
Emissions						
5	GHG Emissions: Carbon Dioxide (CO2) and Carbon Dioxide Equivalent (CO2e)					
	Note: The alternatives available below are intended to provide flexibility in reporting GHG emissions, and should be used to the extent appropriate for each company.					
5.1	Owned Generation (1) (2) (3)					
5.1.1	Carbon Dioxide (CO2)					
5.1.1.1	Total Owned Generation CO2 Emissions (MT)	1,117,597	1,050,346	1,292,286	1,555,373	Reflects generation emissions
5.1.1.2	Total Owned Generation CO2 Emissions Intensity (MT/Net MWh)	0.064	0.046	0.055	0.063	
5.1.2	Carbon Dioxide Equivalent (CO2e)					
5.1.2.1	Total Owned Generation CO2e Emissions (MT)	1,118,734	1,375,464	1,636,499	1,879,004	Reflects total emissions
5.1.2.2	Total Owned Generation CO2e Emissions Intensity (MT/Net MWh)	0.064	0.060	0.070	0.076	
5	Purchased Power (4)					
5.2.1	Carbon Dioxide (CO2)					
5.2.1.1	Total Purchased Generation CO2 Emissions (MT)					
5.2.1.2	Total Purchased Generation CO2 Emissions Intensity (MT/Net MWh)					
5.2.2	Carbon Dioxide Equivalent (CO2e)					
5.2.2.1	Total Purchased Generation CO2e Emissions (MT)					
5.2.2.2	Total Purchased Generation CO2e Emissions Intensity (MT/Net MWh)					
5	Owned Generation + Purchased Power					
5.3.1	Carbon Dioxide (CO2)					
5.3.1.1	Total Owned + Purchased Generation CO2 Emissions (MT)					
5.3.1.2	Total Owned + Purchased Generation CO2 Emissions Intensity (MT/Net MWh)					
5.3.2	Carbon Dioxide Equivalent (CO2e)					
5.3.2.1	Total Owned + Purchased Generation CO2e Emissions (MT)					
5.3.2.2	Total Owned + Purchased Generation CO2e Emissions Intensity (MT/Net MWh)					

		Baseline	Previous year	Previous Year	Current Year	
Ref. No.	Refer to the 'EEI Definitions' tab for more information on each metric	2015	2022	2023	2024	2024 Comments
5.4	Non-Generation CO2e Emissions of Sulfur Hexafluoride (SF6) (5)					
5.4.1	Total CO2e emissions of SF6 (MT)	n/a	32,137	22,697	8,529	Decrease number of leaks
5.4.2	Leak rate of CO2e emissions of SF6 (MT/Net MWh)	n/a	0	0	0	
6	Nitrogen Oxide (NOx), Sulfur Dioxide (SO2), Mercury (Hg)					
6.1	Generation basis for calculation (6)					
6.2	Nitrogen Oxide (NOx)					
6.2.1	Total NOx Emissions (MT)	146	68	72	63	
6.2.2	Total NOx Emissions Intensity (MT/Net MWh)	0.00001	0.00300	0.00319	0.00259	
6.3	Sulfur Dioxide (SO2)					
6.3.1	Total SO2 Emissions (MT)	5	5	6	8	
6.3.2	Total SO2 Emissions Intensity (MT/Net MWh)	0.00000	0.00020	0.00028	0.00031	
6.4	Mercury (Hg)					
6.4.1	Total Hg Emissions (kg)	0.0	0.0	0.0	0.0	
6.4.2	Total Hg Emissions Intensity (kg/Net MWh)	0.00000	0.00000	0.00000	0.00000	
Resources						
7	Human Resources					
7.1	Total Number of Employees	6,809	7,579	7,999	8,269	
7.2	Percentage of Women in Total Workforce	n/a	27.5%	28 %	Iberdrola Sustainability Reporting (page 219)	
7.3	Percentage of Minorities in Total Workforce	n/a	19.8%	20.3 %	NA	
7.4	Total Number on Board of Directors/Trustees	12	14	14	9	
7.5	Percentage of Women on Board of Directors/Trustees	8%	25%	29%	NA	
7.6	Percentage of Minorities on Board of Directors/Trustees	-%	7%	57%	NA	
7.7	Employee Safety Metrics					
7.7.1	Recordable Incident Rate	2.41	2.64	2.11	1.97	
7.7.2	Lost-time Case Rate	0.75	0.71	0.57	0.64	
7.7.3	Days Away, Restricted, and Transfer (DART) Rate	n/a	1.63	1.63	1.42	
7.7.4	Work-related Fatalities	0	0	0	1	1 contractor fatality
8	Fresh Water Resources used in Thermal Power Generation Activities					
8.1	Water Withdrawals - Consumptive (Millions of Gallons)	n/a	47	68	46	
8.2	Water Withdrawals - Non-Consumptive (Millions of Gallons)	n/a	30	27	22	
8.3	Water Withdrawals - Consumptive Rate (Millions of Gallons/Net MWh)					
8.4	Water Withdrawals - Non-Consumptive Rate (Millions of Gallons/Net MWh)					

		Baseline	Previous year	Previous Year	Current Year	
Ref. No.	Refer to the 'EEI Definitions' tab for more information on each metric	2015	2022	2023	2024	2024 Comments
9	Waste Products					
9.1	Amount of Hazardous Waste Manifested for Disposal	141	2,281	414	6,200	Variations in waste totals from 2023-2024 are due to an internal reclassification process that properly aligned U.S. Federal/State waste codes and European waste codes, however these figures should not be compared to values reported to the EPA due to fundamental differences in classification systems.
9.2	Percent of Coal Combustion Products Beneficially Used	-%	-%	-%	-%	
For definitions and footnotes, please check Quantitative metrics and definitions in the EEI website. © 2021 Edison Electric Institute. All rights reserved.						

ESG/SUSTAINABILITY: QUALITATIVE INFORMATION 2023

Emission Reduction Goals

[See Avangrid 2024 Corporate Responsibility Report](#)

Sustainability Goals Scorecard: Environmental Goals, page 15

ESG/SUSTAINABILITY GOVERNANCE

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ESG/SUSTAINABILITY STRATEGY

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Gas Company ESG/Sustainability Quantitative

Parent Company: AVANGRID, INC.
Operating Company(s): CONNECTICUT NATURAL GAS, SOUTHERN CONNECTICUT GAS, NEW YORK STATE ELECTRIC & GAS, ROCHESTER GAS & ELECTRIC, MAINE NATURAL GAS, BERKSHIRE GAS
Business Type(s): (e.g., vertically integrated, T&D only, competitive integrated)
State(s) of Operation:
Regulatory Report Date: (e.g., deregulated, regulated, both)
 Oct-25

		Baseline	Previous Year	Previous Year	Current Year	
Ref. No.	Refer to the "Definitions" column for more information on each metric.	2015	2022	2023	2024	2024 Comments
Natural Gas Distribution						
I.0	METHANE EMISSIONS AND MITIGATION FROM DISTRIBUTION MAINS					
I.1	Number of Gas Distribution Customers	984,167.00	1,037,277	1,039,940	1,045,356	
I.1.1	-Berkshire Gas		40,760	40,644	40,586	
I.1.2	-Connecticut Natural Gas		186,227	187,790	189,256	
I.1.3	-Maine Natural Gas		5,935	6,136	6,261	
I.1.4	-New York State Electric & Gas		271,955	271,976	271,926	
I.1.5	-Rochester Gas & Electric		323,496	324,793	325,838	
I.1.6	-Southern Connecticut Gas		208,904	208,601	211,489	
I.2	Distributions Main in Service					
I.2.1	Plastic (miles)	6,293.78	7,887	13,479	13,614	
I.2.1.1	-Berkshire Gas		341	349	350	
I.2.1.2	-Connecticut Natural Gas		1,010	1,022	1,039	
I.2.1.3	-Maine Natural Gas		204	204	206	
I.2.1.4	-New York State Electric & Gas		2,648	2,688	2,725	
I.2.1.5	-Rochester Gas & Electric		2,454	2,502	2,550	
I.2.1.6	-Southern Connecticut Gas		1230	1,241	1,267	
I.2.2	Cathodically Protected Steel - Bare & Coated (miles)	6,267.79	6535	7,780	7,806	
I.2.2.1	-Berkshire Gas		360	358	358	
I.2.2.2	-Connecticut Natural Gas		941	940	940	
I.2.2.3	-Maine Natural Gas		25	25	25	
I.2.2.4	-New York State Electric & Gas		2131	2,108	2,086	
I.2.2.5	-Rochester Gas & Electric		2443	2,415	2,390	
I.2.2.6	-Southern Connecticut Gas		635	635	636	
I.2.3	Unprotected Steel - Bare & Coated (miles)	572.61	259	471	460	
I.2.3.1	-Berkshire Gas		29	28	28	
I.2.3.2	-Connecticut Natural Gas		13	11	10	
I.2.3.3	-Maine Natural Gas		0	0	0	
I.2.3.4	-New York State Electric & Gas		83	76	65	
I.2.3.5	-Rochester Gas & Electric		50	43	36	
I.2.3.6	-Southern Connecticut Gas		84	83	80	

		Baseline	Previous Year	Previous Year	Current Year	
Ref. No.	Refer to the "Definitions" column for more information on each metric.	2015	2022	2023	2024	2024 Comments
1.2.4	Cast Iron / Wrought Iron - without upgrades (<i>miles</i>)	1,068.78	848	809	764	
1.2.4.1	- Berkshire Gas		36	30	29	
1.2.4.2	- Connecticut Natural Gas		250	236	220	
1.2.4.3	- Maine Natural Gas		0	0	0	
1.2.4.4	- New York State Electric & Gas		4	3	2	
1.2.4.5	- Rochester Gas & Electric		0	0	0	
1.2.4.6	- Southern Connecticut Gas		558	539	510	
1.3	Plan/Commitment to Replace / Upgrade Remaining Miles of Distribution Mains (<i># years to complete</i>)		CT - SCG ~14years CT - CNG ~10 years MA - BGC ~10 years NY - NYSEG & RGE ~5-7years	CT - SCG ~13 years CT - CNG ~9 years MA - BGC ~14 years NY - NYSEG/RGE ~6 years	CT - SCG ~13 years CT - CNG ~9 years MA - BGC ~6 years NY - NYSEG/RGE ~6 years	
1.3.1	Unprotected Steel (Bare & Coated) (<i># years to complete</i>)		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	CT - SCG ~13 years CT - CNG ~9 years MA - BGC ~5 years NY - NYSEG ~6 years NY - RGE ~3-6 years	CT - SCG ~13 years CT - CNG ~9 years MA - BGC ~6 years NY - NYSEG ~6 years NY - RGE ~6 years	
1.3.2	Cast Iron / Wrought Iron (<i># years to complete</i>)		MA - BGC ~6 years NY - NYSEG ~ 0.2 years	CT - SCG ~13 years CT - CNG ~9 years MA - BGC ~5 years NY - NYSEG ~2-6 years NY - RGE fully replaced	CT - SCG ~13 years CT - CNG ~9 years MA - BGC ~6 years NY - NYSEG ~6 years NY - RGE fully replaced	
2.0	Distribution CO2e Fugitive Emissions		237,626	222,897	217,890	
2.1	CO2e Fugitive Methane Emissions from Gas Distribution Operations (<i>metric tons</i>)	256,350.00	237,626	222,897	217,890	
2.2	CH4 Fugitive Methane Emissions from Gas Distribution Operations (<i>metric tons</i>)	10,254.00	8,487	7,961	7,810	
2.2.1	CH4 Fugitive Methane Emissions from Gas Distribution Operations (MMSCF/year)	534.06	466.79	437.86	429.55	
2.3	Annual Natural Gas Throughput from Gas Distribution Operations in thousands of standard cubic feet (<i>Mscf/year</i>)	205,365,000.00	199,725,000	185,839,014	182,748,950	
2.3.1	Annual Methane Gas Throughput from Gas Distribution Operations in millions of standard cubic feet (MMscf/year)	195,097	189,739	176,547	173,612	
2.4	Fugitive Methane Emissions Rate (Percent MMscf of Methane Emissions per MMscf of Methane Throughput)	—				

		Baseline	Previous Year	Previous Year	Current Year	
Ref. No.	Refer to the "Definitions" column for more information on each metric.	2015	2022	2023	2024	2024 Comments
Natural Gas Transmission and Storage						
1.0	Onshore Natural Gas Transmission Compression Methane					
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	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	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	
2.0	Underground Natural Gas Storage Methane Emissions					
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	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	N/A	N/A	N/A	N/A	
2.1.8	Other equipment leaks from components associated with storage	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	
3.0	Onshore Natural Gas Transmission Pipeline Blowdowns					
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	
4.0	Other Non-Sub W Emissions Data (OPTIONAL)					
4.1	Total Methane Emissions from additional sources not recognized by	N/A	N/A	N/A	N/A	
4.2	Total Methane Emissions from additional sources not recognized by	N/A	N/A	N/A	N/A	
4.3	Total Methane Emissions from additional sources not recognized by	N/A	N/A	N/A	N/A	
5.0	Summary and Metrics					
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	N/A	N/A	N/A	N/A	
5.3	Methane Emissions Intensity Metric (Percent MMscf of Methane					

		Baseline	Previous Year	Previous Year	Current Year	
Ref. No.	Refer to the "Definitions" column for more information on each metric.	2015	2022	2023	2024	2024 Comments
Natural Gas Gathering and Boosting						
1.0	METHANE EMISSIONS	N/A	N/A	N/A	N/A	
1.1	Gathering and Boosting Pipelines, Blow Down Volumes, and	N/A	N/A	N/A	N/A	
1.1.1	Total Miles of Gathering Pipeline Operated by gas utility (<i>miles</i>)	N/A	N/A	N/A	N/A	
1.1.2	Volume of Gathering Pipeline Blow Down Emissions (<i>scf</i>)	N/A	N/A	N/A	N/A	
1.1.4	Gathering Pipeline Blow-Down Emissions outside storage and	N/A	N/A	N/A	N/A	
		N/A	N/A	N/A	N/A	
2.0	CO2e COMBUSTION EMISSIONS FOR GATHERING & BOOSTING	N/A	N/A	N/A	N/A	
2.1	CO2e Emissions for Gathering & Boosting Compression Stations	N/A	N/A	N/A	N/A	
		N/A	N/A	N/A	N/A	
3.0	CONVENTIONAL COMBUSTION EMISSIONS FROM GATHERING &	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 (<i>metric tons per year</i>)	N/A	N/A	N/A	N/A	
3.1.2	VOC (<i>metric tons per year</i>)	N/A	N/A	N/A	N/A	
Human Resources						
1.1	Total Number of Employees		7,579	7,999	8,269	
1.2	Percentage of Women in Total Workforce		27.5%	28%	Iberdrola Sustainability Reporting! (page 219)	
1.3	Percentage of Minorities in Total Workforce		19.8%	20.3 %	NA	
2.1	Total Number on Board of Directors/Trustees		14	14	9	
2.2	Percentage of Women on Board of Directors/Trustees		25%	29%	NA	
2.3	Percentage of Minorities on Board of Directors/Trustees		7%	57%	NA	
3.0	Employee Safety Metrics					
3.1	Recordable Incident Rate		2.64	2.11	1.97	
3.2	Lost-time Case Rate		0.71	0.57	0.64	
3.3	Days Away, Restricted, and Transfer (DART) Rate		1.75	1.63	1.42	
3.4	Work-related Fatalities		1	0	1	1 contractor fatality
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