

Oglethorpe Power Corporation

EI ESG/SUSTAINABILITY REPORTING TEMPLATE

Oglethorpe Power Corporation has selected the voluntary Environmental, Social, Governance (ESG) and Sustainability reporting template developed by the Edison Electric Institute (EEI) to provide summary ESG information on our generation portfolio in a consistent format across the electric utility sector. Our reporting template includes data on Oglethorpe Power, as well as related companies, Smarr EMC and Green Power EMC, that Oglethorpe Power supports through various contractual services. This report provides quantitative sustainability metrics for voluntary use that are consistent with the sustainability reporting template developed by EEI. We intend to publish this information on an annual basis.

Oglethorpe Power serves 38 consumer-owned, not-for-profit distribution cooperatives that provide retail electricity to 4.4 million Georgians. Together with our member cooperatives, we are committed to a thoughtful approach to reducing carbon emissions and transitioning to a cleaner energy future, while continuing to deliver the cost-effective, reliable and resilient electricity our members and their consumers rely on every day.

In 2021, Oglethorpe Power supplied 62% of our members' power requirements. For the remainder of their energy needs, our members have power supply contracts with other suppliers and power marketers. To deliver our portion of our members' power requirements, Oglethorpe Power owns and operates a diverse portfolio of nuclear, natural gas, hydro and coal resources.

In 2021, we acquired the Effingham Energy Facility, one of Georgia's most efficient natural gas-fired generating plants. As we've strategically increased our use of highly efficient and low carbon-emitting natural gas, we've simultaneously recorded a 77% reduction in our use of coal since 2005. Our coal generation will continue to decline with the August 2022 retirement of Plant Wansley, of which Oglethorpe Power held 30% ownership. In 2025, we project that coal will account for less than 5% of our diverse energy portfolio.

In partnership with three co-owners, Oglethorpe Power is building the first advanced commercial nuclear project in the United States in more than 30 years, Plant Vogtle Units 3 and 4. Once online, our ownership in these nuclear units will add more than 600 megawatts of reliable, emission-free energy to our resource mix. At that time, nuclear will account for nearly half of the energy delivered to our members by Oglethorpe Power and its related companies, Green Power EMC and Smarr EMC. With this significant investment in nuclear, we project that our collective

carbon dioxide emissions intensity rate will decline by 56% in 2025, compared to 2005.

Green Power EMC is owned by and serves our same 38 members, and sources renewable generation for the cooperative energy portfolio. In addition to their membership in Green Power EMC, our members purchase solar energy directly from solar providers and hydropower from the Southeastern Power Administration. In total, our members have more than 1,500 megawatts of renewable capacity online today, of which solar accounts for more than 60%. Oglethorpe Power provides management and various contractual services to Green Power EMC.

Smarr EMC, another related company to Oglethorpe Power, is owned by 35 of our 38 members. Smarr EMC owns two simple-cycle natural gas plants for which Oglethorpe Power provides management, operations and administrative services.

As a member-owned cooperative that operates on a not-for-profit basis, Oglethorpe Power is governed by a democratically elected Board of Directors who reside in the community their electric cooperative serves. In combination with our robust risk management and strategic planning processes, our Board's guidance will help Oglethorpe Power navigate the clean energy transition.

In the years ahead, as technological advancements progress, Oglethorpe Power will continue to plan for strategic shifts in our generation portfolio that will allow us to further reduce our carbon emissions. Putting the needs of our members first, we are committed to transitioning to a cleaner energy future that preserves both affordability and reliability for the 4.4 million Georgians our members serve.

Our 2022 ESG Report, which details comprehensive information about our ESG-related efforts, can be accessed at www.opc.com/ESG.

ADDITIONAL RESOURCES

The following resources can be accessed at www.opc.com/ESG:

- [Oglethorpe Power 2022 ESG Report](#)
- [EEI ESG/Sustainability Quantitative Information](#)
- [Code of Conduct](#)
- [Safety Policy](#)
- [Investor Relations Presentations](#)
- [SEC Filings](#)
- [Green Power EMC](#)

Disclaimer

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Electric Company ESG/Sustainability Quantitative Information



Parent Company: Oglethorpe Power Corporation (OPC)
Operating Company(s): Oglethorpe Power Corporation (OPC)
Business Type(s): Generation Cooperative
State(s) of Operation: Georgia
State(s) with RPS Programs: None
Regulatory Environment:
Disclaimer:

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Ref. No.	Refer to the 'EEI Definitions' tab for more information on each metric	Baseline				Future Year	Comments, Links, Additional Information and Notes
		2005	2019	2020	2021	2025	
Portfolio							
1.i	Owned Summer Generation Capacity at end of year (MW)	5,271	7,060	7,125	7,627	7,761	Wholly-owned and co-owned (% ownership) Summer Planning Reserve Capacity (10-K filings). Capacity decreases in 2025 due to retirement of Plant Wansley in 2022. Capacity increased in 2021 due to acquisition of Effingham combined cycle facility. Capacity increases in 2025 following completion of Vogtle Units 3 and 4. Four simple-cycle units are dual fuel and are included in the Natural Gas capacity. Pumped storage hydroelectric energy facility. Related Companies are Smarr EMC and Green Power EMC. Green Power EMC. Excludes member direct power purchases from other renewable providers.
1.1.i	Coal	1,556	1,553	1,553	1,553	1,030	
1.2.i	Natural Gas	1,792	3,474	3,539	4,041	4,080	
1.3.i	Nuclear	1,216	1,216	1,216	1,216	1,834	
1.4.i	Petroleum	0	0	0	0	0	
1.5.i	Total Renewable Energy Resources	707	817	817	817	817	
1.5.1.i	Biomass	0	0	0	0	0	
1.5.2.i	Landfill	0	0	0	0	0	
1.5.3.i	Hydroelectric	707	817	817	817	817	
1.5.4.i	Solar	0	0	0	0	0	
1.5.5.i	Wind	0	0	0	0	0	
1.6.i	Other	0	0	0	0	0	
1.ii	Related Company Summer Generation Capacity at end of year (MW)	722	891	1,058	1,058	1,321	
1.1.ii	Coal	0	0	0	0	0	
1.2.ii	Natural Gas	717	731	738	733	733	
1.3.ii	Nuclear	0	0	0	0	0	
1.4.ii	Petroleum	0	0	0	0	0	
1.5.ii	Total Renewable Energy Resources	5	160	320	408	836	
1.5.1.ii	Biomass	0	16	16	16	16	
1.5.2.ii	Landfill	3	14	14	14	14	
1.5.3.ii	Hydroelectric	2	2	2	2	2	
1.5.4.ii	Solar	0	127	287	376	804	
1.5.5.ii	Wind	0	0	0	0	0	
1.6.ii	Other	0	0	0	0	0	



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		2005	2019	2020	2021	2025	
2	Owned + Related Company Net Generation for the data year (MWh)	21,622,936	25,135,698	24,067,011	27,873,259	32,124,963	Sum of owned and related company generation.
2.1	Coal	10,984,264	2,592,023	1,137,027	2,559,235	1,165,200	
2.2	Natural Gas	1,161,163	12,078,932	12,521,842	14,269,230	13,934,641	
2.3	Nuclear	9,460,303	10,061,609	9,832,564	10,171,948	14,877,337	
2.4	Petroleum	0	0	0	0	0	
2.5	Total Renewable Energy Resources	17,206	403,135	575,579	872,846	2,147,785	
2.5.1	Biomass	0	117,783	120,419	116,694	110,708	
2.5.2	Landfill	16,624	90,920	91,095	79,010	86,589	
2.5.3	Hydroelectric	582	7,214	9,390	7,931	6,449	
2.5.4	Solar	0	187,218	354,675	669,211	1,944,039	
2.5.5	Wind	0	0	0	0	0	
2.6	Other	0	0	0	0	0	
2.i	Owned Net Generation for the data year (MWh)	21,539,058	23,866,088	22,829,300	26,480,014	29,728,459	Wholly-owned and co-owned generation.
2.1.i	Coal	10,984,264	2,592,023	1,137,027	2,559,235	1,165,200	
2.2.i	Natural Gas	1,094,491	11,212,456	11,859,709	13,748,831	13,685,922	Includes Effingham facility post-acquisition (July 2021).
2.3.i	Nuclear	9,460,303	10,061,609	9,832,564	10,171,948	14,877,337	
2.4.i	Petroleum	0	0	0	0	0	Four simple-cycle units are dual fuel and are included in the Natural Gas generation.
2.5.i	Total Renewable Energy Resources	0	0	0	0	0	
2.5.1.i	Biomass	0	0	0	0	0	
2.5.2.i	Landfill	0	0	0	0	0	
2.5.3.i	Hydroelectric	0	0	0	0	0	Pumped storage energy is excluded, consistent with 10-K filings.
2.5.4.i	Solar	0	0	0	0	0	
2.5.5.i	Wind	0	0	0	0	0	
2.6.i	Other	0	0	0	0	0	
2.ii	Related Company Net Generation for the data year (MWh)	83,878	1,269,611	1,237,712	1,393,245	2,396,504	Related Companies are Smarr EMC and Green Power EMC.
2.1.ii	Coal	0	0	0	0	0	
2.2.ii	Natural Gas	66,672	866,476	662,133	520,399	248,719	Smarr EMC.
2.3.ii	Nuclear	0	0	0	0	0	
2.4.ii	Petroleum	0	0	0	0	0	
2.5.ii	Total Renewable Energy Resources	17,206	403,135	575,579	872,846	2,147,785	Green Power EMC. Excludes member direct power purchases from other renewable providers.
2.5.1.ii	Biomass	0	117,783	120,419	116,694	110,708	
2.5.2.ii	Landfill	16,624	90,920	91,095	79,010	86,589	
2.5.3.ii	Hydroelectric	582	7,214	9,390	7,931	6,449	
2.5.4.ii	Solar	0	187,218	354,675	669,211	1,944,039	
2.5.5.ii	Wind	0	0	0	0	0	
2.6.ii	Other	0	0	0	0	0	



Electric Company ESG/Sustainability Quantitative Information

Parent Company:
Operating Company(s):
Business Type(s):
State(s) of Operation:
State(s) with RPS Programs:
Regulatory Environment:
Disclaimer:

Oglethorpe Power Corporation (OPC)
 Oglethorpe Power Corporation (OPC)
 Generation Cooperative
 Georgia
 None

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		2005	2019	2020	2021	2025	
3	Capital Expenditures and Energy Efficiency (EE)						
3.1	Total Annual Capital Expenditures (millions, nominal dollars)	\$ 74	1,301	1,308	\$ 1,529	\$ 273	Expenditures exclude related companies (Smarr EMC and Green Power EMC). OPC is a generation cooperative and has no retail customers or EE Measures. OPC is a generation cooperative and has no retail customers or EE Programs.
3.2	Incremental Annual Electricity Savings from EE Measures (MWh)	na	na	na	na	na	
3.3	Incremental Annual Investment in Electric EE Programs (nominal dollars)	na	na	na	na	na	
4	Retail Electric Customer Count (at end of year)	na	na	na	na	na	OPC is a generation cooperative and has no retail customers.
4.1	Commercial						
4.2	Industrial						
4.3	Residential						



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		2005	2019	2020	2021	2025	
Emissions							
5	GHG Emissions: Carbon Dioxide (CO2) and Carbon Dioxide Equivalent (CO2e)						
5.1	Owned Generation (1) (2) (3)						Wholly-owned and co-owned facilities. Includes Effingham facility post-acquisition.
5.1.1	Carbon Dioxide (CO2)						
5.1.1.1	Total Owned Generation CO2 Emissions (MT)	10,414,667	7,395,390	6,138,972	8,143,968	6,686,133	
5.1.1.2	Total Owned Generation CO2 Emissions Intensity (MT/Net MWh)	0.484	0.310	0.269	0.308	0.225	
5.1.2	Carbon Dioxide Equivalent (CO2e)						
5.1.2.1	Total Owned Generation CO2e Emissions (MT)	10,495,206	7,421,011	6,153,098	8,169,503	na	
5.1.2.2	Total Owned Generation CO2e Emissions Intensity (MT/Net MWh)	0.487	0.311	0.270	0.309	na	
5.2	Related Companies (4)						Related Companies are Smarr EMC and Green Power EMC. (Excludes emissions from Green Power EMC renewables with capacity <25 MW.)
5.2.1	Carbon Dioxide (CO2)						
5.2.1.1	Total Affiliate CO2 Emissions (MT)	42,376	560,199	439,015	334,526	150,961	
5.2.1.2	Total Affiliate Generation CO2 Emissions Intensity (MT/Net MWh)	0.505	0.441	0.355	0.240	0.063	
5.2.2	Carbon Dioxide Equivalent (CO2e)						
5.2.2.1	Total Affiliate Generation CO2e Emissions (MT)	42,419	560,768	439,461	334,866	na	
5.2.2.2	Total Affiliate Generation CO2e Emissions Intensity (MT/Net MWh)	0.506	0.442	0.355	0.240	na	
5.3	Owned Generation + Related Companies Generation						
5.3.1	Carbon Dioxide (CO2)						
5.3.1.1	Total Owned + Affiliate Generation CO2 Emissions (MT)	10,457,044	7,955,589	6,577,987	8,478,495	6,837,094	
5.3.1.2	Total Owned + Affiliate Generation CO2 Emissions Intensity (MT/Net MWh)	0.484	0.317	0.273	0.304	0.213	
5.3.2	Carbon Dioxide Equivalent (CO2e)						
5.3.2.1	Total Owned + Affiliate Generation CO2e Emissions (MT)	10,537,626	7,981,779	6,592,559	8,504,369	na	
5.3.2.2	Total Owned + Affiliate Generation CO2e Emissions Intensity (MT/Net MWh)	0.487	0.318	0.274	0.305	na	
5.4	Non-Generation CO2e Emissions of Sulfur Hexafluoride (SF6) (5)	na	na	na	na	na	Reporting is not required for OPC and related companies.
5.4.1	Total CO2e emissions of SF6 (lbs)						
5.4.2	Leak rate of CO2e emissions of SF6 (lbs/Net MWh)						



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		2005	2019	2020	2021	2025		
6	Nitrogen Oxide (NOx), Sulfur Dioxide (SO2), Mercury (Hg)							
6.1	Generation basis for calculation (6)	Total						Includes all owned and related company generation and emissions. (Excludes emissions from Green Power EMC with capacity < 25 MW.)
6.2	Nitrogen Oxide (NOx)							
6.2.1	Total NOx Emissions (MT)	8,688	2,553	1,545	1,909	1,471		
6.2.2	Total NOx Emissions Intensity (MT/Net MWh)	0.000402	0.000102	0.000064	0.000069	0.000046		
6.3	Sulfur Dioxide (SO2)							
6.3.1	Total SO2 Emissions (MT)	47,159	410	122	569	133		
6.3.2	Total SO2 Emissions Intensity (MT/Net MWh)	0.002181	0.000016	0.000005	0.000020	0.000004		
6.4	Mercury (Hg)							
6.4.1	Total Hg Emissions (kg)	270.6	6.3	1.9	5.1	2.0		
6.4.2	Total Hg Emissions Intensity (kg/Net MWh)	0.0000126	0.0000003	0.0000001	0.0000002	0.0000001		

Notes

- (1) Generation and emissions are adjusted for equity ownership share to reflect the percentage of output owned by reporting entity.
- (2) CO2 and CO2e emissions intensity should be reported using total system generation (net MWh) based on EEI GHG worksheet.
- (3) As reported to EPA under the mandatory GHG Reporting Protocols (40 CFR Part 98, Subparts C and D).
- (4) Purchased power emissions should be calculated using the most relevant and accurate of the following methods:
 - For direct purchases, such as PPAs, use the direct emissions data as reported to EPA.
 - For market purchases where emissions are unknown, use applicable regional or national emissions rate:
 - ISO/RTO-level emission factors
 - Climate Registry emission factors
 - E-Grid emission factors
- (5) As reported to EPA under the mandatory GHG Reporting Protocols (40 CFR Part 98, Subpart DD).
- (6) 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)



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		2005				2025	
Resources							
7	Human Resources						OPC employees, including support to related companies.
7.1	Total Number of Employees	na	303	301	320		
7.2	Percentage of Women in Total Workforce	na	28%	29%	26%		
7.3	Percentage of Minorities in Total Workforce	na	18%	18%	19%		
7.4	Total Number on Board of Directors/Trustees	na	12	12	12		
7.5	Percentage of Women on Board of Directors/Trustees	na	0%	0%	0%		
7.6	Percentage of Minorities on Board of Directors/Trustees	na	0%	0%	0%		
7.6.1	Total Number of Executive/Senior Level Officials and Managers	5	7	7	7		
7.6.2	Percentage of Women on Executive/Senior Level Officials and Managers	40%	57%	57%	57%		
7.6.3	Percentage of Minorities on Executive/Senior Level Officials and Managers	na	14%	14%	14%		
7.6.4	Percentage of Military Workforce	na	18%	20%	21%		
7.7	Employee Safety Metrics						
7.7.1	Recordable Incident Rate	1.2	0.3	0.7	0.0		
7.7.2	Lost-time Case Rate	0.0	0.0	0.7	0.0		
7.7.3	Days Away, Restricted, and Transfer (DART) Rate	0.0	0.0	0.7	0.0		
7.7.4	Work-related Fatalities	0.0	0.0	0.0	0.0		
8	Owned Fresh Water Resources used in Thermal Power Generation Activities						Wholly-owned and co-owned thermal power generation facilities.
8.1	Water Withdrawals - Consumptive (Millions of Gallons)	na	13,734	10,283	10,527	na	Co-owned facilities based on OPC's % ownership. Grey water excluded.
8.2	Water Withdrawals - Non-Consumptive (Millions of Gallons)	na	8,141	8,377	7,914	na	Co-owned facilities based on OPC's % ownership. Grey water excluded.
8.3	Water Withdrawals - Consumptive Rate (Millions of Gallons/Net MWh)	na	0.000616	0.000480	0.000414	na	
8.4	Water Withdrawals - Non-Consumptive Rate (Millions of Gallons/Net MWh)	na	0.000365	0.000391	0.000311	na	
9.i	Owned Waste Products						Wholly-owned and co-owned facilities.
9.1.i	Amount of Hazardous Waste Manifested for Disposal (MT)	na	10.05	0.12	0.98		Excludes co-owned coal and nuclear facilities due to incomplete data. In 2019, an unused mercaptan tank was removed from a facility, which generated an atypical amount of hazardous waste.
9.2.i	Percent of Coal Combustion Products Beneficially Used	na	70%	89%	64%		
9.ii	Owned + Smarr EMC Waste Products						Owned and Smarr EMC facilities.
9.1.ii	Amount of Hazardous Waste Manifested for Disposal (MT)	na	10.28	0.12	1.02		Excludes co-owned coal and nuclear facilities due to incomplete data. In 2019, an unused mercaptan tank was removed from a facility, which generated an atypical amount of hazardous waste.
9.2.ii	Percent of Coal Combustion Products Beneficially Used	na	70%	89%	64%		