

# Oglethorpe Power Corporation EEI 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 in a consistent format across the electric utility sector on our portfolio, as well as related, “sister” affiliated generation cooperatives (Smarr EMC and Green Power EMC) that we support and that also supply our members. We intend to publish this information on an annual basis.

Oglethorpe Power Corporation and the 38 member distribution cooperatives we serve have been working toward a cleaner energy path for many years. We are committed to making strides toward improving the environment through reducing greenhouse gas emissions, including carbon dioxide, so future generations can continue to thrive. We believe as technology evolves, we’ll be in a position to transition our energy generation fleet to meet reasonable carbon reduction goals while providing cost-effective, reliable and resilient power to our consumers.

Oglethorpe Power is just one of the power suppliers to our member owners, providing about 7,600 megawatts of the capacity needed for our collective ~10,000-megawatt system. We supply about 60% of their energy requirements with our diverse portfolio of nuclear, gas, coal, and hydro resources. Green Power EMC, a related company for which Oglethorpe provides management and other services, was formed by our same members many years ago to spotlight their focus on renewable energy. Our members purchase renewable energy from Green Power EMC, as well as directly from solar providers. Today, our members’ solar energy portfolio represents approximately 600 megawatts which is expected to grow to over 1,300 megawatts by the end of 2022.

Oglethorpe Power is a 30% owner of two new nuclear units under construction at Plant Vogtle; our share is ~660 megawatts. When complete and combined with our existing nuclear output, nuclear energy will represent about half of Oglethorpe Power’s energy mix. This investment will help drive the projected carbon emission rate down by more than 55% in 2024, compared to 2005, for Oglethorpe Power and its related companies, Green Power EMC

and Smarr EMC (that owns two, simple-cycle gas plants, which Oglethorpe manages and operates). We also anticipate Plant Wansley, a jointly owned coal plant in Georgia of which Oglethorpe has a 30% ownership share representing ~500 megawatts, will be retired in the fall of 2022. In 2005, coal generation represented more than half of Oglethorpe’s energy mix, and we anticipate it will be below 5% in 2024. These are tangible examples of how we are transitioning our fleet to more environmentally friendly generation for the years to come.

Our unique not-for-profit cooperative governance model embodies democratic principles of governance where the consumers we serve have a representative voice in decisions. Ultimately, it is our customers, representing approximately 4.3 million people, including many impoverished communities, who establish our Board of Directors to represent them. Oglethorpe Power’s mission is to be good stewards of our members’ investments in energy assets by providing environmentally responsible, safe, reliable and affordable electricity. We are committed to working collaboratively with our members and the Board of Directors through our perpetual strategic planning process and effective enterprise-wide risk management program to seek and cultivate innovative energy solutions in the rapidly evolving energy landscape.

This report provides quantitative sustainability metrics for voluntary use on the following tables that are consistent with the sustainability reporting template developed by the Edison Electric Institute.

Further information on our ESG-related efforts can be found at the Oglethorpe Power Corporation website ([opc.com/investor-relations](http://opc.com/investor-relations)). Please refer to our 2021 Environmental, Social, and Corporate Governance Report for comprehensive information about our ESG strategy.

# Additional Resources

- EEI ESG/SUSTAINABILITY REPORT
  - EEI ESG/SUSTAINABILITY QUANTITATIVE INFORMATION
- CODE OF CONDUCT
- SAFETY POLICY
- INVESTOR RELATIONS PRESENTATIONS
- SEC FILINGS
- GREEN POWER EMC

## Disclaimer

Data included herein is based on information available as of September 1, 2021, and is subject to change without notice should new or additional information be obtained. This material also contains forward-looking statements. Although we believe that in making these forward-looking statements our expectations are based on reasonable assumptions, any forward-looking statement involves uncertainties and there are important factors that could cause actual results to differ materially from those expressed or implied by these forward-looking statements. Actual results may vary materially. Forward-looking statements speak only as of the date they are made, and we undertake no obligation to update any forward-looking statement to reflect events or circumstances after the date on which it is made or to reflect the occurrence of unanticipated events.



# Electric Company ESG/Sustainability Quantitative Information



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

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

Data included herein is based on information available as of Sept. 1, 2021, and is subject to change without notice should new or additional information be obtained. This material contains forward-looking statements (e.g., "Future Year"). Although we believe that in making these forward-looking statements our expectations are based on reasonable assumptions, any forward-looking statement involves uncertainties and there are important factors that could cause actual results to differ materially from those expressed or implied by these forward-looking statements. Such forward-looking statements include projections related to emissions reductions, changes in our generation portfolio, planned retirements, and planned capital investments and are identified in this document by the words "Future Year" and similar expressions. Actual results may vary materially. Forward-looking statements speak only as of the date they are made, and we undertake no obligation to update any forward-looking statement to reflect events or circumstances after the date on which it is made or to reflect the occurrence of unanticipated events.

Report Date: 9/1/21

Ref. No.	Refer to the 'EEI Definitions' tab for more information on each metric	Baseline	2018	2019	2020	Future Year	Comments, Links, Additional Information and Notes
		2005				2024	
<b>Portfolio</b>							
<b>1.i</b>	<b>Owned Summer Generation Capacity at end of year (MW)</b>	<b>5,271</b>	<b>7,115</b>	<b>7,060</b>	<b>7,125</b>	<b>7,756</b>	
1.1.i	Coal	1,556	1,553	1,553	1,553	1,030	Wholly-owned and co-owned (% ownership) Summer Planning Reserve Capacity (10-K filings). Capacity decrease anticipated in 2022 due to retirement of Plant Wansley.
1.2.i	Natural Gas	1,792	3,529	3,474	3,539	4,039	Capacity increased in 2021 due to acquisition of 500-MW Effingham combined cycle facility.
1.3.i	Nuclear	1,216	1,216	1,216	1,216	1,870	Capacity increase planned by 2024 following completion of Vogtle Units 3 and 4.
1.4.i	Petroleum	0	0	0	0	0	Four simple-cycle units are dual fuel and are included in the Natural Gas capacity.
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	Pumped storage hydroelectric energy facility.
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	
<b>1.ii</b>	<b>Related Company Summer Generation Capacity at end of year (MW)</b>	<b>722</b>	<b>847</b>	<b>891</b>	<b>1,058</b>	<b>1,321</b>	Related Companies are Smarr EMC and Green Power EMC.
1.1.ii	Coal	0	0	0	0	0	
1.2.ii	Natural Gas	717	728	731	738	737	Smarr EMC.
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	119	160	320	584	Green Power EMC. Excludes member direct power purchases from other renewable providers.
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	86	127	287	552	
1.5.5.ii	Wind	0	0	0	0	0	
1.6.ii	Other	0	0	0	0	0	
<b>2</b>	<b>Owned + Related Company Net Generation for the data year (MWh)</b>	<b>21,622,936</b>	<b>24,852,491</b>	<b>25,135,698</b>	<b>24,067,011</b>	<b>31,815,574</b>	Sum of owned and related company generation.
2.1	Coal	10,984,264	4,062,982	2,592,023	1,137,027	720,193	
2.2	Natural Gas	1,161,163	10,099,070	12,078,932	12,521,842	14,388,974	
2.3	Nuclear	9,460,303	10,314,927	10,061,609	9,832,564	15,182,477	
2.4	Petroleum	0	0	0	0	0	
2.5	Total Renewable Energy Resources	17,206	375,512	403,135	575,579	1,523,930	
2.5.1	Biomass	0	96,874	117,783	120,419	119,697	
2.5.2	Landfill	16,624	88,306	90,920	91,095	90,624	
2.5.3	Hydroelectric	582	7,396	7,214	9,390	6,031	
2.5.4	Solar	0	182,935	187,218	354,675	1,307,578	
2.5.5	Wind	0	0	0	0	0	
2.6	Other	0	0	0	0	0	
<b>2.i</b>	<b>Owned Net Generation for the data year (MWh)</b>	<b>21,539,058</b>	<b>23,696,945</b>	<b>23,866,088</b>	<b>22,829,300</b>	<b>29,982,706</b>	Wholly-owned and co-owned generation.
2.1.i	Coal	10,984,264	4,062,982	2,592,023	1,137,027	720,193	
2.2.i	Natural Gas	1,094,491	9,319,036	11,212,456	11,859,709	14,080,036	
2.3.i	Nuclear	9,460,303	10,314,927	10,061,609	9,832,564	15,182,477	
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	
<b>2.ii</b>	<b>Related Company Net Generation for the data year (MWh)</b>	<b>83,878</b>	<b>1,155,546</b>	<b>1,269,611</b>	<b>1,237,712</b>	<b>1,832,868</b>	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	780,034	866,476	662,133	308,938	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	375,512	403,135	575,579	1,523,930	Green Power EMC. Excludes member direct power purchases from other renewable providers.
2.5.1.ii	Biomass	0	96,874	117,783	120,419	119,697	
2.5.2.ii	Landfill	16,624	88,306	90,920	91,095	90,624	
2.5.3.ii	Hydroelectric	582	7,396	7,214	9,390	6,031	
2.5.4.ii	Solar	0	182,935	187,218	354,675	1,307,578	
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:** 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  
**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	2018	2019	2020	2024	
3	<b>Capital Expenditures and Energy Efficiency (EE)</b>						
3.1	Total Annual Capital Expenditures (millions, nominal dollars)	\$ 74	\$ 1,230	\$ 1,324	\$ 1,323	\$ 269	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	<b>Retail Electric Customer Count (at end of year)</b>	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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Ref. No.	Refer to the 'EEI Definitions' tab for more information on each metric	Baseline	2018			2019			2020			Future Year	Comments, Links, Additional Information and Notes
		2005	2018	2019	2020	2021	2022	2023	2024	2025			
<b>Emissions</b>													
5	<b>GHG Emissions: Carbon Dioxide (CO2) and Carbon Dioxide Equivalent (CO2e)</b>												
5.1	<b>Owned Generation (1) (2) (3)</b>												Wholly-owned and co-owned facilities.
5.1.1	Carbon Dioxide (CO2)												
5.1.1.1	Total Owned Generation CO2 Emissions (MT)	10,414,667	7,962,365	7,395,390	6,138,972	6,492,822							
5.1.1.2	Total Owned Generation CO2 Emissions Intensity (MT/Net MWh)	0.484	0.336	0.310	0.269	0.217							
5.1.2	Carbon Dioxide Equivalent (CO2e)												
5.1.2.1	Total Owned Generation CO2e Emissions (MT)	10,495,206	7,997,841	7,421,011	6,153,098	na							
5.1.2.2	Total Owned Generation CO2e Emissions Intensity (MT/Net MWh)	0.487	0.338	0.311	0.270	na							
5.2	<b>Related Companies (4)</b>												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 Generation CO2 Emissions (MT)	42,376	507,261	560,199	439,015	188,138							
5.2.1.2	Total Affiliate Generation CO2 Emissions Intensity (MT/Net MWh)	0.505	0.439	0.441	0.355	0.103							
5.2.2	Carbon Dioxide Equivalent (CO2e)												
5.2.2.1	Total Affiliate Generation CO2e Emissions (MT)	42,419	507,777	560,768	439,461	na							
5.2.2.2	Total Affiliate Generation CO2e Emissions Intensity (MT/Net MWh)	0.506	0.439	0.442	0.355	na							
5.3	<b>Owned Generation + Related Companies Generation</b>												
5.3.1	Carbon Dioxide (CO2)												
5.3.1.1	Total Owned + Affiliate Generation CO2 Emissions (MT)	10,457,044	8,469,626	7,955,589	6,577,987	6,680,961							
5.3.1.2	Total Owned + Affiliate Generation CO2 Emissions Intensity (MT/Net MWh)	0.484	0.341	0.317	0.273	0.210							
5.3.2	Carbon Dioxide Equivalent (CO2e)												
5.3.2.1	Total Owned + Affiliate Generation CO2e Emissions (MT)	10,537,626	8,505,617	7,981,779	6,592,559	na							
5.3.2.2	Total Owned + Affiliate Generation CO2e Emissions Intensity (MT/Net MWh)	0.487	0.342	0.318	0.274	na							
5.4	<b>Non-Generation CO2e Emissions of Sulfur Hexafluoride (SF6) (5)</b>												Reporting is not required for OPC and related companies.
5.4.1	Total CO2e emissions of SF6 (lbs)	na	na	na	na	na							
5.4.2	Leak rate of CO2e emissions of SF6 (lbs/Net MWh)												
6	<b>Nitrogen Oxide (NOx), Sulfur Dioxide (SO2), Mercury (Hg)</b>												
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	<b>Nitrogen Oxide (NOx)</b>												
6.2.1	Total NOx Emissions (MT)	8,688	3,365	2,553	1,545	958							
6.2.2	Total NOx Emissions Intensity (MT/Net MWh)	0.000402	0.000135	0.000102	0.000064	0.000030							
6.3	<b>Sulfur Dioxide (SO2)</b>												
6.3.1	Total SO2 Emissions (MT)	47,159	531	410	122	104							
6.3.2	Total SO2 Emissions Intensity (MT/Net MWh)	0.002181	0.000021	0.000016	0.000005	0.000003							
6.4	<b>Mercury (Hg)</b>												
6.4.1	Total Hg Emissions (kg)	270.6	8.6	6.3	1.9	1.5							
6.4.2	Total Hg Emissions Intensity (kg/Net MWh)	0.0000126	0.0000003	0.0000003	0.0000001	0.0000000							

**Notes**

- Generation and emissions are adjusted for equity ownership share to reflect the percentage of output owned by reporting entity.
- CO2 and CO2e emissions intensity should be reported using total system generation (net MWh) based on EEI GHG worksheet.
- As reported to EPA under the mandatory GHG Reporting Protocols (40 CFR Part 98, Subparts C and D).
- 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
- As reported to EPA under the mandatory GHG Reporting Protocols (40 CFR Part 98, Subpart DD).
- 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				2024	
<b>Resources</b>							
<b>7</b>	<b>Human Resources</b>						
7.1	Total Number of Employees	na	282	303	301		OPC employees, including support to related companies.
7.2	Percentage of Women in Total Workforce	na	29%	28%	29%		
7.3	Percentage of Minorities in Total Workforce	na	17%	18%	18%		
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	15%	18%	20%		
7.7	Employee Safety Metrics						
7.7.1	Recordable Incident Rate	1.2	0.4	0.3	0.7		
7.7.2	Lost-time Case Rate	0.0	0.0	0.0	0.7		
7.7.3	Days Away, Restricted, and Transfer (DART) Rate	0.0	0.0	0.0	0.7		
7.7.4	Work-related Fatalities	0.0	0.0	0.0	0.0		
<b>8</b>	<b>Owned Fresh Water Resources used in Thermal Power Generation Activities</b>						Wholly-owned and co-owned thermal power generation facilities. Co-owned facilities based on OPC's % ownership. Grey water excluded. Co-owned facilities based on OPC's % ownership. Grey water excluded.
8.1	Water Withdrawals - Consumptive (Millions of Gallons)	na	12,638	13,734	10,283	na	
8.2	Water Withdrawals - Non-Consumptive (Millions of Gallons)	na	8,647	8,141	8,377	na	
8.3	Water Withdrawals - Consumptive Rate (Millions of Gallons/Net MWh)	na	0.000564	0.000616	0.000480	na	
8.4	Water Withdrawals - Non-Consumptive Rate (Millions of Gallons/Net MWh)	na	0.000386	0.000365	0.000391	na	
<b>9.i</b>	<b>Owned Waste Products</b>						Wholly-owned and co-owned facilities. 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.
9.1.i	Amount of Hazardous Waste Manifested for Disposal (MT)	na	1.23	10.05	0.12		
9.2.i	Percent of Coal Combustion Products Beneficially Used	na	57%	70%	89%		
<b>9.ii</b>	<b>Owned + Smarr EMC Waste Products</b>						Owned and Smarr EMC facilities. 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.
9.1.ii	Amount of Hazardous Waste Manifested for Disposal (MT)	na	1.25	10.28	0.12		
9.2.ii	Percent of Coal Combustion Products Beneficially Used	na	57%	70%	89%		

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