



About Us

Clean Energy

Sustainable Communities

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## Metrics

In our 2019 and 2020 Sustainability and Corporate Responsibility Reports, following the merger with SCANA Corporation on January 1, 2019, we disclosed separate metrics for Dominion Energy South Carolina. In this report, and moving forward, we return to reporting consolidated metrics, representing our entire company's operations. Data is provided as of 6-30-2022. Identified updates in purchased power emissions in July 2022 have been determined immaterial.

### Environmental

#### Capacity

YEAR	2005 Baseline	2019	2020	2021
<b>Owned Nameplate Generation Capacity at end of year (MW)</b>	<b>23,146</b>	<b>34,382</b>	<b>33,972</b>	<b>30,479</b>
Coal	8,071	5,388	5,046	5,022
Natural Gas	5,068	10,926	10,906	10,883
Nuclear	6,370	5,999	5,999	5,991
Petroleum	2,333	2,143	1,373	1,373
Total Renewable Energy Resources	652	4,963	5,324	3,605
Biomass/Biogas	80	153	153	153
Geothermal	-	-	-	-
Hydroelectric <sup>1</sup>	572	524	524	524
Solar	-	1,752	2,113	2,916
Wind	-	150	150	12
Other	-	-	-	-
Energy Storage	2,384	2,384	2,384	2,384

## Generation Production

YEAR	2005 Baseline	2019	2020	2021
<b>Net Generation for the data year (MWh)</b>	<b>112,461,805</b>	<b>118,078,453</b>	<b>121,219,126</b>	<b>116,829,289</b>
Coal	52,781,866	13,659,118	12,203,730	13,430,480
Natural Gas	4,198,658	49,357,309	54,109,684	47,290,420
Nuclear	49,143,692	49,316,348	48,573,338	47,997,083
Petroleum	4,657,260	123,323	119,354	178,976
Total Renewable Energy Resources	1,680,329	5,622,355	6,213,020	7,932,330
Biomass/Biogas	694,843	1,007,679	787,986	1,054,927
Geothermal	-	-	-	-
Hydroelectric <sup>1</sup>	985,486	978,916	1,220,060	944,967
Solar	-	3,037,885	3,899,725	5,882,665
Wind	-	597,876	305,249	49,771
Other	-	-	-	-

## Owned Generation Carbon Emissions (following GHG protocols)

YEAR	2005 Baseline	2019	2020	2021
<b>Owned Generation</b>				
<b>Total Generation (net MWh) (by ownership)</b>	<b>112,461,805</b>	<b>118,059,108</b>	<b>121,219,126</b>	<b>116,829,289</b>
Carbon Dioxide (CO <sub>2</sub> )				
Total CO <sub>2</sub> emissions (MT) (by ownership)	57,441,116	31,749,794	32,911,391	31,298,933
CO <sub>2</sub> intensity rate (MT/net MWh) (by ownership)	0.511	0.269	0.272	0.268
Carbon Dioxide Equivalent (CO <sub>2</sub> e) <sup>4</sup>				
Total CO <sub>2</sub> e emissions (MT) (by ownership)	59,348,460	31,796,845	32,957,387	31,660,079
CO <sub>2</sub> e intensity rate (MT/net MWh) (by ownership)	0.528	0.269	0.272	0.271

## Purchased Power Carbon Emissions

YEAR	2005 Baseline	2019	2020	2021
<b>PURCHASED POWER</b>				
<b>Total Purchased Generation (gross MWh)</b>	<b>20,868,925</b>	<b>17,312,430</b>	<b>12,001,527</b>	<b>21,074,593</b>
Carbon Dioxide (CO <sub>2</sub> )				
Total Purchased Generation CO <sub>2</sub> Emissions (MT)	17,840,409	8,244,067	4,567,006	8,302,444
Total Purchased Generation CO <sub>2</sub> Emissions Intensity (MT/Gross MWh)	0.855	0.476	0.381	0.394
Carbon Dioxide Equivalent (CO <sub>2</sub> e)				
Total Purchased Generation CO <sub>2</sub> e Emissions (MT)	17,876,090	8,260,555	4,576,140	8,343,956
Total Purchased Generation CO <sub>2</sub> e Emissions Intensity (MT/Gross MWh)	0.857	0.477	0.381	0.396

## Owned Generation + Purchased Power Carbon Emissions (following GHG protocol)

YEAR	2005 Baseline	2019	2020	2021
<b>OWNED + PURCHASED</b>				
<b>Total Owned (net MWh) + Purchased Generation (Gross MWh)</b>	<b>133,330,730</b>	<b>135,371,538</b>	<b>133,220,653</b>	<b>137,903,882</b>
Carbon Dioxide (CO <sub>2</sub> )				
Total Owned + Purchased Generation CO <sub>2</sub> Emissions (MT) <sup>9</sup>	75,281,525	39,993,860	37,478,396	39,601,376
Total CO <sub>2</sub> Emissions Intensity, MT CO <sub>2</sub> (Owned + Purchased) / Total MWh (Net Owned + Gross Purchased)	0.565	0.295	0.281	0.287
Carbon Dioxide Equivalent (CO <sub>2</sub> e)				
Total Owned + Purchased Generation CO <sub>2</sub> e Emissions (MT)	77,224,550	40,057,400	37,533,527	40,004,035
Total CO <sub>2</sub> e Emissions Intensity, MT CO <sub>2</sub> e (Owned + Purchased) / Total MWh (Net Owned + Gross Purchased)	0.579	0.296	0.282	0.290

## Non-Generation CO2e Emissions

YEAR	2005 Baseline	2019	2020	2021
<b>OWNED GENERATION OTHER AIR EMISSIONS</b>				
Fugitive CO2e emissions of sulfur hexafluoride (MT) <sup>2</sup>	NA	48,603	34,720	41,242
Leak rate of fugitive CO2e emissions of SF6 (MT/capacity) <sup>2</sup>	NA	0.006	0.005	0.005

## Nitrogen Oxide (NOx), Sulfur Dioxide (SO2), Mercury (Hg)

YEAR	2005 Baseline	2019	2020	2021
<b>OWNED GENERATION NITROGEN OXIDE (NOx), SULFUR DIOXIDE (SO2), MERCURY (Hg)</b>				
<b>Generation basis for calculation</b>	<b>112,461,805</b>	<b>118,059,108</b>	<b>121,219,126</b>	<b>116,829,289</b>
Nitrogen Oxide (NOx)				
Total NOx Emissions (MT)	89,432	11,318	9,942	10,509
Total NOx Emissions Intensity (MT/Net MWh)	0.001	9.59E-05	8.20E-05	9.00E-05
Sulfur Dioxide (SO2)				
Total SO2 Emissions (MT)	258,864	4,650	3,862	4,868
Total SO2 Emissions Intensity (MT/Net MWh)	0.002	3.94E-05	3.19E-05	4.17E-05
Mercury (Hg)				
Total HG Emissions (kg)	792	39	25	37
Total Hg Emissions Intensity (kg/Net MWh)	7.04E-06	3.32E-07	2.09E-07	3.17E-07

### AIR EMISSIONS FOOTNOTES

<sup>1</sup>Starting for reporting year 2021 and forward, we have aligned with the CDP methodology for hydroelectric, which does not include pumped storage. We have updated prior year values and the 2005 baseline following the CDP protocol.

<sup>2</sup>The value for Fugitive CO2e emissions of sulfur hexafluoride (SF6) has been updated from the value reported in 2020, following a GHGRP resubmittal to the EPA. CO2e emissions for DESC Power Delivery increased due to an increase in SF6 reserves as well as added to energized equipment in 2021 compared to 2020. This increased disposition of stored and energized SF6 equates to an increase of CO2e emissions.

<sup>3</sup>Value for 2019 had a typographical error in the 2020 SCR Report, and has been corrected here.

<sup>4</sup>CO2e data for 2005 and 2021 is inclusive of CO2, CH4, and NOx. 2019-2020 data only includes CO2 and CH4.

## Water

YEAR	2019	2020	2021
Water reused/recycled (million liters)	8,944,750	9,550,543	6,697,949
Water reused/recycled (million liters/net MWH)	0.076	0.079	0.057
Fresh water withdrawn (billion liters)	8,622	8,461	8,422
Fresh water consumed (billion liters)	25.3	42.3	42.11
Water withdrawals - consumptive (billion liters/net MWH)	0.00000021	0.00000035	0.00000036
Water withdrawals - non-consumptive (billion liters/net MWH) <sup>5</sup>	0.000073	0.00007	0.000072

## Waste & Recycling

YEAR	2019	2020	2021
Coal ash produced (million tons) <sup>6</sup>	1.29	1.11	1.07
Coal ash reused/recycled (million tons) <sup>6</sup>	0.28	0.31	0.34
Coal combustion byproducts produced (million tons) <sup>6</sup>	1.62	1.49	1.53
Coal combustion byproducts reused/recycled (million tons) <sup>6,7</sup>	0.67	0.62	0.63
Percent of coal combustion byproducts reused / recycled	41%	42%	41%
Gypsum reused/recycled (tons)	387,687	307,682	297,133
Biomass combustion products reused/recycled (tons)	13,066	14,638	22,176
Oils, fluids for reclamation/recovery (tons)	1,987	1,953	1,884
Scrap metals reused/recycled (tons)	20,342	17,997	83,956
Paper, cardboard, plastic, glass reused/recycled (tons)	5,157	83.72	332
E-waste reused/recycled (tons)	46.31	62.99	106
Organics/compost reused/recycled (tons)	34.39	47.24	42.65
Hazardous waste produced (million lbs)	11.1	5.09	0.57

## Other

YEAR	2019	2020	2021
Notices of violation (NOVs) <sup>8</sup>	20	13	12
Environmental penalties paid <sup>9</sup>	\$178,200	\$1,477,737	\$110,276

### WATER, WASTE, OTHER FOOTNOTES

<sup>5</sup> 2000 baseline = 0.000136 billion liters/net MWH

<sup>6</sup> In 2022, Dominion Energy refined our coal ash and coal combustion byproduct (CCB) calculation methodologies, which have also been applied to prior-year reported values.

<sup>7</sup> The amount of CCB material recycled includes material from newly generated CCB, reuse of deposited material, and material from storage unit closures.

<sup>8</sup> BHE Phase 1 excluded from NOVs as of 11/1/2020.

<sup>9</sup> \$1,400,000 of the total penalties paid in 2020 was the EPA Consent Decree for legacy events from 2013-2018.

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