

2022 Environmental Metrics

This report primarily focuses on performance in calendar-year 2022. All environmental and other related metrics are inclusive of assets owned in 2022, except Hope Gas, Inc., which was sold in August 2022*. Some content referenced in this disclosure may include forward-looking information. For a full discussion of forward-looking information, see our Forward-Looking Statements. Dominion Energy expects future reporting will be adjusted to reflect the outcome(s) of the company-wide business review announced in November 2022.

* Please see our [2022 Summary Annual Report](#) and Form 10-K for a description of assets owned in 2022 as well as a description of the sale of Hope Gas, Inc.

CAPACITY				
YEAR	2005 Baseline ¹	2020 ²	2021	2022
Owned Nameplate Generation Capacity at end of year (MW)	22,494	26,264	26,874	26,755
Coal	8,071	5,046	5,022	5,360
Natural Gas	5,068	10,906	10,883	10,944
Nuclear	6,370	5,999	5,991	5,999
Petroleum	2,333	1,373	1,373	1,373
Total Renewable Energy Resources	652	2,940	3,605	3,079
Biomass/Biogas	80	153	153	153
Geothermal	0	0	0	0
Hydroelectric	572	524	524	524
Solar	0	2,113	2,916	2,390
Wind	0	150	12	12
Other	0	0	0	0
Energy Storage	2,384	2,384	2,384	2,384

¹ 2005 Baseline Capacity values corrected on 1/22/24.

² 2020 Capacity values corrected on 1/22/24.

GENERATION PRODUCTION				
YEAR	2005 Baseline ³	2020	2021	2022
Net Generation for the data year (MWh)	112,461,805	121,219,126	116,829,289	112,573,276
Coal	52,781,866	12,203,730	13,430,480	11,918,223
Natural Gas	4,198,658	54,109,684	47,290,420	46,211,600
Nuclear	49,143,692	48,573,338	47,997,083	48,143,722
Petroleum	4,657,260	119,354	178,976	301,581
Total Renewable Energy Resources	1,680,329	6,213,020	7,932,330	5,998,150
Biomass/Biogas	694,843	787,986	1,054,927	1,135,498
Geothermal	0	0	0	0
Hydroelectric	985,486	1,220,060	944,967	608,506
Solar	0	3,899,725	5,882,665	4,203,120
Wind	0	305,249	49,771	51,026
Other	0	0	0	0

³ 2005 Baseline Net Generation values corrected 1/22/24.

OWNED GENERATION CARBON EMISSIONS (Following GHG protocols)				
YEAR	2005 Baseline	2020	2021	2022
Total Generation (net MWh) (by ownership)	112,461,805	121,219,126	116,829,289	112,573,276
Carbon Dioxide (CO2)				
Total CO2 emissions (MT) (by ownership)	57,441,133	32,911,391	31,298,933	30,276,750
CO2 intensity rate (MT/net MWh) (by ownership)	0.511	0.272	0.268	0.269
Carbon Dioxide Equivalent (CO2e)				
Total CO2e emissions (MT) (by ownership)	59,364,033	32,957,387	31,660,079	30,622,102
CO2e intensity rate (MT/net MWh) (by ownership)	0.528	0.272	0.271	0.272

PURCHASED POWER CARBON EMISSIONS				
YEAR	2005 Baseline	2020	2021	2022
Total Purchased Generation (gross MWh)	20,868,925	12,001,527	21,074,593	24,992,604
Carbon Dioxide (CO2)				
Total Purchased Generation CO2 Emissions (MT)	17,840,409	4,567,006	8,302,444	7,578,661
Total Purchased Generation CO2 Emissions Intensity (MT/Gross MWh)	0.855	0.381	0.394	0.303
Carbon Dioxide Equivalent (CO2e)				
Total Purchased Generation CO2e Emissions (MT)	17,876,090	4,576,140	8,343,956	7,621,627
Total Purchased Generation CO2e Emissions Intensity (MT/Gross MWh)	0.857	0.381	0.396	0.305

OWNED GENERATION + PURCHASED POWER CARBON EMISSIONS (Following GHG protocols)				
YEAR	2005 Baseline	2020	2021	2022
Total Owned (net MWh) + Purchased Generation (Gross MWh)	133,330,730	133,220,653	137,903,882	137,565,880
Carbon Dioxide (CO2)				
Total Owned + Purchased Generation CO2 Emissions (MT)	75,281,543	37,478,396	39,601,376	37,855,411
Total CO2 Emissions Intensity, MT CO2 (Owned + Purchased) / Total MWh (Net Owned + Gross Purchased)	0.565	0.281	0.287	0.275
Carbon Dioxide Equivalent (CO2e)				
Total Owned + Purchased Generation CO2e Emissions (MT)	77,240,122	37,533,527	40,004,035	38,243,729
Total CO2e Emissions Intensity, MT CO2e (Owned + Purchased) / Total MWh (Net Owned + Gross Purchased)	0.579	0.282	0.290	0.278

OWNED NON-GENERATION CO2e EMISSIONS				
YEAR	2005 Baseline	2020	2021	2022
Fugitive CO2e emissions of sulfur hexafluoride (MT)	NA	34,720	41,242	83,237
Leak rate of fugitive CO2e emissions of SF6 (MT/capacity)	NA	0.005	0.005	0.102

OWNED GENERATION NITROGEN OXIDE (NO _x), SULFUR DIOXIDE (SO ₂), MERCURY (Hg)				
YEAR	2005 Baseline	2020	2021	2022
Generation basis for calculation	112,461,805	121,219,126	116,829,289	112,573,276
Nitrogen Oxide (NO _x)				
Total NO _x Emissions (MT)	89,432	9,942	10,509	11,327
Total NO _x Emissions Intensity (MT/Net MWh)	0.001	8.20E-05	9.00E-05	1.01E-04
Sulfur Dioxide (SO ₂)				
Total SO ₂ Emissions (MT)	258,864	3,862	4,868	5,309
Total SO ₂ Emissions Intensity (MT/Net MWh)	0.002	3.19E-05	4.17E-05	4.72E-05
Mercury (Hg)				
Total Hg Emissions (kg)	792	25	37	77
Total Hg Emissions Intensity (kg/Net MWh)	7.04E-06	2.09E-07	3.17E-07	6.81E-07

WATER				
YEAR	2020	2021	2022	
Water reused/recycled (million liters)	9,550,543	6,697,949	8,363,311	
Water reused/recycled (million liters/net MWh)	0.079	0.057	0.074	
Fresh water withdrawn (billion liters)	8,461	8,422	8335	
Fresh water consumed (billion liters)	42.3	42.11	41.7	
Water withdrawals - consumptive (billion liters/net MWh)	0.00000035	0.00000036	0.0000003	
Water withdrawals - non-consumptive (billion liters/net MWh) ¹	0.00007	0.000072	0.000074	

For more information on water metrics, visit our [Water CDP](#).

WASTE & RECYCLING			
YEAR	2020	2021	2022
Coal ash produced (million tons) ³	1.11	1.07	1.12
Coal ash reused/recycled (million tons) ³	0.31	0.34	0.31
Coal combustion byproducts produced (million tons) ³	1.49	1.53	1.64
Coal combustion byproducts reused/recycled (million tons) ^{2,3}	0.62	0.63	0.65
Percent of coal combustion byproducts reused / recycled	42%	41%	40%
Gypsum reused/recycled (tons)	307,682	297,133	255,604
Biomass combustion products reused/recycled (tons)	14,638	22,176	22,599
Oils, fluids for reclamation/recovery (tons)	1,953	1,884	4,640
Scrap metals reused/recycled (tons)	17,997	83,956	84,197
Paper, cardboard, plastic, glass reused/recycled (tons)	83.72	332	228
E-waste reused/recycled (tons)	62.99	106	137
Organics/compost reused/recycled (tons)	47.24	42.65	50.48
Hazardous waste produced (million lbs)	5.09	0.57	0.42

OTHER			
YEAR	2020	2021	2022
Notices of violation (NOVs) ⁴	13	12	2
Environmental penalties paid ⁵	\$1,477,737	\$110,276	\$64,145

¹ 2000 baseline = 0.000136 billion liters/net MWH

² 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.

³ The amount of CCB material recycled includes material from newly generated CCB, reuse of deposited material, and material from storage unit closures.

⁴ BHE Phase 1 excluded from NOVs as of 11/1/2020.

⁵ \$1,400,000 of the total penalties paid in 2020 was the EPA Consent Decree for legacy events from 2013-2018.