



Natural Gas (AGA Voluntary)

Disclaimer: All information below is being provided on a voluntary basis, and as such, companies may elect to include or exclude any of the topics outlined below and customize the template to their specific needs. The decision to include data for historical and future years is at the discretion of each company and the specific years (e.g., historical baseline) should be chosen as appropriate for each company.

Parent Company	Dominion Energy Inc
Operating Company(s)	DENC, DEO, DEQP, DESC, DEUWI, DEWexpro, DEWV
Business Type(s)	Vertically integrated
State(s) of Operation	CO, GA, ID, MD, NC, NY, OH, PA, SC, UT, VA, WV, WY
Regulatory Environment	<i>Regulated and Unregulated</i>
Report Date	September 28, 2022

Natural Gas Distribution

All methane leak sources per 98.232 (i) (1-6) are included for Distribution. Combustion sources are excluded. CO2 is excluded.

1. Onshore Natural Gas Transmission Compression Methane Emissions

Ref. No	Metric	Baseline Year 2010	Last Year 2020	Current Year 2021	Definitions
1.1	Number of Gas Distribution Customers	3,084,167	3,420,887	3,481,151	
1.2	<i>Distribution Mains in Service</i>				These metrics should include all local distribution companies (LDCs) held by the Parent Company that are above the LDC Facility reporting threshold for EPA's 40 C.F.R. 98, Subpart W reporting rule.
1.2.1	Plastic (<i>miles</i>)		39,348	39,986	
1.2.2	Cathodically Protected Steel - Bare & Coated (<i>miles</i>)		20,521	20,598	
1.2.3	Unprotected Steel - Bare & Coated (<i>miles</i>)		5,105	4,953	

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Ref. No	Metric	Baseline Year 2010	Last Year 2020	Current Year 2021	Definitions
1.2.4	Cast Iron / Wrought Iron - without upgrades (miles)		21	20	
1.3	<i>Plan/Commitment to Replace / Upgrade Remaining Miles of Distribution Mains (# years to complete)</i>				These metrics should provide the number of years remaining to take out of service, replace or upgrade cathodically unprotected steel mains, and cast iron/wrought iron mains, consistent with applicable state utility commission authorizations.
1.3.1	Unprotected Steel (Bare & Coated) (# years to complete)		24	23	Optional: # yrs by pipe type.
1.3.2	Cast Iron / Wrought Iron (# years to complete)		24	23	Optional: # yrs by pipe type.
2	<i>Distribution CO2e Fugitive Emissions</i>				
2.1	CO2e Fugitive Methane Emissions from Gas Distribution Operations (metric tons)		852,877	837,049	Fugitive methane emissions (not CO2 combustion emissions) stated as CO2e, as reported to EPA under 40 CFR 98, Subpart W, sections 98.236(q)(3)(ix)(D), 98.236(r)(1)(v), and 98.236(r)(2)(v)(B) - i.e., this is Subpart W methane emissions as input in row 2.2 below and converted to CO2e here. This metric should include fugitive methane emissions above the reporting threshold for all natural gas local distribution companies (LDCs) held by the Parent Company that are above the LDC Facility reporting threshold for EPA's 40 C.F.R. 98, Subpart W reporting rule. Calculated value based on mt CH4 input in the 2.2 (below).
2.2	CH4 Fugitive Methane Emissions from Gas Distribution Operations (metric tons)		34,115	33,482	INPUT VALUE (total mt CH4) as explained in definition above. Subpart W input is CH4 (mt).
2.2.1	CH4 Fugitive Methane Emissions from Gas Distribution Operations (MMSCF/year)		1,777	1,744	
2.3	Annual Natural Gas Throughput from Gas Distribution Operations in thousands of standard cubic feet (Mscf/year)		735,695,401	757,886,334	This metric provides gas throughput from distribution (quantity of natural gas delivered to end users) reported under Subpart W, 40 C.F.R. 98.236(aa)(9)(iv), as reported on the Subpart W e-GRRRT integrated reporting form in the "Facility Overview" worksheet Excel form, Quantity of natural gas delivered to end users (column 4).
2.3.1	Annual Methane Gas Throughput from Gas Distribution Operations in millions of standard cubic feet (MMscf/year)		698,911	719,992	
2.4	Fugitive Methane Emissions Rate (Percent MMscf of Methane Emissions per MMscf of Methane Throughput)		0.25%	0.24%	Calculated annual metric: (MMSFC methane emissions/MMSCF methane throughput)

Natural Gas Transmission and Storage

All methane leak sources per 98.232 (e) (1-8), (f)(1-8), and (m) are included for Transmission and Storage. Combustion sources are excluded. CO₂ and N₂O are excluded.

1. Onshore Natural Gas Transmission Compression Methane Emissions

Fugitive Methane emissions as defined in 40 CFR 98 Sub W Section 232 (e) (1-8), CO₂ and N₂O emissions are excluded from this section.

Ref. No	Metric	Baseline Year 2010	Last Year 2020	Current Year 2021	Definitions
1.1.1	Pneumatic Device Venting (metric tons/year)		84	12	Value reported using calculation in 40 CFR 98 Sub W Section 236(b)(4)
1.1.2	Blowdown Vent Stacks (metric tons/year)		1,161	157	Value reported using calculation in 40 CFR 98 Sub W Section 236(i)(1)(iii)
1.1.3	Transmission Storage Tanks (metric tons/year)		158	173	Value reported using calculation in 40 CFR 98 Sub W Section 236(k)(2)(v)
1.1.4	Flare Stack Emissions (metric tons/year)		0	0	Value reported using calculation in 40 CFR 98 Sub W Section 236(n)(11)
1.1.5	Centrifugal Compressor Venting (metric tons/year)		27	251	Value reported using calculation in 40 CFR 98 Sub W Section 236(o)(2)(ii)(D)(2)
1.1.6	Reciprocating Compressor Venting (metric tons/year)		740	24	Value reported using calculation in 40 CFR 98 Sub W Section 236(p)(2)(ii)(D)(2)
1.1.7	Equipment leaks from valves, connectors, open ended lines, pressure relief valves, and meters (metric tons/year)		204	20	Value reported using calculation in 40 CFR 98 Sub W Section 236(q)(2)(v)
1.1.8	Other Leaks (metric tons/year)		0	0	Value reported using calculation in 40 CFR 98 Sub W Section 236(q)(2)(v)
1.2	Total Transmission Compression Methane Emissions (metric tons/year)		2,373	636	
1.3	Total Transmission Compression Methane Emissions (CO ₂ e/year)		59,333	15,902	
1.4	Total Transmission Compression Methane Emissions (MSCF/year)		123,610	33,130	Density of Methane = 0.0192 kg/ft ³ per 40 CFR Sub W EQ. W-36

2. Underground Natural Gas Storage Methane Emissions

Fugitive Methane emissions as defined in 40 CFR 98 Sub W Section 232 (f) (1-8), CO₂ and N₂O emissions are excluded from this section.

Ref. No	Metric	Baseline Year 2010	Last Year 2020	Current Year 2021	Definitions
2.1.1	Pneumatic Device Venting (metric tons/year)		129	67	Value reported using calculation in 40 CFR 98 Sub W Section 236(b)(4)

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Ref. No	Metric	Baseline Year 2010	Last Year 2020	Current Year 2021	Definitions
2.1.2	Flare Stack Emissions (metric tons/year)		0	0	Value reported using calculation in 40 CFR 98 Sub W Section 236(n)(11)
2.1.3	Centrifugal Compressor Venting (metric tons/year)		13	62	Value reported using calculation in 40 CFR 98 Sub W Section 236(o)(2)(ii)(D)(2)
2.1.4	Reciprocating Compressor Venting (metric tons/year)		497	83	Value reported using calculation in 40 CFR 98 Sub W Section 236(p)(2)(ii)(D)(2)
2.1.5	Equipment leaks from valves, connectors, open ended lines, pressure relief valves, and meters (metric tons/year)		338	34	Value reported using calculation in 40 CFR 98 Sub W Section 236(q)(2)(v)
2.1.6	Other Equipment Leaks (metric tons/year)		0	0	Value reported using calculation in 40 CFR 98 Sub W Section 236(q)(2)(v)
2.1.7	Equipment leaks from valves, connectors, open-ended lines, and pressure relief valves associated with storage wellheads (metric tons/year)		267	118	Value reported using calculation in 40 CFR 98 Sub W Section 236(q)(2)(v)
2.1.8	Other equipment leaks from components associated with storage wellheads (metric tons/year)		0	0	Value reported using calculation in 40 CFR 98 Sub W Section 232(q)(2)(v)
2.2	Total Storage Compression Methane Emissions (metric tons/year)		1,243	363	
2.3	Total Storage Compression Methane Emissions (CO ₂ e/year)		31,085	9,083	
2.4	Total Storage Compression Methane Emissions (MSCF/year)		64,761	18,923	Density of Methane = 0.0192 kg/ft ³ per 40 CFR Sub W EQ. W-36

3. Onshore Natural Gas Transmission Pipeline Blowdowns

Blowdown vent stacks for onshore transmission pipeline as defined in 40 CFR 98 Sub W Section 232 (m), CO₂ and N₂O emissions are excluded from this section.

Ref. No	Metric	Baseline Year 2010	Last Year 2020	Current Year 2021	Definitions
3.1	Transmission Pipeline Blowdown Vent Stacks (metric tons/year)		3,106	573	Value reported using calculation in 40 CFR 98 Sub W Section 232(i)(3)(ii)
3.2	Transmission Pipeline Blowdown Vent Stacks (CO ₂ e/year)		77,648	14,323	
3.3	Transmission Pipeline Blowdown Vent Stacks (MSCF/year)		161,766	29,840	

4. Other Non-Sub W Emissions Data (OPTIONAL)

(OPTIONAL) If desired, report additional sources required by ONE Future include dehydrator vents, storage station venting transmission pipeline leaks, and storage tank methane.

Ref. No	Metric	Baseline Year 2010	Last Year 2020	Current Year 2021	Definitions
4.1	Total Methane Emissions from additional sources not recognized by 40 CFR 98 Subpart W (metric tons/year)		4,478	3,440	In this section, we have provided all other emissions associated with the transmission and storage segments that are not previously listed above. This includes additional sites not reported under GHGRP, additional ONE Future sources, re-calculated emissions for equipment leaks using LDAR data, and other sources that are not captured under 40 CFR 98 Sub W.
4.2	Total Methane Emissions from additional sources not recognized by 40 CFR 98 Subpart W (CO ₂ e/year)		111,948	86,012	
4.3	Total Methane Emissions from additional sources not recognized by 40 CFR 98 Subpart W (MSCF/year)		233,226	179,193	

5. Summary and Metrics

Ref. No	Metric	Baseline Year 2010	Last Year 2020	Current Year 2021	Definitions
5.1	Total Transmission and Storage Methane Emissions (MMSCF/year)		583	261	
5.2	Annual Natural Gas Throughput from Gas Transmission and Storage Operations (MSCF/year)		3,359,660,253	2,411,749,485	EIA 176 throughput or other reference for other throughput selected
5.2.1	Annual Methane Gas Throughput from Gas Transmission and Storage Operations (MMSCF/year)		3,191,677	2,291,162	Methane content in natural gas equals 95% based on 40 CFR 98 Sub W 233(u)(2)(vii)
5.3	Methane Emissions Intensity Metric (Percent MMscf of Methane Emissions per MMscf of Methane Throughput)		0.018%	0.011%	

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Natural Gas Gathering and Boosting

1. Methane Emissions

Ref. No	Metric	Baseline Year 2010	Last Year 2020	Current Year 2021	Definitions
1.1	Gathering and Boosting Pipelines, Blow Down Volumes, and Emissions				
1.1.1	Total Miles of Gathering Pipeline Operated by gas utility (miles)		1,137	3,716	
1.1.2	Volume of Gathering Pipeline Blow Down Emissions (scf)		388,179	0	This metric is collected to support calculations under EPA 40 CFR 98, Subpart W.
1.1.4	Gathering Pipeline Blow-Down Emissions outside storage and compression facilities (metric tons CO2e)		7,563	4,528	

2. CO2e Combustion Emissions for Gathering & Boosting Compression

Ref. No	Metric	Baseline Year 2010	Last Year 2020	Current Year 2021	Definitions
2.1	CO2e Emissions for Gathering & Boosting Compression Stations (metric tons)		105,644	76,019	CO2 combustion emissions as reported to EPA under 40 CFR 98, Subpart C, as directed in Subpart W, 98.232(k).

3. Conventional Combustion Emissions from Gathering & Boosting Compression

Ref. No	Metric	Baseline Year 2010	Last Year 2020	Current Year 2021	Definitions
3.1	Emissions reported for all permitted sources (minor or major)				The number of permitted sources for conventional emissions may not be the same number of sources reporting under the EPA GHG reporting rule. Companies may wish to describe which, or how many, sources are included in the conventional pollutants data and whether the CO2e data reported includes all of these sources.
3.1.1	NOx (metric tons per year)		289	1,111	
3.1.2	VOC (metric tons per year)		31	485	

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Human Resources

Ref. No	Metric	Baseline Year 2010	Last Year 2020	Current Year 2021	Definitions
1.1	Total Number of Employees		17,394	17,387	Reference Section 7 Human Resources in EEI Definitions tab.
1.2	Percentage of Women in Total Workforce		22%	22%	
1.3	Percentage of Minorities in Total Workforce		20%	21%	
2.1	Total Number on Board of Directors/Trustees		12	12	
2.2	Percentage of Women on Board of Directors/Trustees		25%	25%	
2.3	Percentage of Minorities on Board of Directors/Trustees		17%	17%	
3	Employee Safety Metrics				
3.1	Recordable Incident Rate		0.41	0.46	
3.2	Lost-time Case Rate			0.13	
3.3	Days Away, Restricted, and Transfer (DART) Rate		0.27	0.28	
3.4	Work-related Fatalities		0	0	

Additional Metrics

Ref. No	Metric	Baseline Year 2010	Last Year 2020	Current Year 2021	Definitions
1	TOTAL CORPORATE METHANE AND CARBON EMISSIONS INVENTORY				Consistent with GHG Protocols, the 2010 Methane baseline and 2021 figures represent the DE companies post divestment, acquisitions, and partial equity (Cardinal and Pine Needle). As such, for 2021 reporting, Questar Pipeline (formerly DEQP, divested 1 January 2022) assets and Dominion Energy West Virginia (DEWV) assets, in anticipation of a 2022 sale, are not included. In addition, in the interest of consistency and transparency, Cove Point, LLC's emissions are included in the company's Net Zero commitment at 50% equity share. CO2e as reported in 1.2 includes methane and carbon dioxide only, nitrous oxide is not included for being immaterial to corporate inventory.
1.1	Total Corporate Inventory Methane - Gas Business Post Divestiture and Cove Point, LLC (Metric Tons)	89,986		55,756	
1.1.1	Inventory Methane - Gas Business Post Divestiture (Metric Tons)	89,402		55,437	
1.1.2	Inventory Methane - Cove Point, LLC (Metric Tons)	584		319	
1.2	Total Corporate Inventory CO2e - Gas Business Post Divestiture and Cove Point, LLC (Metric Tons)	3,099,629		2,754,218	
1.2.1	Inventory CO2e - Gas Business Post Divestiture (Metric Tons)	2,992,872		2,182,750	
1.2.2	Inventory CO2e - Cove Point, LLC (Metric Tons)	106,757		571,468	

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