2023 AGA (Natural Gas) Reporting Template

Data included in EEI/AGA quantitative templates were sourced from previously reported disclosures, such as EPA GHGRP and Dominion Energy's third-party verified corporate inventory.

Parent Company:	Dominion Energy Inc	**State(s) of Operation:**	CO, ID, NC, OH, SC, UT, WY
Operating Company(s):	DENC, DEO, DESC, DEUWI, DEWexpro	**Regulatory Environment:**	Regulated and Unregulated
Business Type(s):	Vertically Integrated	**Report Date:**	September 24, 2024

NATURAL GAS DISTRIBUTION

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

Ref. No	Metric	Baseline Year 2010	Last Year 2022	Current Year 2023	Definitions
1	**Methane Emissions and Mitigation from Distribution Mains**				
1.1	Number of Gas Distribution Customers	3,084,167	3,426,459	3,483,632	
1.2	*Distribution Mains in Service*				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 (miles)*		39,453	40,466	
1.2.2	*Cathodically Protected Steel - Bare & Coated (miles)*		19,729	19,860	
1.2.3	*Unprotected Steel - Bare & Coated (miles)*		3,946	3,746	
1.2.4	*Cast Iron / Wrought Iron - without upgrades (miles)*		18	18	

Ref. No	Metric	Baseline Year 2010	Last Year 2022	Current Year 2023	Definitions
1.3	*Plan/Commitment to Replace / Upgrade Remaining Miles of Distribution Mains (# years to complete)*				These metrics should provide the number of years remaining to take out of service, replace or upgrade catholdically unprotected steel mains, and cast iron/wrought iron mains, consistent with applicable state utility commission authorizations. DEO has an active pipeline replacement program which is reauthorized by the Public Utilities Commission of Ohio at regular intervals during which time adjustments to the program completion schedule may be proposed as deemed appropriate. Though the entirety of the program is not currently approved by the Public Utilities Commission of Ohio, DEO's current rate of replacement targets completion of unprotected steel and cast iron projects by 2040.
1.3.1	*Unprotected Steel (Bare & Coated) (# years to complete)*		18	17	Optional: # yrs by pipe type.
1.3.2	*Cast Iron / Wrought Iron (# years to complete)*		18	17	Optional: # yrs by pipe type.

Ref. No	Metric	Baseline Year 2010	Last Year 2022	Current Year 2023	Definitions
2	**Distribution CO2e Fugitive Emissions[1]**				
2.1	*CO2e Fugitive Methane Emissions from Gas Distribution Operations (metric tons)*		755,914	740,049	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)*		30,237	29,602	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)*		1,575	1,542	
2.3	*Annual Natural Gas Throughput from Gas Distribution Operations in thousands of standard cubic feet (Mscf/year)*		771,276,668	726,072,596	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-GRRT 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)*		732,713	689,769	
2.4	*Fugitive Methane Emissions Rate (Percent MMscf of Methane Emissions per MMscf of Methane Throughput)*		0.21%	0.22%	Calculated annual metric: (MMSFC methane emissions/MMSCF methane throughput)

[1] Total CO2e is calculated using the following "Global Warming Potential (GWP)" from the IPCC Fourth Assessment Report: $CO_2 = 1$, $CH_4 = 25$, $N_2O = 298$, $SF_6 = 22,800$

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.

Ref. No	Metric	Baseline Year 2010	Last Year 2022	Current Year 2023	Definitions
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.
1.1.1	Pneumatic Device Venting (metric tons/year)		2	2	Value reported using calculation in 40 CFR 98 Sub W Section 236(b)(4)
1.1.2	*Blowdown Vent Stacks (metric tons/year)*		9	34	Value reported using calculation in 40 CFR 98 Sub W Section 236(i)(1)(iii)
1.1.3	*Transmission Storage Tanks (metric tons/year)*		29	5	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)*		0	0	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)*		73	66	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)*		3	4	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)*		116	111	
1.3	*Total Transmission Compression Methane Emissions (CO2e/year)*		2,889	2,775	
1.4	*Total Transmission Compression Methane Emissions (MSCF/year)*		6,019	5,780	Density of Methane = 0.0192 kg/ft3 per 40 CFR Sub W EQ. W-36

Ref. No	Metric	Baseline Year 2010	Last Year 2022	Current Year 2023	Definitions
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.
2.1.1	*Pneumatic Device Venting (metric tons/year)*		50	48	Value reported using calculation in 40 CFR 98 Sub W Section 236(b)(4)
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)*		42	33	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)*		33	149	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)*		34	11	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)*		70	81	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)*		229	321	
2.3	*Total Storage Compression Methane Emissions (CO2e/year)*		5,724	8,032	
2.4	*Total Storage Compression Methane Emissions (MSCF/year)*		11,925	16,733	Density of Methane = 0.0192 kg/ft3 per 40 CFR Sub W EQ. W-36

Ref. No	Metric	Baseline Year 2010	Last Year 2022	Current Year 2023	Definitions
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.
3.1	*Transmission Pipeline Blowdown Vent Stacks (metric tons/year)*		208	0	Value reported using calculation in 40 CFR 98 Sub W Section 232(i)(3)(ii)
3.2	*Transmission Pipeline Blowdown Vent Stacks (CO2e/year)*		5,192	0	
3.3	*Transmission Pipeline Blowdown Vent Stacks (MSCF/year)*		10,816	0	

Ref. No	Metric	Baseline Year 2010	Last Year 2022	Current Year 2023	Definitions
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.
4.1	*Total Methane Emissions from additional sources not recognized by 40 CFR 98 Subpart W (metric tons/year)*		1,428	1,522	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 (CO2e/year)*		35,689	38,062	
4.3	*Total Methane Emissions from additional sources not recognized by 40 CFR 98 Subpart W (MSCF/year)*		74,352	79,296	

Ref. No	Metric	Baseline Year 2010	Last Year 2022	Current Year 2023	Definitions
5	**Summary and Metrics**				
5.1	*Total Transmission and Storage Methane Emissions (MMSCF/year)*		103	102	
5.2	*Annual Natural Gas Throughput from Gas Transmission and Storage Operations (MSCF/year)*		1,261,885,227	1,173,257,270	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)*		1,198,791	1,114,594	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)*		0.01%	0.01%	

NATURAL GAS GATHERING AND BOOSTING

Ref. No	Metric	Baseline Year 2010	Last Year 2022	Current Year 2023	Definitions
1	**Methane Emissions**				
1.1	Gathering and Boosting Pipelines, Blow Down Volumes, and Emissions				
1.1.1	*Total Miles of Gathering Pipeline Operated by gas utility (miles)*		1,641	1,906	
1.1.2	*Volume of Gathering Pipeline Blow Down Emissions (scf)*				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)*		7,170	5	

Ref. No	Metric	Baseline Year 2010	Last Year 2022	Current Year 2023	Definitions
2	**CO2e Combustion Emissions for Gathering & Boosting Compression**				
2.1	*CO2e Emissions for Gathering & Boosting Compression Stations (metric tons)*		100,535	82,388	CO2 combustion emissionsas reported to EPA under 40 CFR 98, Subpart C, as directed in Subpart W, 98.232(k).

Ref. No	Metric	Baseline Year 2010	Last Year 2022	Current Year 2023	Definitions
3	**Conventional Combustion Emissions from Gathering & Boosting Compression**				
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)*		1,014	864	
3.1.2	*VOC (metric tons per year)*		425	484	

HUMAN RESOURCES

Ref. No	Metric	Baseline Year 2010	Last Year 2022	Current Year 2023	Definitions
1.1	Total Number of Employees		17,211	17,773	Reference Section 7 Human Resources in EEI Definitions tab.
1.2	*Percentage of Women in Total Workforce*		23%	23%	
1.3	*Percentage of Minorities in Total Workforce*		22%	23%	
2.1	Total Number on Board of Directors/Trustees		11	11	
2.2	*Percentage of Women on Board of Directors/Trustees*		27%	36%	
2.3	*Percentage of Minorities on Board of Directors/Trustees*		18%	27%	
3	Employee Safety Metrics				
3.1	*Recordable Incident Rate*		0.52	0.45	
3.2	*Lost-time Case Rate*		0.20	0.16	
3.3	*Days Away, Restricted, and Transfer (DART) Rate*		0.15[2]	0.07	
3.4	*Work-related Fatalities*		0	0	

[2] DART rate corrected from 2022 AGA disclosure.