

**Natural Gas Metrics**

**AGA Voluntary Sustainability Metrics: Quantitative Information - DE Gas Utilities**

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<b>Parent Company</b>	Dominion Energy Inc
<b>Operating Company(s)</b>	DEUWI, DEO, DEWV, DESC, DENC
<b>Business Type(s)</b>	Vertically integrated
<b>State(s) of Operation</b>	OH, SC, WV, UT, WY, ID, NC
<b>Regulatory Environment</b>	Regulated and Unregulated

<b>Report Date</b>	8/3/2021
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Ref. No.	Metric	Year 2018	Year 2019	Definitions	Comments
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**Natural Gas Distribution**

<b>1</b>	<b>Methane Emissions and Mitigation from Distribution Mains</b>				
1.1	Number of Gas Distribution Customers	3,293,641	3,350,610		For all EPA-reported distribution companies.

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	Distribution Mains in Service	62,892	64,218		For all EPA-reported distribution companies.
1.2.1	Plastic (miles)	37,056*	38,495		For all EPA-reported distribution companies.
1.2.2	Cathodically Protected Steel - Bare & Coated (miles)	20,375	20,463		For all EPA-reported distribution companies.
1.2.3	Unprotected Steel - Bare & Coated (miles)	5,437	5,238		For all EPA-reported distribution companies.
1.2.4	Cast Iron / Wrought Iron - without upgrades (miles)	24	22		For all EPA-reported distribution companies.

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 cathodically unprotected steel mains, and cast iron/wrought iron mains, consistent with applicable state utility commission authorizations.	For all EPA-reported distribution companies.
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1.3.1	Unprotected Steel (Bare & Coated)	14	24	This metric should be the longest period of all distribution companies.	DEUT and DENC replaced all unprotected steel and cast iron over 10 years ago. DEO has an active pipeline replacement program which is reauthorized at regular intervals during which time adjustments to the program completion schedule may be proposed as deemed appropriate. DEWV has an active pipeline replacement program which was approved for acceleration in October 2019 as a 24 year program.
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1.3.2	Cast Iron / Wrought Iron	14	24	This metric should be the longest period of all distribution companies.	DEUT and DENC replaced all unprotected steel and cast iron over 10 years ago. DEO has an active pipeline replacement program which is reauthorized at regular intervals during which time adjustments to the program completion schedule may be proposed as deemed appropriate. DEWV has an active pipeline replacement program which was approved for acceleration in October 2019 as a 24 year program.
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**2 Distribution CO<sub>2</sub>e Fugitive Emissions**

2.1	CO <sub>2</sub> e Fugitive Methane Emissions from Gas Distribution Operations (metric tons)	880,108	864,659*	Fugitive methane emissions (not CO <sub>2</sub> combustion emissions) stated as CO <sub>2</sub> e, as reported to EPA under 40 CFR 98, Subpart W, sections 98.236(q)(3)(ix)(C) and (D), 98.236(r)(1)(iv) and (v), and 98.236(r)(2)(v)(A) and (B). 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.	Reports fugitive methane emissions only - Does not include CO <sub>2</sub> emissions which are reported to EPA.
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2.1a	Fugitive Methane Emissions from Gas Distribution Operations (metric tons)	35,204	34,586*		Methane emissions from EPA-reported LDCs DEUT, DEWV, DEO, DENC, DESC, and DEWY. DEWY began reporting to EPA under distribution segment, beginning 2019.
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2.2	Natural Gas Throughput from Gas Distribution Operations in thousands of scf	714,361,043*	747,441,425*	This metric provides gas distribution throughput reported under Subpart W, 40 C.F.R. 98.236(aa)(9)(i) through (iii), as reported on the Subpart W e-GRRT integrated reporting form in the "Facility Overview" worksheet Excel form, gas received (column 1) plus the gas withdrawn (column 2) minus the gas injected into storage (column 3). See screenshot of e-GRRT report provided in template instructions.	Throughput from EPA-reported LDCs DEUT, DEWV, DEO, DENC, DESC, and DEWY. DEWY began reporting to EPA under distribution segment, beginning 2019.
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2.3	CO <sub>2</sub> e Fugitive Methane Emissions Rate (metric tons per thousands scf of Throughput)	0.0012	.0012* (Row 2.1)/(Row 2.2)		
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2.3a	Fugitive Methane Emissions Rate (metric tons methane per methane content of the above mscf of Throughput)	.00027*	0.00025 CH <sub>4</sub> in gas	(Row 2.1a divided by density of CH <sub>4</sub> )/(Row 2.2 times 0.95 percent)	
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**Natural Gas Transmission & Storage**

1.2	Transmission Pipelines, Blow Down Volumes, and Fugitive Emissions				
1.2.1	Total Miles of Transmission Pipeline Operated by gas utility (miles)	N/A	1,008		DEO began reporting to EPA under TPL segment, beginning 2019.

1.2.2	Volume of Transmission Pipeline Blow Down Emissions - outside storage and compression facilities:			As reported to EPA under 40 CFR 98, Subpart W.	
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1.2.2.1	Scf of natural gas	N/A	N/A*	This metric is not reported to EPA; however, it is collected to support calculations under EPA 40 CFR 98, Subpart W.	Not reported to EPA.
1.2.2.3	Metric tons CO <sub>2</sub> e	N/A	38,220*		DEO began reporting to EPA under TPL segment, beginning 2019.

1.3	Underground Natural Gas Storage Emissions				Total EPA-reported DEO storage station emissions (Chippewa & Robinson) without wellhead emissions. DEO's Chippewa and Robinson facility are the only Dominion Energy storage facilities that are part of a utility and reports to EPA under GHGRP.
1.3.2	Storage Compressor Station Emissions (metric tons CO <sub>2</sub> e)	5,430	6,647*	As reported to EPA under 40 CFR 98, Subpart W.	

1.3.3	Storage Facility Wellhead Component Fugitive Emissions (metric tons of CO2e)	1,764	1,764*	Utilizing EPA emissions factors, as reported to EPA under Subpart W, 40 CFR 98.236, on the e-GRRT integrated reporting form, "Equipment Leaks Surveys and Population Counts [98.236 (q, r)]" tab.	Total EPA-reported DEO storage station emissions (Chippewa & Robinson) without wellhead emissions. DEO's Chippewa and Robinson facility are the only Dominion Energy storage facilities that are part of a utility and reports to EPA under GHGRP.
<b>2 CO2e Emissions for Transmission and Storage Compression</b>					
2.1	CO2e Emissions for Transmission Pipelines (metric tons)	26,677*	25,745	CO2 combustion emissions as reported to EPA under 40 CFR 98, Subpart C and methane emissions stated as CO2e as reported under Subpart W.	Total EPA-reported DEO transmission station (Switzerland) emissions including Subpart C. DEO's Switzerland facility is the only Dominion Energy transmission facility that is part of a utility and reports to EPA under GHGRP.
2.2	CO2e Emissions for Storage Facilities (metric tons)	45,607*	48,594*	CO2 combustion emissions as reported to EPA under 40 CFR 98, Subpart C and methane emissions stated as CO2e as reported under Subpart W.	Total EPA-reported DEO storage station (Chippewa and Robinson) emissions including Subpart C. DEO's Chippewa and Robinson facility are the only Dominion Energy storage facilities that are part of a utility and reports to EPA under GHGRP.
<b>3 Conventional Air Emissions from Transmission and Storage Compression</b>					
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)	174	189		From DEO (Chippewa, Robinson, and Switzerland).
3.1.2	VOC (metric tons per year)	52	25		From DEO (Chippewa, Robinson, and Switzerland).

### Natural Gas Gathering & Boosting

<b>1 Methane Emissions</b>					
1.1	Gathering and Boosting Pipelines, Blow Down Volumes, and Emissions				
1.1.1	Total Miles of Gathering Pipeline Operated by gas utility (miles)	844	827		Total EPA-reported DEO gathering and boosting (G&B) facility. DEO's G&B facility is the only Dominion Energy G&B facility that is part of a utility and reports to EPA under GHGRP.
1.1.2	Volume of Gathering Pipeline Blow Down Emissions (scf)	N/A	N/A	This metric is collected to support calculations under EPA 40 CFR 98, Subpart W.	Not reported to EPA.
1.1.4	Gathering Pipeline Blow-Down Emissions outside storage and compression facilities (metric tons CO2e)	84	27		Total EPA-reported DEO gathering and boosting (G&B) facility. DEO's G&B facility is the only Dominion Energy G&B facility that is part of a utility and reports to EPA under GHGRP.
<b>2 CO2e Combustion Emissions for Gathering &amp; Boosting Compression</b>					
2.1	CO2e Emissions for Gathering & Boosting Compression Stations (metric tons)	42,714*	38,264	CO2 combustion emissions as reported to EPA under 40 CFR 98, Subpart C, as directed in Subpart W, 98.232(k). There is no Subpart C for Gathering and Boosting	There is no Subpart C for G&B. Combustion emissions are reported under Subpart W. The value represents DEO G&B emissions reported to EPA under Subpart W.
<b>3 Conventional Combustion Emissions from Gathering &amp; Boosting Compression</b>					
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)	181	212		Emissions reported to the state of Ohio for the following DEO G&B stations: Austintown, Cambridge, and Pike. DEO's G&B facility is the only Dominion Energy G&B facility that is part of a utility and reports to EPA under GHGRP.
3.1.2	VOC (metric tons per year)	18	26		Emissions reported to the state of Ohio for the following DEO G&B stations: Austintown, Cambridge, and Pike. DEO's G&B facility is the only Dominion Energy G&B facility that is part of a utility and reports to EPA under GHGRP.

### Dominion Energy Utility and Non-Utility T&S Voluntary Sustainability Metrics: Quantitative Information

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<b>Parent Company</b>	Dominion Energy Inc (Transmission and Storage)
<b>Operating Company(s)</b>	DETI, DECG, DEQP, DEO
<b>Business Type(s)</b>	Vertically integrated
<b>State(s) of Operation</b>	VA, PA, WV, OH, MD, NY, SC, UT, WY, CO
<b>Regulatory Environment</b>	Unregulated
<b>Report Date</b>	8/3/2021

Ref. No.	Metric	Year 2018	Year 2019	Definitions	Comments
<b>Methane Emissions from Natural Gas Transmission &amp; Storage</b>					
<b>1 Transmission Pipelines Blowdowns (between compressor station)</b>					
1.1	Transmission Pipeline Miles Represented in EPA Subpart W Transmission Pipeline Blowdown Reports	6,056	7,053*	As reported to EPA under 40 CFR 98, Subpart W.	DETI, DEQP and DEO are the only companies that triggered the TPL segment for GHGRP reporting under Subpart W in 2019. DEO began reporting to EPA under TPL segment beginning in 2019.
1.2	Transmission Pipeline Blowdowns (metric tons CH4)	7,741	4,821	As reported to EPA under 40 CFR 98, Subpart W.	DETI, DEQP and DEO are the only companies that triggered the TPL segment for GHGRP reporting under Subpart W in 2019. DEO began reporting to EPA under TPL segment beginning in 2019.
1.3	Transmission Pipeline Natural Gas Throughput (mscf)	2,667,569,440*	3,201,922,235*	As reported to EPA under 40 CFR 98, Subpart W, Quantity of natural gas received at all custody transfer stations in the calendar year (mscf) plus net storage withdrawals.	Data reported consistent with Form EIA-176. DETI, DEQP and DEO are the only companies that triggered the TPL segment for GHGRP reporting under Subpart W in 2019. DEO began reporting to EPA under TPL segment beginning in 2019.
1.4	Methane Intensity of Blowdowns along Transmission Pipelines (between compressor stations)	.0002*	0.0001	(Row 1.2 divided by density of CH4)/(Row 1.3 times 0.95 percent CH4 in gas)	
<b>2 Transmission &amp; Storage Compressor Stations</b>					
2.1	Number of Stations represented in EPA Subpart W T&S Reports	33*	34*	As reported to EPA under 40 CFR 98, Subpart W, counting each station separately, even if reporting with another station as a co-located facility.	26 Transmission Stations, 8 Storage, from DETI, DECG, DEO, and DEQP
2.2	Transmission & Storage Compressor Station Emissions (metric tons CH4)	5,958*	4,127*	As reported to EPA under 40 CFR 98, Subpart W, CH4 only.	Total EPA-reported DETI, DECG, DEQP and DEO T&S station CH4 emissions.

				Utilizing EPA emissions factors, as reported to EPA under Subpart W, 40 CFR 98.236, on the e-GRRRT integrated reporting form, "Equipment Leaks Surveys and Population Counts [98.236 (q, r)]" tab.	Total EPA-reported DETI, DEQP, and DEO storage station wellhead CH4 emissions.
2.2a	Storage Pool Wellhead Component Fugitive Emissions (metric tons CH4)	282	277		
2.3	Transmission and Storage Station Combined Natural Gas Throughput (mscf)	2,556,626,628*	2,856,654,786*	As reported to EPA under 40 CFR 98, Subpart W, Quantity of natural gas received at all custody transfer stations in the calendar year (mscf).	
2.4	Methane Intensity from T&S Compressor Stations	0.0001	0.0001	(Row 2.2 divided by density of CH4)/(Row 2.3 times 0.95 percent CH4 in gas)	

#### Dominion Energy Utility and Non-Utility Gathering Voluntary Sustainability Metrics: Quantitative Information

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<b>Parent Company</b>	Dominion Energy Inc (Gathering and Boosting)
<b>Operating Company(s)</b>	DETI, DEO, DEWexpro
<b>Business Type(s)</b>	Vertically integrated
<b>State(s) of Operation</b>	PA, WV, OH, UT, WY, CO
<b>Regulatory Environment</b>	Unregulated

<b>Report Date</b>	8/3/2021
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Ref. No.	Metric	Year 2018	Year 2019	Definitions	Comments
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#### Methane Emissions from Natural Gas Gathering & Boosting

Ref. No.	Metric	Year 2018	Year 2019	Definitions	Comments
<b>1</b>	<b>Gathering and Boosting Basin Emissions</b>				
1.1	Gathering Pipeline Miles represented in EPA Subpart W G&B Reports	4,047	2,968	As reported to EPA under 40 CFR 98, Subpart W.	For EPA-reported G&B basins reported under DETI, DEO, and DEWexpro.
1.2	Number of geologic basin represented in EPA Subpart W G&B Reports	3	3	As reported to EPA under 40 CFR 98, Subpart W.	Green River Basin (535), Appalachian Basin (160), and Appalachian Basin (Eastern Overthrust) (160A).
1.3	Gathering and Boosting Emissions (metric tons CH4)	4,182*	3,259*	As reported to EPA under 40 CFR 98, Subpart W, CH4 only.	For EPA-reported G&B basins reported under DETI, DEO, and DEWexpro.
1.4	Throughput of Natural Gas through Gathering & Boosting	255,044,846	141,136,482	Gas received by G&B facilities, as reported to EPA under 40 CFR 98, Subpart W.	For EPA-reported G&B basins reported under DETI, DEO, and DEWexpro.
1.5	Methane Intensity of Gathering & Boosting	0.0009	.0013*	(Row 1.3 divided by density of CH4)/(Row 1.4 times 0.95 percent CH4 in gas)	

#### Dominion Energy Utility and Non-Utility Additional Voluntary Sustainability Metrics: Quantitative Information

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<b>Parent Company</b>	Dominion Energy Inc
<b>Operating Company(s)</b>	DEUWI, DEO, DEWV, DESC, DENC DETI, DECG, DEQP, DEWexpro, DECP
<b>Business Type(s)</b>	Vertically integrated
<b>State(s) of Operation</b>	OH, SC, WV, UT, WY, ID, NC, VA, PA, MD, NY, CO
<b>Regulatory Environment</b>	Regulated and unregulated

<b>Report Date</b>	8/3/2021
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Ref. No.	Metric	Year 2010	Year 2019	Definitions	Comments
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#### Methane Emissions from Natural Gas

Ref. No.	Metric	Year 2010	Year 2019	Definitions	Comments
<b>1</b>	<b>Other Emissions Data</b>				
1.1	Total Corporate Inventory Methane - Post Divestiture (Metric Tons)	95,706	66,289		Consistent with GHG Protocols, the 2010 Methane baseline and 2019 figures represent the DE companies post divestment.
1.2	CO2e from Gas Business - Post Divestiture (Metric Tons)		1,811,591		

#### Notes:

\*Reflects changes from previously reported figures due to minor calculation updates