



# Gas Company ESG/Sustainability Quantitative Information

Ref. No.	Refer to the "Definitions" column for more information on each metric.	Last Year 2020	Current Year 2021	Next Year 2022	Definitions	
<b>Natural Gas Distribution</b>						
1	<b>METHANE EMISSIONS AND MITIGATION FROM DISTRIBUTION MAINS</b>				<p><b><u>All methane leak sources per 98.232 (i) (1-6) are included for Distribution. Combustion sources are excluded. CO<sub>2</sub> is excluded.</u></b></p> <p>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.</p> <p>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. Optional: # yrs by pipe type. Optional: # yrs by pipe type.</p> <p>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)(D), 98.236(r)(1)(v), and 98.236(r)(2)(v)(B) - i.e., <u>this is Subpart W methane emissions as input in row 2.2 below and converted to CO<sub>2</sub>e here</u>. 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. <u>Calculated value based on mt CH<sub>4</sub> input in the 2.2 (below).</u></p> <p>INPUT VALUE (total mt CH<sub>4</sub>) as explained in definition above. Subpart W input is CH<sub>4</sub> (mt).</p> <p>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).</p> <p>Calculated annual metric: (MMSFC methane emissions/MMSCF methane throughput)</p>	
1.1	Number of Gas Distribution Customers	856,000	865,000			
1.2	Distribution Mains in Service					
1.2.1	Plastic (miles)	8,887	8,953			
1.2.2	Cathodically Protected Steel - Bare & Coated (miles)	4,068	4,064			
1.2.3	Unprotected Steel - Bare & Coated (miles)	0	0			
1.2.4	Cast Iron / Wrought Iron - without upgrades (miles)	0	0			
1.3	Plan/Commitment to Replace / Upgrade Remaining Miles of Distribution Mains (# years to complete)	0	0			
1.3.1	Unprotected Steel (Bare & Coated) (# years to complete)	0	0			
1.3.2	Cast Iron / Wrought Iron (# years to complete)	0	0			
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)	61,745	63,275			
2.2	CH <sub>4</sub> Fugitive Methane Emissions from Gas Distribution Operations (metric tons)	2,470	2,531			
2.2.1	CH <sub>4</sub> Fugitive Methane Emissions from Gas Distribution Operations (MMSCF/year)	129	132			
2.3	Annual Natural Gas Throughput from Gas Distribution Operations in thousands of standard cubic feet (Mscf/year)	112,300,559	114,370,827			
2.3.1	Annual Methane Gas Throughput from Gas Distribution Operations in millions of standard cubic feet (MMscf/year)	106,686	108,652			
2.4	Fugitive Methane Emissions Rate (Percent MMscf of Methane Emissions per MMscf of Methane Throughput)	0.12%	0.12%			
<b>Natural Gas Transmission and Storage</b>						
1	<b>Onshore Natural Gas Transmission Compression Methane Emissions</b>					<p><b><u>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. CO<sub>2</sub> and N<sub>2</sub>O are excluded.</u></b></p> <p>Fugitive Methane emissions as defined in 40 CFR 98 Sub W Section 232 (e) (1-8), CO<sub>2</sub> and N<sub>2</sub>O emissions are excluded from this section.</p> <p>Value reported using calculation in 40 CFR 98 Sub W Section 236(b)(4) Value reported using calculation in 40 CFR 98 Sub W Section 236(i)(1)(iii) Value reported using calculation in 40 CFR 98 Sub W Section 236(k)(2)(v) Value reported using calculation in 40 CFR 98 Sub W Section 236(n)(11) Value reported using calculation in 40 CFR 98 Sub W Section 236(o)(2)(ii)(D)(2) Value reported using calculation in 40 CFR 98 Sub W Section 236(p)(2)(ii)(D)(2) Value reported using calculation in 40 CFR 98 Sub W Section 236(q)(2)(v) Value reported using calculation in 40 CFR 98 Sub W Section 236(q)(2)(v)</p> <p>Density of Methane = 0.0192 kg/ft<sup>3</sup> per 40 CFR Sub W EQ. W-36</p>
1.1.1	Pneumatic Device Venting (metric tons/year)	0.0	0.0			
1.1.2	Blowdown Vent Stacks (metric tons/year)	0.0	0.0			
1.1.3	Transmission Storage Tanks (metric tons/year)	0.0	0.0			
1.1.4	Flare Stack Emissions (metric tons/year)	0.0	0.0			
1.1.5	Centrifugal Compressor Venting (metric tons/year)	0.0	0.0			
1.1.6	Reciprocating Compressor Venting (metric tons/year)	0.0	0.0			
1.1.7	Equipment leaks from valves, connectors, open ended lines, pressure relief valves, and meters (metric tons/year)	0.0	0.0			
1.1.8	Other Leaks (metric tons/year)	0.0	0.0			
1.2	Total Transmission Compression Methane Emissions (metric tons/year)	0.0	0.0			
1.3	Total Transmission Compression Methane Emissions (CO <sub>2</sub> e/year)	0.0	0.0			
1.4	Total Transmission Compression Methane Emissions (MSCF/year)	0.0	0.0			



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<b>2</b>	<b>Underground Natural Gas Storage Methane Emissions</b>				<b>Fugitive Methane</b> 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)	12.1	4.1		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	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)	3.8	6.1		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)	0.2	1.1		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)	52.6	8.6		Value reported using calculation in 40 CFR 98 Sub W Section 236(q)(2)(v)
2.1.6	Other Equipment Leaks (metric tons/year)	-	0.1		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	33.7	11.2		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)	102.3	31.1		
2.3	Total Storage Compression Methane Emissions (CO2e/year)	2,557.2	776.9		
2.4	Total Storage Compression Methane Emissions (MSCF/year)	5,327.4	1,618.5		Density of Methane = 0.0192 kg/ft3 per 40 CFR Sub W EQ. W-36
<b>3</b>	<b>Onshore Natural Gas Transmission Pipeline Blowdowns</b>				<b>Blowdown vent stacks for onshore transmission pipeline</b> 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)	0.0	0.0		Value reported using calculation in 40 CFR 98 Sub W Section 232(j)(3)(ii)
3.2	Transmission Pipeline Blowdown Vent Stacks (CO2e/year)	0.0	0.0		
3.3	Transmission Pipeline Blowdown Vent Stacks (MSCF/year)	0.0	0.0		
<b>4</b>	<b>Other Non-Sub W Emissions Data (OPTIONAL)</b>				<b>(OPTIONAL)</b> 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)	0.0	0.0		
4.2	Total Methane Emissions from additional sources not recognized by 40 CFR 98 Subpart W (CO2e/year)	0.0	0.0		
4.3	Total Methane Emissions from additional sources not recognized by 40 CFR 98 Subpart W (MSCF/year)	0.0	0.0		
<b>5</b>	<b>Summary and Metrics</b>				<b>EIA 176 throughput or other reference for other throughput selected</b>
5.1	Total Transmission and Storage Methane Emissions (MMSCF/year)	5	1.6		Methane content in natural gas equals 95% based on 40 CFR 98 Sub W 233(u)(2)(vii)
5.2	Annual Natural Gas Throughput from Gas Transmission and Storage Operations (MSCF/year)	34,460,817	63,949,374		
5.2.1	Annual Methane Gas Throughput from Gas Transmission and Storage Operations (MMSCF/year)	32,738	60,751.9		
5.3	Methane Emissions Intensity Metric (Percent MMScf of Methane Emissions per MMScf of Methane Throughput)	0.016%	0.003%		

Additional Metrics (Optional)					
<i>Insert additional rows in this section as necessary.</i>					