



Gas Company ESG/Sustainability Quantitative Information

Parent Company:
 Operating Company(s):
 Business Type(s):
 State(s) of Operation:
 Regulatory Environment:
 Report Date:

(e.g., vertically integrated, T&D only, competitive integrated)
(e.g., deregulated, regulated, both)

Ref. No.	Refer to the "Definitions" column for more information on each metric.	Baseline	Last Year	Current Year	Next Year	Future Year	Definitions
		2012	2017	2018	2019	2020	
Natural Gas Distribution							
1	METHANE EMISSIONS AND MITIGATION FROM DISTRIBUTION MAINS						All methane leak sources per 98.232 (f) (1-6) are included for Distribution. Combustion sources are excluded. CO₂ is excluded.
1.1	Number of Gas Distribution Customers	591,625	648,264	655,806	664,929	-	
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)	6,591	7,307	7,425	7,509	-	
1.2.2	Cathodically Protected Steel - Bare & Coated (miles)	3,611	3,707	3,670	3,462	-	
1.2.3	Unprotected Steel - Bare & Coated (miles)	1,283	937	902	843	-	
1.2.4	Cast Iron / Wrought Iron - without upgrades (miles)	472	298	268	244	-	
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.
1.3.1	Unprotected Steel (Bare & Coated) (#years to complete)	28	23	22	21	-	Optional: # yrs by pipe type.
1.3.2	Cast Iron / Wrought Iron (#years to complete)	14	9	8	7	-	Optional: # yrs by pipe type.
2	Distribution CO ₂ e Fugitive Emissions						Fugitive methane emissions (not CO ₂ combustion emissions) stated as CO ₂ e, as reported to EPA under 40 CFR 98, Subpart W, sections 98.236(a)(3)(i)(D), 98.236(i)(1)(v), and 98.236(i)(2)(v)(B) - i.e., this is Subpart W methane emissions as input in row 2.2.1 below and converted to CO ₂ e 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. <u>Calculated value based on mt CH₄ input in the 2.2.1 (below).</u>
2.1	CO ₂ e Fugitive Methane Emissions from Gas Distribution Operations (metric tons)	202,000	173,025	161,975	160,400	-	
2.2	CH ₄ Fugitive Methane Emissions from Gas Distribution Operations (metric tons)	8,080	6,921	6,479	6,416	-	INPUT VALUE (total mt CH ₄) as explained in definition above. Subpart W input is CH ₄ (mt).
2.2.1	CH ₄ Fugitive Methane Emissions from Gas Distribution Operations (MMSCF/year)	421	360	337	334	-	
2.3	Annual Natural Gas Throughput from Gas Distribution Operations in thousands of standard cubic feet (Mscf/year)	151,352,267	247,550,209	273,499,749	312,148,709	-	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-GRRR 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)	143,785	235,173	257,806	296,541	-	
2.4	Fugitive Methane Emissions Rate (MMscf of Methane Emissions per MMscf of Methane Throughput)	0.29%	0.15%	0.13%	0.11%	#DIV/0!	$\frac{E_c}{TPC} = \frac{\text{tonnes CH}_4}{\text{MMscf gas}} \times \frac{10^6 \text{ g CH}_4}{\text{tonne CH}_4} \times \frac{\text{g mole CH}_4}{16 \text{ g CH}_4} \times \frac{\text{g mol Nat.Gas}}{0.95 \text{ g mol CH}_4} \times \frac{\text{scf gas}}{1.198 \text{ g mol gas}} \times \frac{\text{MMscf gas emissions}}{10^6 \text{ scf gas}} =$ $\frac{\text{MMscf gas emissions}}{\text{MMscf gas throughput}} = 9\%$