



Gas Company ESG/Sustainability Quantitative Information

Parent Company: Southwest Gas Holdings
Operating Company(s): Southwest Gas Corporation
Business Type(s): LDC
State(s) of Operation: California, Arizona, Nevada
Regulatory Environment: Regulated
Report Date: 2019

Ref. No.	Refer to the "Definitions" column for more information on each metric.	Baseline 2015	Previous Year 2017	Last Year 2018	Current Year 2019	Definitions
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Natural Gas Distribution

Ref. No.	Metric	Baseline 2015	Previous Year 2017	Last Year 2018	Current Year 2019	Definitions
1	METHANE EMISSIONS AND MITIGATION FROM DISTRIBUTION MAINS					All methane leak sources per 98.232 (j) (1-6) are included for Distribution. Combustion sources are excluded. CO₂ is excluded.
1.1	Number of Gas Distribution Customers	1,927,107	1,984,749	2,017,662	2,051,492	
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)	23,973	24,435	24,976	25,473	
1.2.2	Cathodically Protected Steel - Bare & Coated (miles)	6,699	6,618	6,519	6,371	
1.2.3	Unprotected Steel - Bare & Coated (miles)	0	0	0	0	
1.2.4	Cast Iron / Wrought Iron - without upgrades (miles)	0	0	0	0	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	Plan/Commitment to Replace / Upgrade Remaining Miles of Distribution Mains (# years to complete)					Optional: # yrs by pipe type.
1.3.1	Unprotected Steel (Bare & Coated) (# years to complete)	0	0	0	0	Optional: # yrs by pipe type.
1.3.2	Cast Iron / Wrought Iron (# years to complete)	0	0	0	0	
2	Distribution CO ₂ e Fugitive Emissions					<u>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)(x)(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</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 CH₄ input in the 2.2 (below).</u>
2.1	CO ₂ e Fugitive Methane Emissions from Gas Distribution Operations (metric tons)	142,959	144,661	147,433	149,333	
2.2	CH ₄ Fugitive Methane Emissions from Gas Distribution Operations (metric tons)	5,718	5,786	5,897	5,973	<u>INPUT VALUE (total mt CH₄) as explained in definition above. Subpart W input is CH₄ (mt).</u>
2.2.1	CH ₄ Fugitive Methane Emissions from Gas Distribution Operations (MMSCF/year)	298	301	307	311	
2.3	Annual Natural Gas Throughput from Gas Distribution Operations in thousands of standard cubic feet (Mscf/year)	205,402,775	201,103,927	214,609,693	230,916,156	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)	195,133	191,049	203,879	219,370	
2.4	Fugitive Methane Emissions Rate (Percent MMscf of Methane Emissions per MMscf of Methane Throughput)	0.15%	0.16%	0.15%	0.14%	Calculated annual metric: (MMSCF methane emissions/MMSCF methane throughput)