



Gas Company ESG/Sustainability Quantitative Information

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

National Fuel Gas Co.
National Fuel Gas Distribution Corp. (NFGDC)
Natural Gas Utility
New York and Pennsylvania
Regulated

Ref. No.	Refer to the "Definitions" column for more information on each metric.	2017	2018	2019	% change from 2018	Comments
Natural Gas Distribution						
1	METHANE EMISSIONS AND MITIGATION FROM DISTRIBUTION MAINS					
1.1	Number of Gas Distribution Customers	743,500	741,000	743,400	0.3%	Customers at end of fiscal year. Data for 2018 corrected from prior report.
1.2	Distribution Mains and Services in Service					
1.2.1	Plastic (miles)	8,691	8,831	9,003	1.9%	
1.2.2	Cathodically Protected Steel - Bare & Coated (miles)	3,176	3,213	3,202	-0.3%	
1.2.3	Unprotected Steel - Bare & Coated (miles)	2,273	2,128	2,021	-5.0%	
1.2.4	Cast Iron / Wrought Iron - without upgrades (miles)	415	384	355	-7.6%	NFGDC has no cast iron mains remaining in its Pennsylvania operating territory and 34 miles of cast iron overall as of 12/31/19.
1.2.5	Total Mains (miles)	14,555	14,556	14,581	0.2%	
1.2.6	Plastic Services	536,332	541,933	547,354	1.0%	
1.2.7	Protected Steel Services	52,657	51,688	50,582	-2.1%	
1.2.8	Unprotected Steel Services	63,564	60,004	56,809	-5.3%	
1.2.9	Total Services	652,553	653,625	654,745	0.2%	
1.3	Plan/Commitment to Replace / Upgrade Remaining Miles of Distribution Mains (# years to complete)					As a participant in the EPA's Methane Challenge, NFGDC has committed to a minimum annual replacement rate of 3% for unprotected steel and cast/wrought iron mains along with associated service lines. Since 2012 NFGDC has retired 780 miles of unprotected steel and 184 miles of cast/wrought iron mains along with 28,030 associated service lines.
1.3.1	Unprotected Steel (Bare & Coated) (# years to complete)	25	24	23		
1.3.2	Cast Iron / Wrought Iron (# years to complete)	5 (CI only)	4 (CI only)	3 (CI only)		Wrought iron is included in the unprotected steel replacement rate
2	Distribution CO₂e Fugitive Emissions					
2.1	CO ₂ e Fugitive Methane Emissions from Gas Distribution Operations (metric tons)	271,613	257,815	247,705	-3.9%	
2.2	CH ₄ Fugitive Methane Emissions from Gas Distribution Operations (metric tons)	10,865	10,313	9,908	-3.9%	
2.2.1	CH ₄ Fugitive Methane Emissions from Gas Distribution Operations (MMSCF/year)	566	537	516	-3.9%	
2.3	Annual Natural Gas Throughput from Gas Distribution Operations in thousands of standard cubic feet (Mscf/year)	133,307,050	152,123,551	147,546,767	-3.0%	
2.3.1	Annual Methane Gas Throughput from Gas Distribution Operations in millions of standard cubic feet (MMscf/year)	126,642	144,517	140,169	-3.0%	
2.4	Fugitive Methane Emissions Rate Percent (MMscf of Methane Emissions per MMscf of Methane Throughput)	0.447%	0.372%	0.368%	-1.0%	<u>Note:</u> Emissions estimates are computed from activity data (miles of main, number of services) and emission factors that are unrelated to throughput. As such, users should consider 'emissions rate' in the context of other metrics
Natural Gas Utility Transmission and Storage						
NFGDC does not meet the reporting threshold for this segment						
Natural Gas Utility Gathering and Boosting						
NFGDC does not meet the reporting threshold for this segment						

Additional Metrics (Optional)

<i>Heating Degree Days, Buffalo, NY</i>	6,001	6,514	6,633	1.8%	Provides additional context to throughput and emissions rate. Source: NYSERDA website (https://www.nyserda.ny.gov/About/Publications/EA-Reports-and-Studies/Weather-Data/Monthly-Cooling-and-Heating-Degree-Day-Data#Buffalo) accessed 10/29/20.
<i>Utility Fugitive Methane Emissions (as CO₂e) per Total Miles of Main [MT CO₂e/mile]</i>	18.7	17.7	17.0	-4.1%	Natural Gas Distribution Section Item 2.1 divided by sum of 1.2.1 to 1.2.4
<i>Indirect (End-User/Scope 3) Emissions [MT CO₂]</i>	6,615,365	7,180,490	7,170,993	-0.1%	As reported to EPA, 40 CFR Part 98, Subpart NN