

Gas Company ESG/Sustainability Quantitative Information



Parent Company: Berkshire Hathaway Energy Company  
Operating Company(s): Northern Natural Gas Company  
Report Date: As of and for the year ended December 31, 2022  
Disclaimer: Data included herein is based on information available as of April 25, 2023, and is subject to change without notice should new or additional information be obtained.

	Last Year	Current Year		
Refer to the "Definitions" column for more information on each metric.	2021	2022	% Change	Definitions
Natural Gas Transmission and Storage <sup>(1)</sup>				
<i>Below current year natural gas transmission and storage methane emissions metrics include methane from combustion and have been calculated using the Natural Gas Sustainability Initiative (NGSI) Methane Emissions Intensity Protocol v 1.0 unless otherwise indicated.</i>				
Onshore Natural Gas Transmission Compression Methane Emissions				
Total Natural Gas Transmission Compression Methane Emissions (metric tons/year)	5,886	5,592	(5.0)%	
Total Natural Gas Transmission Compression Methane Emissions (CO2e/year)	147,145	139,797	(5.0)%	Global Warming Potential (GWP) = 25 per 40 CFR Table A-1 To Subpart A Of Part 98
Total Natural Gas Transmission Compression Methane Emissions (MSCF/year)	306,551	291,243	(5.0)%	Density of Methane = 0.0192 kg/ft3 per 40 CFR Sub W EQ. W-36
Natural Gas Storage Methane Emissions				
Total Natural Gas Storage Methane Emissions (metric tons/year)	1,977	1,923	(2.7)%	
Total Natural Gas Storage Methane Emissions (CO2e/year)	49,417	48,073	(2.7)%	Global Warming Potential (GWP) = 25 per 40 CFR Table A-1 To Subpart A Of Part 98
Total Natural Gas Storage Methane Emissions (MSCF/year)	102,951	100,151	(2.7)%	Density of Methane = 0.0192 kg/ft3 per 40 CFR Sub W EQ. W-36
Onshore Natural Gas Transmission Pipeline Methane Emissions				
Total Natural Gas Transmission Pipeline Methane Emissions (metric tons/year)	5,301	1,773	(66.6)%	
Total Natural Gas Transmission Pipeline Methane Emissions (CO2e/year)	132,523	44,320	(66.6)%	Global Warming Potential (GWP) = 25 per 40 CFR Table A-1 To Subpart A Of Part 98
Total Natural Gas Transmission Pipeline Methane Emissions (MSCF/year)	276,090	92,332	(66.6)%	Density of Methane = 0.0192 kg/ft3 per 40 CFR Sub W EQ. W-36
Summary and Metrics				
Total Transmission and Storage Methane Emissions (MMSCF/year)	686	484	(29.4)%	
Annual Natural Gas Throughput from Gas Transmission and Storage Operations (MSCF/year)	1,241,823,000	1,453,662,000	17.1 %	U.S. Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA) in Form F 7100.2-1 Part C of the Annual Report for Natural Gas and Other Gas Transmission and Gathering Pipeline Systems
Annual Methane Throughput from Gas Transmission and Storage Operations (MMSCF/year)	1,103,981	1,302,481	18.0 %	Calculated using 89.6% CH4 content in natural gas.
Methane Emissions Intensity Metric (Percent MMscf of Methane Emissions per MMscf of Methane Throughput)	0.0621 %	0.0371 %	(40.2)%	

Comments

(1) Natural gas transmission and storage methane emissions metrics include methane from combustion and have been calculated using the Natural Gas Sustainability Initiative (NGSI) Methane Emissions Intensity Protocol v 1.0 unless otherwise indicated