

Gas Company ESG/Sustainability Quantitative Information



Parent Company: Berkshire Hathaway Energy Company

Operating Company(s): MidAmerican Energy Company

Report Date: As of and for the year ended December 31, 2020

Disclaimer: Data included herein is based on information available as of April 29, 2021, and is subject to change without notice should new or additional information be obtained.

Refer to the "Definitions" column for more information on each metric.	Last Year	Current Year	% Change	Definitions
	2019	2020		

Natural Gas Distribution

METHANE EMISSIONS AND MITIGATION FROM DISTRIBUTION MAINS					<u>All methane leak sources per 98.232 (i) (1-6) are included for Distribution. Combustion sources are excluded. CO2 is excluded.</u>
Number of Gas Distribution Customers ⁽¹⁾	765,602	773,800	1.1 %		
Distribution Mains in Service	13,004	13,085	0.6 %		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.
Plastic (miles)	7,960	8,069	1.4 %		
Cathodically Protected Steel - Bare & Coated (miles)	4,896	4,869	(0.6)%		
Unprotected Steel - Bare & Coated (miles)	148	147	(0.7)%		
Cast Iron / Wrought Iron - without upgrades (miles)	-	-	-		
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.
Unprotected Steel (Bare & Coated) (# years to complete) ⁽²⁾	-	-	-		Optional: # yrs by pipe type.
Cast Iron / Wrought Iron (# years to complete)	-	-	-		Optional: # yrs by pipe type.
Distribution CO2e Fugitive Emissions					
CO2e Fugitive Methane Emissions from Gas Distribution Operations (metric tons)	92,560	92,606	0.1 %		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)(iv)(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. 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. Calculated value based on mt CH4 input in the 2.2 (below).
CH4 Fugitive Methane Emissions from Gas Distribution Operations (metric tons)	3,702	3,704	0.1 %		INPUT VALUE (total mt CH4) as explained in definition above. Subpart W input is CH4 (mt).
CH4 Fugitive Methane Emissions from Gas Distribution Operations (MMSCF/year)	193	193	0.1 %		
Annual Natural Gas Throughput from Gas Distribution Operations in thousands of standard cubic feet (Mscf/year)	189,269,160	179,476,132	(5.2)%		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).
Annual Methane Gas Throughput from Gas Distribution Operations in millions of standard cubic feet (MMscf/year)	179,806	170,502	(5.2)%		
Fugitive Methane Emissions Rate (Percent MMscf of Methane Emissions per MMscf of Methane Throughput)	0.1072%	0.1132%	5.5%		Calculated annual metric: (MMSFC methane emissions/MMSCF methane throughput)

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Natural Gas Transmission and Storage ⁽³⁾				
<i><u>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.</u></i>				
Onshore Natural Gas Transmission Compression Methane Emissions				
Total Natural Gas Transmission Compression Methane Emissions (metric tons/year)	NA	NA	-	
Total Natural Gas Transmission Compression Methane Emissions (CO2e/year)	NA	NA	-	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)	NA	NA	-	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)	NA	NA	-	
Total Natural Gas Storage Methane Emissions (CO2e/year)	NA	NA	-	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)	NA	NA	-	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)	NA	NA	-	
Total Natural Gas Transmission Pipeline Methane Emissions (CO2e/year)	NA	NA	-	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)	NA	NA	-	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)	NA	NA	-	
Annual Natural Gas Throughput from Gas Transmission and Storage Operations (MSCF/year)	NA	NA	-	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)	NA	NA	-	
Methane Emissions Intensity Metric (Percent MMscf of Methane Emissions per MMscf of Methane Throughput)	NA	NA	-	

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Natural Gas Gathering and Boosting				
METHANE EMISSIONS				
Gathering and Boosting Pipelines, Blow Down Volumes, and Emissions	NA	NA	-	This metric is collected to support calculations under EPA 40 CFR 98, Subpart W.
Total Miles of Gathering Pipeline Operated by gas utility (miles)	NA	NA	-	
Volume of Gathering Pipeline Blow Down Emissions (scf)	NA	NA	-	
Gathering Pipeline Blow-Down Emissions outside storage and compression facilities (metric tons CO2e)	NA	NA	-	
CO2e COMBUSTION EMISSIONS FOR GATHERING & BOOSTING COMPRESSION				
CO2e Emissions for Gathering & Boosting Compression Stations (metric tons)	NA	NA	-	CO2 combustion emissionsas reported to EPA under 40 CFR 98, Subpart C, as directed in Subpart W, 98.232[k].
	NA	NA	-	
CONVENTIONAL COMBUSTION EMISSIONS FROM GATHERING & BOOSTING COMPRESSION				
Emissions reported for all permitted sources (minor or major)	NA	NA	-	The number of permitted sources for conventional emissions may not be the same number of sources reporting under the EPA GHG reporting rule. Companies may wish to describe which, or how many, sources are included in the conventional pollutants data and whether the CO2e data reported includes all of these sources.
	NA	NA	-	
NOx (metric tons per year)	NA	NA	-	
VOC (metric tons per year)	NA	NA	-	
Comments				
(1) Natural gas distribution customer count includes both the distribution and transport customers of MidAmerican Energy Company.				
(2) Replacement is targeted under the MidAmerican Energy Company distribution integrity management plan which is a priority-based program focusing on relative risk.				
(3) Emissions from the MidAmerican Energy Company transmission and storage system are not applicable as they are below the reporting threshold for the USEPA GHG Subpart C and Subpart W.				