Gas Company ESG/Sustainability Quantitative Information

Parent Company: Berkshire Hathaway Energy Company

Operating Company(s): BHE GT&S, LLC, Northern Natural Gas Company, Kern River Gas Transmission Company, MidAmerican Energy Company and Sierra Pacific Power Company

Report Date: As of and for the year ended December 31, 2023

Disclaimer: Data included herein is based on information available as of April 25, 2024, and is subject to change without notice should new or additional information be obtained.



Refer to the Definitions Column for more mornauon or each metric.	2022	2023	% Change	Definitions
Natural Gas Distribution				
				All methane leak sources per 98.232 (i) (1-6) are included for Distribution. Combustion sources are
				excluded. CO2 is excluded.
METHANE EMISSIONS AND MITIGATION FROM DISTRIBUTION MAINS				
Number of Gas Distribution Customers	968,121	978,735	1.1 %	
Distribution Mains in Service	15,385	15,578	1.3 %	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)	9,713	9,895	1.9 %	
Cathodically Protected Steel - Bare & Coated (miles)	5,529	5,542	0.2 %	
Unprotected Steel - Bare & Coated (miles)	143	141	(1.4)%	
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 catholdically unprotected steel mains, and cast iron/wrought iron mains, consistent with applicable state utility commission authorizations.
Unprotected Steel (Bare & Coated) (# years to complete) ⁽¹⁾	-	_	_	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)	103,352	103,421	0.1%	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
CH4 Fugitive Methane Emissions from Gas Distribution Operations (metric tons)	4,134	4,137	0.1%	based on mt CH4 input in the 2.2 (below). 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)	215	215	0.1%	
Annual Natural Gas Throughput from Gas Distribution Operations in thousands of standard cubic feet (Mscf/year)	202,478,918	196,670,751	(2.9)%	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(a)(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)	192,355	186,837	(2.9)%	,
Fugitive Methane Emissions Rate (Percent MMscf of Methane Emissions per MMscf of Methane Throughput)	0.1119%	0.1153%	3.0 %	Calculated annual metric: (MMSFC methane emissions/MMSCF methane throughput)
Liquefied Natural Gas Import/Export				
				Below current year natural gas LNG Import/Export methane emissions metrics include methane from combustion and have been calculated using GHGRP Part 98 methodologies unless otherwise indicated.
LNG Import/Export Methane Emissions				
Total LNG Import/Export Methane Emissions (metric tons/year)	186	140	(24.9)%	
Total LNG Import/Export Methane Emissions (CO2e/year)				Global Warming Potential (GWP) = 25 per 40 CFR Table A-1 To Subpart A Of Part 98
Total LNG Import/Export Methane Emissions (GOZE/year) Total LNG Import/Export Methane Emissions (MSCF/year)	4,646	3,488	(24.9)%	Density of Methane = 0.0192 kg/ft3 per 40 CFR Sub W EQ. W-36
	9,679	7,267	(24.9)%	
Summary and Metics				
Total LNG Import/Export Methane Emissions (MMSCF/year)	10	7	(24.9)%	
Annual Natural Gas Throughput for LNG Import/Export Operations (MSCF/year)	270,326,271	279,304,076	3.3 %	
Annual Methane Throughput for LNG Import/Export Operations (MMSCF/year)	256,810	265,339	3.3 %	

Current Year

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Refer to the "Definitions" column for more information on each metric.	2022		2023	% Change	Definitions
atural Gas Transmission and Storage					
					Below current year natural gas transmission and storage methane emissions metrics include methan
					from combustion and have been calculated using the Natural Gas Sustainability Initiative (NGSI)
					Methane Emissions Intensity Protocol v 1.0 unless otherwise indicated.
nshore Natural Gas Transmission Compression Methane Emissions					
otal Natural Gas Transmission Compression Methane Emissions (metric tons/year)					
		12,174	10,599	(12.9)%	Clobal Maraning Datastial (CMD) - 25 par 40 CED Table A 1 To Culturat A Of Dart 00
Fotal Natural Gas Transmission Compression Methane Emissions (CO2e/year)	3	04,349	264,980	(12.9)%	Global Warming Potential (GWP) = 25 per 40 CFR Table A-1 To Subpart A Of Part 98
otal Natural Gas Transmission Compression Methane Emissions (MSCF/year)	6	34,061	552,042	(12.9)%	Density of Methane = 0.0192 kg/ft3 per 40 CFR Sub W EQ. W-36
latural Gas Storage Methane Emissions					
otal Natural Gas Storage Methane Emissions (metric tons/year)		5,439	4,977	(8.5)%	
otal Natural Gas Storage Methane Emissions (CO2e/year)	1	35,986	124,425	(8.5)%	Global Warming Potential (GWP) = 25 per 40 CFR Table A-1 To Subpart A Of Part 98
otal Natural Gas Storage Methane Emissions (MSCF/year)		83,305	259,219	(8.5)%	Density of Methane = 0.0192 kg/ft3 per 40 CFR Sub W EQ. W-36
		,		(0.0)	
nshore Natural Gas Transmission Pipeline Methane Emissions					
otal Natural Gas Transmission Pipeline Methane Emissions (metric tons/year)		4,690	3,535	(24.6)%	
otal Natural Gas Transmission Pipeline Methane Emissions (CO2e/year)	1	17,255	88,379	(24.6)%	Global Warming Potential (GWP) = 25 per 40 CFR Table A-1 To Subpart A Of Part 98
otal Natural Gas Transmission Pipeline Methane Emissions (MSCF/year)	2	44,281	184,122	(24.6)%	Density of Methane = 0.0192 kg/ft3 per 40 CFR Sub W EQ. W-36
ummary and Metrics					
otal Transmission and Storage Methane Emissions (MMSCF/year)		1,162	995	(14.3)%	
nnual Natural Gas Throughput from Gas Transmission and Storage Operations (MSCF/year)	4,643,5	28 661	4,610,786,268	(0.7)%	U.S. Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA) in Form F 7100.2-1 Part C of the Annual R
amountation dus initiograph from dus initionistic des operations (inition) years	-1,0-10,0	20,001	4,010,700,200	(0.7770	for Natural Gas and Other Gas Transmission and Gathering Pipeline Systems
nnual Methane Throughput from Gas Transmission and Storage Operations (MMSCF/year)	4,4	11,352	4,303,435	(2.4)%	Refer to BHE GT&S, Northern Natural Gas Company and Kern River Gas Company's Gas Company ESG/Sustainability Quantitative Information f specific CH4 content factor used by each company.
Methane Emissions Intensity Metric (Percent MMscf of Methane Emissions per MMscf of Methane Throughput)	0.	0263 %	0.0231 %	(12.2)%	specific city content racio asca by cater company.
latural Gas Processing					
aculal Gas Flocessing					Below current year natural gas processing methane emissions metrics include methane from combus
					and have been calculated using the Natural Gas Sustainability Initiative (NGSI) Methane Emissions
					Intensity Protocol v 1.0 unless otherwise indicated.
rocessing Methane Emissions					
otal Natural Gas Processing Methane Emissions (metric tons/year)		118	119	0.8 %	
otal Natural Gas Processing Methane Emissions (CO2e/year)		2,943	2,966	0.8 %	Global Warming Potential (GWP) = 25 per 40 CFR Table A-1 To Subpart A Of Part 98
otal Natural Gas Processing Methane Emissions (MSCF/year)		6,131	6,178	0.8 %	Density of Methane = 0.0192 kg/ft3 per 40 CFR Sub W EQ. W-36
ummary and Metrics					
otal Gas Processing Methane Emissions (MMSCF/year)		6	6	0.8 %	
nnual Natural Gas Throughput from Gas Processing Operations (MSCF/year)	48,0	25,487	57,057,017	18.8 %	
innual Methane Throughput from Gas Processing Operations (MMSCF/year)		39,381	48,556	23.3 %	
Annual Natural Gas Liquids Processed from Natural Gas Processing Operations (bbl)	2,1	66,489	1,999,574	(7.7)%	
Methane Emissions Intensity Metric (Percent MMscf of Methane Emissions per MMscf of Methane Throughput)	0	0146%	0.0121%	(17.2)%	

Last Year

Current Year

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effect to the Definitions Column for more information of each metric.	2022	2023	% Change	Definitions
atural Gas Gathering and Boosting				
				Below current year natural gas gathering and boosting 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.
athering and Boosting Methane Emissions				
tal Natural Gas Gathering and Boosting Methane Emissions (metric tons/year)	35	376	5.8 %	
otal Natural Gas Gathering and Boosting Methane Emissions (CO2e/year)	8,89	9,408	5.8 %	Global Warming Potential (GWP) = 25 per 40 CFR Table A-1 To Subpart A Of Part 98
tal Natural Gas Gathering and Boosting Methane Emissions (MSCF/year)	18,52	19,599	5.8 %	Density of Methane = 0.0192 kg/ft3 per 40 CFR Sub W EQ. W-36
mmary and Metrics				
otal Natural Gas Gathering and Boosting Methane Emissions (MMSCF/year)	3	9 20	5.8 %	
nnual Natural Gas Transported by Natural Gas Gathering and Boosting Operations (MSCF/year)	10,771,54	9,519,501	(11.6)%	
nnual Methane Throughput from Natural Gas Gathering and Boosting Operations (MMSCF/year)	8,80	7,825	(11.1)%	
nnual Hydrocarbon Liquids Transported by Natural Gas Gathering and Boosting Operations (bbl)	2,143,66	1,864,892	(13.0)%	
ethane Emissions Intensity Metric (Percent MMscf of Methane Emissions per MMscf of Methane Throughput)	0.1091	6 0.1305%	19.5 %	
atural Gas Production				
atural Gas Production				Below current year natural gas production methane emissions metrics include methane from combi
				and have been calculated using the Natural Gas Sustainability Initiative (NGSI) Methane Emissions
				Intensity Protocol v 1.0 unless otherwise indicated.
roduction Methane Emissions				
otal Natural Gas Production Methane Emissions (metric tons/year)	52	1 537	2.5 %	
otal Natural Gas Production Methane Emissions (CO2e/year)	13,09	1 13,423	2.5 %	Global Warming Potential (GWP) = 25 per 40 CFR Table A-1 To Subpart A Of Part 98

27

729

9,598

3.6691%

887,764

28

2,240,294

1,839

9.807

1.4898%

2.5 %

152.4 %

152.4 %

2.2 %

(59.4)%

Current Year

Comments

ummary and Metrics

Total Natural Gas Production Methane Emissions (MMSCF/year)

Annual Natural Gas Throughput from Gas Production Operations (MSCF/year)

Annual Methane Throughput from Gas Production Operations (MMSCF/year)

(1) Replacement is targeted under the MidAmerican Energy Company distribution integrity management plan which is a priority-based program focusing on relative risk

(2) 2021 natural gas distribution emissions do not include the Sierra Pacific Power Company distribution system

Methane Emissions Intensity Metric (Percent MMscf of Methane Emissions per MMscf of Methane Throughput)

innual Produced Oil and Condensate Throughput from Natural Gas Production Operations (bbl)