

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, 2018*
 Disclaimer: *Data included herein is based on information available as of June 30, 2020, 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.	Current Year 2018	Definitions
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Natural Gas Distribution

		<i>All methane leak sources per 98.232 (i) (1-6) are included for Distribution. Combustion sources are excluded. CO₂ is excluded.</i>
Methane Emissions and Mitigation from Distribution Mains		
Number of Gas Distribution Customers	759,205 ⁽¹⁾	
Distribution Mains in Service	12,861	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 (<i>miles</i>)	7,797	
Cathodically Protected Steel - Bare & Coated (<i>miles</i>)	4,912	
Unprotected Steel - Bare & Coated (<i>miles</i>)	152	
Cast Iron / Wrought Iron - without upgrades (<i>miles</i>)	-	
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) (<i># years to complete</i>)	-	⁽²⁾ Optional: # yrs by pipe type.
Cast Iron / Wrought Iron (<i># years to complete</i>)	-	Optional: # yrs by pipe type.
Distribution CO₂e Fugitive Emissions		
CO₂e Fugitive Methane Emissions from Gas Distribution Operations (<i>metric tons</i>)	92,787	<u>Fugitive methane emissions (not CO₂ combustion emissions) stated as CO₂e, as reported to EPA under 40 CFR 98, Subpart W, sections 98.236(a)(3)(ix)(D), 98.236(r)(1)(v), and 98.236(r)(2)(v)(B) - i.e., this is Subpart W methane emissions as input 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 below.</u>
CH₄ Fugitive Methane Emissions from Gas Distribution Operations (<i>metric tons</i>)	3,711	<u>INPUT VALUE (total mt CH₄) as explained in definition above. Subpart W input is CH₄ (mt).</u>
CH ₄ Fugitive Methane Emissions from Gas Distribution Operations (MMSCF/year)	193	
Annual Natural Gas Throughput from Gas Distribution Operations in thousands of standard cubic feet (<i>Mscf/year</i>)	180,123,590	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)	171,117	
Fugitive Methane Emissions Rate	0.1130%	Calculated annual metric: (MMSFC methane emissions/MMSCF methane throughput)

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Natural Gas Transmission and Storage ⁽³⁾

		<u>All methane leak sources per 98.232 (e) (1-8), (f)(1-8), and (m) are included for Transmission and Storage. Combustion sources are excluded. CO₂ and N₂O are excluded.</u>
Transmission Pipelines, Blow Down Volumes, and Fugitive Emissions		
Total Miles of Transmission Pipeline Operated by gas utility (miles)	NA	
Volume of Transmission Pipeline Blow Down Emissions - outside storage and compression facilities:		As reported to EPA under 40 CFR 98, Subpart W.
Scf natural gas - pipeline throughput	NA	
Scf natural gas - pipeline blowdowns	NA	
Metric tons CO ₂ e - pipeline blowdowns	NA	
Underground Natural Gas Storage Emissions		
Storage Compressor Station Emissions (metric tons CO ₂ e)	NA	As reported to EPA under 40 CFR 98, Subpart W.
Storage Facility Wellhead Component Fugitive Emissions (metric tons of CO ₂ e)	NA	Utilizing EPA emissions factors, as reported to EPA under Subpart W, 40 CFR 98.236, on the e-GRRT integrated reporting form, "Equipment Leaks Surveys and Population Counts [98.236 (q, r)]" tab.
CO₂e Emissions from Transmission and Storage Compression		
CO ₂ e Emissions from Transmission Pipelines (metric tons)	NA	CO ₂ combustion emissions as reported to EPA under 40 CFR 98, Subpart C and methane emissions stated as CO ₂ e as reported under Subpart W.
CO ₂ e Emissions for Storage Facilities (metric tons)	NA	CO ₂ combustion emissions as reported to EPA under 40 CFR 98, Subpart C and methane emissions stated as CO ₂ e as reported under Subpart W.
Conventional Air Emissions from Transmission and Storage Compression		
Emissions reported for all permitted sources (minor or major)		The number of permitted sources for conventional emissions may not be the same number of sources reporting under the EPA GHG reporting rule.
NO _x (metric tons per year)	NA	Companies may wish to describe which, or how many, sources are included in the conventional pollutants data and whether the CO ₂ e data reported includes all of these sources.
VOC (metric tons per year)	NA	

Natural Gas Gathering and Boosting

Methane Emissions		
Gathering and Boosting Pipelines, Blow Down Volumes, and Emissions		
Total Miles of Gathering Pipeline Operated by gas utility (miles)	NA	
Volume of Gathering Pipeline Blow Down Emissions (scf)	NA	This metric is collected to support calculations under EPA 40 CFR 98, Subpart W.
Gathering Pipeline Blow-Down Emissions outside storage and compression facilities (metric tons CO ₂ e)	NA	
CO₂e Combustion Emissions from Gathering and Boosting Compression		
CO ₂ e Emissions for Gathering & Boosting Compression Stations (metric tons)	NA	CO ₂ combustion emissions as reported to EPA under 40 CFR 98, Subpart C, as directed in Subpart W, 98.232(k).
Conventional Combustion Emissions from Gathering and Boosting Compression		
Emissions reported for all permitted sources (minor or major)		The number of permitted sources for conventional emissions may not be the same number of sources reporting under the EPA GHG reporting rule.
NO _x (metric tons per year)	NA	Companies may wish to describe which, or how many, sources are included in the conventional pollutants data and whether the CO ₂ e data reported includes all of these sources.
VOC (metric tons per year)	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.