ESG/Sustainability Quantitative Information

 Parent Company:
 Berkshire Hathaway Energy Company

 Operating Company(s):
 Kern River Gas Transmission Company

 Report Date:
 As of and for the year ended December 31, 2018

Disclaimer: Data included herein is based on information available as of October 28, 2019, 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

Natural Gas Distribution		
		All methane leak sources per 98.232 (i) (1-6) are included for Distribution. Combustion sources are
		excluded. CO ₂ is excluded.
Methane Emissions and Mitigation from Distribution Mains		
Number of Gas Distribution Customers	NA	
Distribution Mains in Service	NA	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)	NA	
Cathodically Protected Steel - Bare & Coated (miles)	NA	
Unprotected Steel - Bare & Coated (miles)	NA NA	
Cast Iron / Wrought Iron - without upgrades (miles)	NA	
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)	NA	Optional: # yrs by pipe type.
Cast Iron / Wrought Iron (# years to complete)	NA	Optional: # yrs by pipe type.
Distribution CO2e Fugitive Emissions		
CO2e Fugitive Methane Emissions from Gas Distribution Operations (metric tons)	NA	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)(w)(0), 98.236(r)(13)(w), and 98.236(r)(2)(w)(8)i.e., this is <u>Subpart W</u> methane emissions as input below and converted to <u>CO2e</u> 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. <u>Calculated value based on mt CH4 input below</u> .
CH4 Fugitive Methane Emissions from Gas Distribution Operations (metric tons)	NA	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)	NA	
Annual Natural Gas Throughput from Gas Distribution Operations in thousands of standard cubic feet (Mscf/year)	NA	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)	NA	
Fugitive Methane Emissions Rate	NA	Calculated annual metric: (MMSFC methane emissions/MMSCF methane throughput)



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Current Year Definitions Refer to the "Definitions" column for more information on each metric. 2018 **Natural Gas Transmission and Storage** 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. CO , and N , O are excluded. Transmission Pipelines, Blow Down Volumes, and Fugitive Emissions 1.417 Total Miles of Transmission Pipeline Operated by gas utility (miles) As reported to EPA under 40 CFR 98, Subpart W. Volume of Transmission Pipeline Blow Down Emissions - outside storage and compression facilities (1): Scf natural gas - pipeline throughput NA Scf natural gas - pipeline blowdowns NA Metric tons CO2e - pipeline blowdowns NA Underground Natural Gas Storage Emissions (2) Storage Compressor Station Emissions (metric tons CO2e) NA As reported to FPA under 40 CFR 98, Subpart W. Storage Facility Wellhead Component Fugitive Emissions (metric tons of CO2e) Utilizing EPA emissions factors, as reported to EPA under Subpart W, 40 CFR 98.236, on the e-GRRT integrated reporting form, "Equipment Leaks NA Surveys and Population Counts [98,236 (g, r)]" tab. CO2e Emissions from Transmission and Storage Compression CO2e Emissions from Transmission Pipelines (metric tons) CO2 combustion emissions as reported to EPA under 40 CFR 98, Subpart C and methane emissions stated as CO2e as reported under Subpart W. 809.968 CO2e Emissions for Storage Facilities (metric tons) (2) CO2 combustion emissions as reported to EPA under 40 CFR 98, Subpart C and methane emissions stated as CO2e 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. Companies may wish to describe which, or how many, sources are included in the conventional pollutants data and whether the CO2e data reported 273 NOx (metric tons per year) includes all of these sources. VOC (metric tons per year) **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)

Volume of Gathering Pipeline Blow Down Emissions (scf)

Gathering Pipeline Blow-Down Emissions outside storage and compression facilities (metric tons CO2e)

NA

This metric is collected to support calculations under EPA 40 CFR 98, Subpart W.

NA

CO2e Combustion Emissions from Gathering and Boosting Compression

CO2e Emissions for Gathering & Boosting Compression Stations (metric tons)

NA CO2 combustion emissionsas 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)

NOX (metric tons per year)

NOC (metric tons per year)

Comments

- (1) The blowdown emissions from the Kern River Gas Transmission system are not applicable as they are below the reporting threshold for the USEPA GHG Subpart W.
- (2) The storage emissions from the Kern River Gas Transmission system are not applicable as they are below the reporting threshold for the USEPA GHG Subpart C and Subpart W.