

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 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 |
|--|----------------------|-------------|

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 | 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 (<i>miles</i>) | NA | |
| Cathodically Protected Steel - Bare & Coated (<i>miles</i>) | NA | |
| Unprotected Steel - Bare & Coated (<i>miles</i>) | NA | |
| Cast Iron / Wrought Iron - without upgrades (<i>miles</i>) | 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 cathodically 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 | | |
| CO ₂ e Fugitive Methane Emissions from Gas Distribution Operations (<i>metric tons</i>) | NA | Fugitive methane emissions (not CO ₂ combustion emissions) stated as CO ₂ e, 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 CO ₂ e 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> |
| CH ₄ Fugitive Methane Emissions from Gas Distribution Operations (<i>metric tons</i>) | NA | INPUT VALUE (total mt CH ₄) as explained in definition above. Subpart W input is CH ₄ (mt). |
| CH ₄ Fugitive Methane Emissions from Gas Distribution Operations (MMSCF/year) | NA | |
| Annual Natural Gas Throughput from Gas Distribution Operations in thousands of standard cubic feet (<i>Mscf/year</i>) | 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-GRRR 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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Natural Gas Transmission and Storage

| <i>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.</i> | | |
|--|---------|---|
| Transmission Pipelines, Blow Down Volumes, and Fugitive Emissions | | |
| Total Miles of Transmission Pipeline Operated by gas utility (<i>miles</i>) | 1,417 | |
| Volume of Transmission Pipeline Blow Down Emissions - outside storage and compression facilities ⁽¹⁾ : | | 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⁽²⁾ | | |
| Storage Compressor Station Emissions (<i>metric tons CO₂e</i>) | NA | As reported to EPA under 40 CFR 98, Subpart W. |
| Storage Facility Wellhead Component Fugitive Emissions (<i>metric tons of CO₂e</i>) | 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 (<i>metric tons</i>) | 809,968 | 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 (<i>metric tons</i>) ⁽²⁾ | 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 (<i>metric tons per year</i>) | 248 | 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 (<i>metric tons per year</i>) | 33 | |

Natural Gas Gathering and Boosting

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|--|----|--|
| Methane Emissions | | |
| Gathering and Boosting Pipelines, Blow Down Volumes, and Emissions | | |
| Total Miles of Gathering Pipeline Operated by gas utility (<i>miles</i>) | NA | |
| Volume of Gathering Pipeline Blow Down Emissions (<i>scf</i>) | 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 (<i>metric tons CO₂e</i>) | NA | |
| CO₂e Combustion Emissions from Gathering and Boosting Compression | | |
| CO ₂ e Emissions for Gathering & Boosting Compression Stations (<i>metric tons</i>) | 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 (<i>metric tons per year</i>) | 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 (<i>metric tons per year</i>) | NA | |

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.