



Parent Company:  
Operating Company(s):  
Business Type(s):  
State(s) of Operation:  
Regulatory Environment:  
Report Date:

Ref. No.	Refer to t

## Natural Gas Distribution

- 1 METHANE EMISSIONS AND MITIGATION**
- 1.1 Number of Gas Distribution Customers
- 1.2 Distribution Mains in Service
  - 1.2.1 Plastic (*miles*)
  - 1.2.2 Cathodically Protected Steel - Bare & Coated (*miles*)
  - 1.2.3 Unprotected Steel - Bare & Coated (*miles*)
  - 1.2.4 Cast Iron / Wrought Iron - without cathodic protection (*miles*)
- 1.3 Plan/Commitment to Replace / Upgrade Distribution Mains
  - 1.3.1 Unprotected Steel (Bare & Coated) (*miles*)
  - 1.3.2 Cast Iron / Wrought Iron (*# years to replace*)
- 2 Distribution CO<sub>2</sub>e Fugitive Emission**
- 2.1 CO<sub>2</sub>e Fugitive Methane Emissions from Distribution Mains
- 2.2 CH<sub>4</sub> Fugitive Methane Emissions from Distribution Mains

2.2.1 CH4 Fugitive Methane Emissions fr

2.3 Annual Natural Gas Throughput fr

2.3.1 Annual Methane Gas Throughput fr

2.4 Fugitive Methane Emissions Rate (P

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## Natural Gas Transmission a

### **1 Onshore Natural Gas Transmission**

- 1.1.1 Pneumatic Device Venting (metric t
- 1.1.2 Blowdown Vent Stacks (metric tons,
- 1.1.3 Transmission Storage Tanks (metric
- 1.1.4 Flare Stack Emissions (metric tons/y
- 1.1.5 Centrifugal Compressor Venting (m
- 1.1.6 Reciprocating Compressor Venting (
- 1.1.7 Equipment leaks from valves, conne
- 1.1.8 Other Leaks (metric tons/year)
- 1.2 Total Transmission Compression Me
- 1.3 Total Transmission Compression Me
- 1.4 Total Transmission Compression Me

### **2 Underground Natural Gas Storage I**

- 2.1.1 Pneumatic Device Venting (metric t
- 2.1.2 Flare Stack Emissions (metric tons/y
- 2.1.3 Centrifugal Compressor Venting (m
- 2.1.4 Reciprocating Compressor Venting (
- 2.1.5 Equipment leaks from valves, conne

- 2.1.6 Other Equipment Leaks (metric tons)
- 2.1.7 Equipment leaks from valves, connections (metric tons/year)
- 2.1.8 Other equipment leaks from components
- 2.2 Total Storage Compression Methane Emissions
- 2.3 Total Storage Compression Methane Emissions
- 2.4 Total Storage Compression Methane Emissions

**3 Onshore Natural Gas Transmission**

- 3.1 Transmission Pipeline Blowdown Volume
- 3.2 Transmission Pipeline Blowdown Volume
- 3.3 Transmission Pipeline Blowdown Volume

**4 Other Non-Sub W Emissions Data (Metric Tons)**

- 4.1 Total Methane Emissions from additional sources
- 4.2 Total Methane Emissions from additional sources
- 4.3 Total Methane Emissions from additional sources

**5 Summary and Metrics**

- 5.1 Total Transmission and Storage Methane Emissions
- 5.2 Annual Natural Gas Throughput from Transmission
- 5.2.1 Annual Methane Gas Throughput from Transmission
- 5.3 Methane Emissions Intensity Metric

**Natural Gas Gathering and Processing**

- 1 METHANE EMISSIONS
  - 1.1 Gathering and Boosting Pipelines, Blends, and Processing
    - 1.1.1 Total Miles of Gathering Pipeline Operating
    - 1.1.2 Volume of Gathering Pipeline Blowdowns
    - 1.1.4 Gathering Pipeline Blow-Down Emissions
  
- 2 CO<sub>2</sub>e COMBUSTION EMISSIONS FROM GATHERING AND PROCESSING
  - 2.1 CO<sub>2</sub>e Emissions for Gathering & Boosting
  
- 3 CONVENTIONAL COMBUSTION EMISSIONS FROM GATHERING AND PROCESSING
  - 3.1 Emissions reported for all permitted facilities
    - 3.1.1 NO<sub>x</sub> (metric tons per year)
    - 3.1.2 VOC (metric tons per year)

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## Human Resources

- 1.1 Total Number of Employees
- 1.2 Percentage of Women in Total Workforce
- 1.3 Percentage of Minorities in Total Workforce
- 2.1 Total Number on Board of Directors
- 2.2 Percentage of Women on Board of Directors
- 2.3 Percentage of Minorities on Board of Directors
- 3 Employee Safety Metrics
  - 3.1 Recordable Incident Rate
  - 3.2 Lost-time Case Rate
  - 3.3 Days Away, Restricted, and Transferable
  - 3.4 Work-related Fatalities

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## Additional Metrics (Optional)

*Insert additional rows in this section*

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# Gas Company ESG/Sustainability Quantitative

(e.g., vertically integrated, T&D only, competitive integrated)

(e.g., deregulated, regulated, both)

<div style="background-color: #0070c0; color: white; padding: 2px;">                 See "Definitions" column for more information on each metric.             </div>	<b>Baseline</b> <b>2017</b>
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## EMISSIONS FROM DISTRIBUTION MAINS

CO <sub>2</sub> emissions (metric tons)	80,000
CH <sub>4</sub> emissions (metric tons)	1,287
N <sub>2</sub> O emissions (metric tons)	742
CO <sub>2</sub> & Coated (miles)	364
Painted (miles)	111
Upgrades (miles)	70
Estimated Remaining Miles of Distribution Mains (# years to complete)	10
Estimated Remaining Miles of Distribution Mains (# years to complete)	-
Estimated Remaining Miles of Distribution Mains (# years to complete)	N/A
CO <sub>2</sub> emissions from Gas Distribution Operations (metric tons)	24,870
CH <sub>4</sub> emissions from Gas Distribution Operations (metric tons)	995

om Gas Distribution Operations (MMSCF/year)	52
n Gas Distribution Operations in thousands of standard cubic feet ( <i>Mscf/year</i> )	18,406,596
om Gas Distribution Operations in millions of standard cubic feet (MMscf/year)	17,486
ercent <i>MMscf of Methane Emissions per MMscf of Methane Throughput</i> )	0.3%

## nd Storage

### Compression Methane Emissions

ons/year)	0
/year)	0
tons/year)	0
year)	0
etric tons/year)	0
[metric tons/year)	0
ectors, open ended lines, pressure relief valves, and meters (metric tons/year)	0
	0
ethane Emissions (metric tons/year)	0
ethane Emissions (CO2e/year)	0
ethane Emissions (MSCF/year)	0

### Methane Emissions

ons/year)	0
year)	0
etric tons/year)	0
[metric tons/year)	0
ectors, open ended lines, pressure relief valves, and meters (metric tons/year)	0
	0

s/year)	0
ectors, open-ended lines, and pressure relief valves associated with storage wellheads	0
ments associated with storage wellheads (metric tons/year)	0
e Emissions (metric tons/year)	0
e Emissions (CO2e/year)	0
e Emissions (MSCF/year)	0
<b>Pipeline Blowdowns</b>	
ent Stacks (metric tons/year)	0
ent Stacks (CO2e/year)	0
ent Stacks (MSCF/year)	0
<b>OPTIONAL)</b>	
tional sources not recognized by 40 CFR 98 Subpart W (metric tons/year)	0
tional sources not recognized by 40 CFR 98 Subpart W (CO2e/year)	0
tional sources not recognized by 40 CFR 98 Subpart W (MSCF/year)	0
thane Emissions (MMSCF/year)	0
n Gas Transmission and Storage Operations (MSCF/year)	0
om Gas Transmission and Storage Operations (MMSCF/year)	0
: (Percent MMscf of Methane Emissions per MMscf of Methane Throughput)	Missing Data

## Boosting

low Down Volumes, and Emissions  
 erated by gas utility (*miles*)  
 Down Emissions (*scf*)  
 sions outside storage and compression facilities (*metric tons CO2e*)

R GATHERING & BOOSTING COMPRESSION  
 osting Compression Stations (*metric tons*)

SSIONS FROM GATHERING & BOOSTING COMPRESSION  
 d sources (minor or major)

	1,004
	33.3%
	13.0%
	11
	36.4%
	9.1%
	4.05
	0.60
	1.12
	0.00



# Information

Last Year 2019	Current Year 2020
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80,000
1,300
795
367
86
53
9
9
9
21,961
877

80,000
1305
818.5
369.3
73.9
43.3
8
8
8
19,359
774





[Redacted]	
1,076	1,060
32.9%	32.6%
13.7%	13.7%
10	11
40%	36.4%
10%	9.1%
3.30	2.41
0.64	.26
1.56	.78
0.00	0
[Redacted]	

## Definitions

**All methane leak sources per 98.232 (i) (1-6) are included for Distribution. Combustion sources are excluded. CO<sub>2</sub> is excluded.**

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.

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.

Optional: # yrs by pipe type.

Optional: # yrs by pipe type.

Fugitive methane emissions (not CO<sub>2</sub> combustion emissions) stated as CO<sub>2</sub>e, as reported to EPA under 40 CFR 98, Subpart W, sections 98.236(q)(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 in row 2.2 below and converted to CO<sub>2</sub>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. Calculated value based on mt CH<sub>4</sub> input in the 2.2 (below).

INPUT VALUE (total mt CH<sub>4</sub>) as explained in definition above. Subpart W input is CH<sub>4</sub> (mt).

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).

Calculated annual metric: (MMSFC methane emissions/MMSCF methane throughput)

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**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<sub>2</sub> and N<sub>2</sub>O are excluded.**

Fugitive Methane emissions as defined in 40 CFR 98 Sub W Section 232 (e) (1-8), CO<sub>2</sub> and N<sub>2</sub>O emissions are excluded from this section.

Value reported using calculation in 40 CFR 98 Sub W Section 236(b)(4)

Value reported using calculation in 40 CFR 98 Sub W Section 236(i)(1)(iii)

Value reported using calculation in 40 CFR 98 Sub W Section 236(k)(2)(v)

Value reported using calculation in 40 CFR 98 Sub W Section 236(n)(11)

Value reported using calculation in 40 CFR 98 Sub W Section 236(o)(2)(ii)(D)(2)

Value reported using calculation in 40 CFR 98 Sub W Section 236(p)(2)(ii)(D)(2)

Value reported using calculation in 40 CFR 98 Sub W Section 236(q)(2)(v)

Value reported using calculation in 40 CFR 98 Sub W Section 236(q)(2)(v)

Density of Methane = 0.0192 kg/ft<sup>3</sup> per 40 CFR Sub W EQ. W-36

Fugitive Methane emissions as defined in 40 CFR 98 Sub W Section 232 (f) (1-8), CO<sub>2</sub> and N<sub>2</sub>O emissions are excluded from this section.

Value reported using calculation in 40 CFR 98 Sub W Section 236(b)(4)

Value reported using calculation in 40 CFR 98 Sub W Section 236(n)(11)

Value reported using calculation in 40 CFR 98 Sub W Section 236(o)(2)(ii)(D)(2)

Value reported using calculation in 40 CFR 98 Sub W Section 236(p)(2)(ii)(D)(2)

Value reported using calculation in 40 CFR 98 Sub W Section 236(q)(2)(v)

Value reported using calculation in 40 CFR 98 Sub W Section 236(q)(2)(v)

Value reported using calculation in 40 CFR 98 Sub W Section 236(q)(2)(v)

Value reported using calculation in 40 CFR 98 Sub W Section 232(q)(2)(v)

Density of Methane = 0.0192 kg/ft<sup>3</sup> per 40 CFR Sub W EQ. W-36

Blowdown vent stacks for onshore transmission pipeline as defined in 40 CFR 98 Sub W Section 232 (m), CO<sub>2</sub> and N<sub>2</sub>O emissions are excluded from this section.

Value reported using calculation in 40 CFR 98 Sub W Section 232(i)(3)(ii)

**(OPTIONAL)** If desired, report additional sources required by ONE Future include dehydrator vents, storage station venting transmission pipeline leaks, and storage tank methane.

**EIA 176 throughput or other reference for other throughput selected**

Methane content in natural gas equals 95% based on 40 CFR 98 Sub W 233(u)(2)(vii)

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

CO<sub>2</sub> combustion emissions as reported to EPA under 40 CFR 98, Subpart C, as directed in Subpart W, 98.232(k).

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 CO<sub>2</sub>e data reported includes all of these sources.

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Reference Section 7 Human Resources in EEI Definitions tab.

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