

## Gas Company ESG/Sustainability Quantitative Information

Operating Company(s):

Section A includes data for Peoples Natural Gas Company and Peoples Gas Company, Essential's two distribution companies that report under EPA Subpart W. Section B includes data for all distribution companies.

Business Type(s):

Distribution
Pennsylvania, West Virginia, and Kentucky
Regulated
1/1/2020 to 12/31/20

State(s) of Operation: Regulatory Environment: Current Reporting Year:

|  |  | Baseline  | Current Year |   |  |
|--|--|---|--------------|---|--|
| Ref. No.   | Refer to the "Definitions" column for more information on each metric.   | 2019  | 2020         | Definitions   |  |
|  |  | I   |              |   |  |
| Section A Natural Gas Distribution   |  |   |              |   |  |
|  |  |   |              | All methane leak sources per 98.232 (i) (1-6) are included for Distribution. Combustion sources are excluded. CO <sub>2</sub> is excluded.  |  |
| 1<br>1.1   | METHANE EMISSIONS AND MITIGATION FROM DISTRIBUTION MAINS  Number of Gas Distribution Customers                 | 692,920   | 687,604      |   |  |
| 1.2  | Distribution Mains in Service  | 032,320   | 507,004      | 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.   |  |
| 1.2.1  | Plastic (miles)  | 6,078   | 6,226        | ELASTO CHARLOS, Support Milegoring rule.  |  |
| 1.2.2  | Cathodically Protected Steel - Bare & Coated (miles)   | 3,659   | 3,649        |   |  |
| 1.2.3<br>1.2.4   | Unprotected Steel - Bare & Coated (miles)  Cast Iron / Wrought Iron - without upgrades (miles)                 | 3,257<br>80   | 3,113<br>75  |   |  |
| 1.3  | 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.  |  |
| 1.3.1  | Unprotected Steel (Bare & Coated) (# years to complete)  | _   | 15           | Optional: # yrs by pipe type.   |  |
| 1.3.2  | Cast Iron / Wrought Iron (# years to complete)   | _   |              | Optional: #yrs by pipe type.  |  |
| 2  | Distribution CO2e Fugitive Emissions   |   |              |   |  |
| 2.1  | CO2e Fugitive Methane Emissions from Gas Distribution Operations (metric tons)                                 | 274,718   | 274,908      | 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)[21)(y), and 98.236(r)[21)(y)[8]. i.e., this is Subpart W methane emissions as input in row 2.2 below and converted to CO2e here. This metric should include fugitive methane emissions above the reporting threshold for all natural gas local distribution companies (LDC3) 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 CH4 input in the 2.2 (below). |  |
| 2.2  | CH4 Fugitive Methane Emissions from Gas Distribution Operations (metric tons)                                  | 10,989  | 10,996       | INPUT VALUE (total mt CH4) as explained in definition above. Subpart W input is CH4 (mt).   |  |
| 2.2.1  | CH4 Fugitive Methane Emissions from Gas Distribution Operations (MMSCF/year)                                   | 572   | 573          |   |  |
| 2.3  | Annual Natural Gas Throughput from Gas Distribution Operations in thousands of standard cubic feet (Mscf/year) | 141,279,035   | 146,359,498  | 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).   |  |
| 2.3.1  | Annual Methane Gas Throughput from Gas Distribution Operations in millions of standard cubic feet (MMscf/year) | 134,215   | 139,042      |   |  |
| 2.4  | Fugitive Methane Emissions Rate (Percent MMscf of Methane Emissions per MMscf of Methane Throughput)           | 0.43%   | 0.41%        | Calculated annual metric: (MMSFC methane emissions/MMSCF methane throughput)  |  |
| Natural Gas Transmission and Storage (Not Applicable)  |  |   |              |   |  |
|  | Natural Gas Gathering and Boosting (Not Applicable)  |   |              |   |  |
| Human Resources (Please see Essential's ESG Report for detailed information regarding employee metrics and related narratives) |  |   |              |   |  |
| Section B Natural Gas Sustainability Initiative (NGSI) Metrics   |  |   |              |   |  |
|  |  |   |              |   |  |
|  | Total Methane Emissions, GHGRP emission factors for mains and services (MT)                                    |   | 13,790       | Total distribution segment methane emissions from GHGRP and non GHGRP facilities, calculated using GHGRP emission factors for mains and services  |  |
|  | Total Methane Emissions, GHG Inventory emission factors for mains and services (MT)                            |   | 7,217        | Total distribution segment methane emissions from GHGRP and non GHGRP facilities, calculated using GHG Inventory emission factors for mains and services  |  |
|  | Natural Gas Delivered to End Users, As Reported (Mscf)   |   | 156,582,963  | Total volume of natural gas delivered to end users from GHGRP facilities and non GHGRP facilities, as reported  |  |
|  | Natural Gas Delivered to End Users, Normalized (Mscf)  |   | 135,002,601  | Total volume of natural gas delivered to end users from GHGRP facilities and non GHGRP facilities, normalized   |  |
|  | Methane Content of Delivered Natural Gas, Reported (%)   | 2020 was the first year<br>for which Essential has<br>calculated and reported | 95.0%        | Methane content of delivered natural gas, as reported (weighted average methane content of all throughput).   |  |
|  | Methane Content of Delivered Natural Gas, Normalized (%)   | NGSI metrics  | 95.0%        | Methane content of delivered natural gas, normalized (weighted average methane content of all throughput)   |  |
|  | NGSI Methane Emissions Intensity, GHGRP emission factors for mains and services (%)                            |   | 0.4828%      | Methane emissions intensity associated with natural gas distribution using reported throughput and GHGRP emission factors for mains and services (methane emissions associated with natural gas distribution divided by total methane throughput)   |  |
|  | Normalized NGSI Methane Emissions Intensity, GHGRP emission factors for mains and services (%)                 |   | 0.5600%      | Methane emissions intensity associated with natural gas distribution using normalized throughput and GHGRP emission factors for mains and services (methane emissions associated with natural gas distribution divided by total methane throughput)   |  |
|  | NGSI Methane Emissions Intensity, GHG Inventory emission factors for mains and services (%)                    |   | 0.2527%      | Methane emissions intensity associated with natural gas distribution using reported throughput and GHG Inventory emission factors for mains and services (methane emissions associated with natural gas distribution divided by total methane throughput)   |  |
|  | Normalized NGSI Methane Emissions Intensity, GHG Inventory emission factors for mains and services (%)         |   | 0.2931%      | Methane emissions intensity associated with natural gas distribution using normalized throughput and GHG Inventory emission factors for mains and services (methane emissions associated with natural gas distribution divided by total methane throughput)   |  |