



# Gas Company ESG/Sustainability Quantitative Information

**Parent Company:** Fortis Inc.  
**Operating Company(s):** Central Hudson Gas and Electric Corporation  
**Business Type(s):** Transmission and Distribution  
**State(s) of Operation:** New York  
**Regulatory Environment:** Both regulated and deregulated  
**Report Date:** January 1, 2021 - December 31, 2021

Ref. No.	Refer to the "Definitions" column for more information on each metric.	Baseline 2017	Last Year 2020	Current Year 2021	Definitions
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## Natural Gas Distribution

<b>1</b>	<b>METHANE EMISSIONS AND MITIGATION FROM DISTRIBUTION MAINS</b>				<b>All methane leak sources per 98.232 (i) (1-6) are included for Distribution. Combustion sources are excluded. CO<sub>2</sub> is excluded.</b>
1.1	Number of Gas Distribution Customers	80,000	80,000	86,800	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	Distribution Mains in Service	1,287	1,305	1,313	
1.2.1	Plastic (miles)	742	819	847.8	
1.2.2	Cathodically Protected Steel - Bare & Coated (miles)	364	369	368	
1.2.3	Unprotected Steel - Bare & Coated (miles)	111	74	61.5	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.
1.2.4	Cast Iron / Wrought Iron - without upgrades (miles)	70	43	35.5	
1.3	Plan/Commitment to Replace / Upgrade Remaining Miles of Distribution Mains (# years to complete)	10	8	7	
1.3.1	Unprotected Steel (Bare & Coated) (# years to complete)	-	8	7	
1.3.2	Cast Iron / Wrought Iron (# years to complete)	N/A	8	7	Optional: # yrs by pipe type.
<b>2</b>	<b>Distribution CO<sub>2</sub>e Fugitive Emissions</b>				<b>Fugitive methane</b> 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).
2.1	CO <sub>2</sub> e Fugitive Methane Emissions from Gas Distribution Operations (metric tons)	24,870	19,359	17,089	<b>INPUT VALUE (total mt CH<sub>4</sub>) as explained in definition above. Subpart W input is CH<sub>4</sub> (mt).</b>
2.2	CH <sub>4</sub> Fugitive Methane Emissions from Gas Distribution Operations (metric tons)	995	774	684	
2.2.1	CH <sub>4</sub> Fugitive Methane Emissions from Gas Distribution Operations (MMSCF/year)	52	40	36	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	Annual Natural Gas Throughput from Gas Distribution Operations in thousands of standard cubic feet (Mscf/year)	18,406,596	18,764,996	19,802,168	
2.3.1	Annual Methane Gas Throughput from Gas Distribution Operations in millions of standard cubic feet (MMscf/year)	17,486	17,827	18,812	
2.4	Fugitive Methane Emissions Rate (Percent MMscf of Methane Emissions per MMscf of Methane Throughput)	0.3%	0.2%	0.2%	Calculated annual metric: (MMSFC methane emissions/MMSCF methane throughput)

## Natural Gas Transmission and Storage

<b>1</b>	<b>Onshore Natural Gas Transmission Compression Methane Emissions</b>				<b>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.</b>
					<b>Fugitive Methane</b> 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.
1.1.1	Pneumatic Device Venting (metric tons/year)	0.0	0.0	0.0	Value reported using calculation in 40 CFR 98 Sub W Section 236(b)(4)
1.1.2	Blowdown Vent Stacks (metric tons/year)	0.0	0.0	0.0	Value reported using calculation in 40 CFR 98 Sub W Section 236(i)(1)(iii)
1.1.3	Transmission Storage Tanks (metric tons/year)	0.0	0.0	0.0	Value reported using calculation in 40 CFR 98 Sub W Section 236(k)(2)(v)
1.1.4	Flare Stack Emissions (metric tons/year)	0.0	0.0	0.0	Value reported using calculation in 40 CFR 98 Sub W Section 236(n)(11)
1.1.5	Centrifugal Compressor Venting (metric tons/year)	0.0	0.0	0.0	Value reported using calculation in 40 CFR 98 Sub W Section 236(o)(2)(ii)(D)(2)
1.1.6	Reciprocating Compressor Venting (metric tons/year)	0.0	0.0	0.0	Value reported using calculation in 40 CFR 98 Sub W Section 236(p)(2)(ii)(D)(2)
1.1.7	Equipment leaks from valves, connectors, open ended lines, pressure relief valves, and meters (metric tons/year)	0.0	0.0	0.0	Value reported using calculation in 40 CFR 98 Sub W Section 236(q)(2)(v)
1.1.8	Other Leaks (metric tons/year)	0.0	0.0	0.0	Value reported using calculation in 40 CFR 98 Sub W Section 236(q)(2)(v)
1.2	Total Transmission Compression Methane Emissions (metric tons/year)	0.0	0.0	0.0	
1.3	Total Transmission Compression Methane Emissions (CO <sub>2</sub> e/year)	0.0	0.0	0.0	
1.4	Total Transmission Compression Methane Emissions (MSCF/year)	0.0	0.0	0.0	Density of Methane = 0.0192 kg/ft <sup>3</sup> per 40 CFR Sub W EQ. W-36
<b>2</b>	<b>Underground Natural Gas Storage Methane Emissions</b>				<b>Fugitive Methane</b> 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.
2.1.1	Pneumatic Device Venting (metric tons/year)	0.0	0.0	0.0	Value reported using calculation in 40 CFR 98 Sub W Section 236(b)(4)
2.1.2	Flare Stack Emissions (metric tons/year)	0.0	0.0	0.0	Value reported using calculation in 40 CFR 98 Sub W Section 236(n)(11)
2.1.3	Centrifugal Compressor Venting (metric tons/year)	0.0	0.0	0.0	Value reported using calculation in 40 CFR 98 Sub W Section 236(o)(2)(ii)(D)(2)
2.1.4	Reciprocating Compressor Venting (metric tons/year)	0.0	0.0	0.0	Value reported using calculation in 40 CFR 98 Sub W Section 236(p)(2)(ii)(D)(2)
2.1.5	Equipment leaks from valves, connectors, open ended lines, pressure relief valves, and meters (metric tons/year)	0.0	0.0	0.0	Value reported using calculation in 40 CFR 98 Sub W Section 236(q)(2)(v)
2.1.6	Other Equipment Leaks (metric tons/year)	0.0	0.0	0.0	Value reported using calculation in 40 CFR 98 Sub W Section 236(q)(2)(v)
2.1.7	Equipment leaks from valves, connectors, open-ended lines, and pressure relief valves associated with storage wellheads	0.0	0.0	0.0	Value reported using calculation in 40 CFR 98 Sub W Section 236(q)(2)(v)



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<b>Natural Gas Transmission and Storage (Continued)</b>						
2.1.8	Other equipment leaks from components associated with storage wellheads (metric tons/year)	0.0	0.0	0.0	Value reported using calculation in 40 CFR 98 Sub W Section 232(q)(2)(v)	
2.2	Total Storage Compression Methane Emissions (metric tons/year)	0.0	0.0	0.0		
2.3	Total Storage Compression Methane Emissions (CO2e/year)	0.0	0.0	0.0		
2.4	Total Storage Compression Methane Emissions (MSCF/year)	0.0	0.0	0.0	Density of Methane = 0.0192 kg/ft3 per 40 CFR Sub W EQ. W-36	
<b>3 Onshore Natural Gas Transmission Pipeline Blowdowns</b>						
3.1	Transmission Pipeline Blowdown Vent Stacks (metric tons/year)	0.0	0.0	0.0	Blowdown vent stacks for onshore transmission pipeline as defined in 40 CFR 98 Sub W Section 232 (m), CO2 and N2O emissions are excluded from this section.	
3.2	Transmission Pipeline Blowdown Vent Stacks (CO2e/year)	0.0	0.0	0.0		
3.3	Transmission Pipeline Blowdown Vent Stacks (MSCF/year)	0.0	0.0	0.0		
<b>4 Other Non-Sub W Emissions Data (OPTIONAL)</b>						
4.1	Total Methane Emissions from additional sources not recognized by 40 CFR 98 Subpart W (metric tons/year)	0.0	0.0	0.0	(OPTIONAL) If desired, report additional sources required by ONE Future include dehydrator vents, storage station venting transmission pipeline leaks, and storage tank methane.	
4.2	Total Methane Emissions from additional sources not recognized by 40 CFR 98 Subpart W (CO2e/year)	0.0	0.0	0.0		
4.3	Total Methane Emissions from additional sources not recognized by 40 CFR 98 Subpart W (MSCF/year)	0.0	0.0	0.0		
<b>5 Summary and Metrics</b>						
5.1	Total Transmission and Storage Methane Emissions (MMSCF/year)	0.0	0.0	0.0	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)	
5.2	Annual Natural Gas Throughput from Gas Transmission and Storage Operations (MSCF/year)	0.0	0.0	0.0		
5.2.1	Annual Methane Gas Throughput from Gas Transmission and Storage Operations (MMSCF/year)	0.0	0.0	0.0		
5.3	Methane Emissions Intensity Metric (Percent MMscf of Methane Emissions per MMscf of Methane Throughput)	Missing Data	Missing Data	Missing Data		
<b>Natural Gas Gathering and Boosting</b>						
<b>1 METHANE EMISSIONS</b>						
<b>1.1 Gathering and Boosting Pipelines, Blow Down Volumes, and Emissions</b>						
1.1.1	Total Miles of Gathering Pipeline Operated by gas utility (miles)	0	0	0	This metric is collected to support calculations under EPA 40 CFR 98, Subpart W.	
1.1.2	Volume of Gathering Pipeline Blow Down Emissions (scf)	-	-	-		
1.1.4	Gathering Pipeline Blow-Down Emissions outside storage and compression facilities (metric tons CO2e)	0	0	0		
<b>2 CO2e COMBUSTION EMISSIONS FOR GATHERING &amp; BOOSTING COMPRESSION</b>						
2.1	CO2e Emissions for Gathering & Boosting Compression Stations (metric tons)	0	0	0	CO2 combustion emissions as reported to EPA under 40 CFR 98, Subpart C, as directed in Subpart W, 98.232(k).	
<b>3 CONVENTIONAL COMBUSTION EMISSIONS FROM GATHERING &amp; BOOSTING COMPRESSION</b>						
<b>3.1 Emissions reported for all permitted sources (minor or major)</b>						
3.1.1	NOx (metric tons per year)	0	0	0	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 includes all of these sources.	
3.1.2	VOC (metric tons per year)					
<b>Human Resources</b>						
1.1	Total Number of Employees	1,004	1,060	1,071	Reference Section 7 Human Resources in EEI Definitions tab.	
1.2	Percentage of Women in Total Workforce	33.3%	32.6%	31.5%		
1.3	Percentage of Minorities in Total Workforce	13.0%	13.7%	14.4%		
2.1	Total Number on Board of Directors/Trustees	11	11	11		
2.2	Percentage of Women on Board of Directors/Trustees	36.4%	36.4%	36.4%		
2.3	Percentage of Minorities on Board of Directors/Trustees	9.1%	9.1%	9.1%		
<b>3 Employee Safety Metrics</b>						
3.1	Recordable Incident Rate	4.05	2.41	2		
3.2	Lost-time Case Rate	0.60	0.26	0.45		
3.3	Days Away, Restricted, and Transfer (DART) Rate	1.12	0.78	1		
3.4	Work-related Fatalities	0	0	0		
<b>Additional Metrics (Optional)</b>						