

Notes:
Please round all natural gas emissions to nearest Mscf.
As a reminder, please use the latest version of each of the worksheets.

Summary Tables:

System Categories	Emission Source Categories	Fugitive or Vent	For Informational and Reference Purposes Only: Original 2015 Baseline Emissions (Mscf)	Approved 2015 Baseline Emissions (Mscf)	Proposed Adjusted 2015 Baseline Emissions (Mscf)	2022 Total Annual Volume of Leaks & Emissions (Mscf)	2022 Total Annual Count of Leak & Emission Items	2023 Total Annual Volume of Leaks & Emissions (Mscf)	2023 Total Annual Count of Leak & Emission Items	Emission Change for Year Over Year Comparison from 2022 to 2023 (Mscf)	Percentage Change for Year Over Year Comparison from 2022 to 2023	Count Change for Year Over Year Comparison from 2022 to 2023	Percentage Change for Year Over Year Comparison from 2022 to 2023	Emission Change for Year Over Year Comparison from 2015 to 2023 (Mscf)	Percentage Change for Year Over Year Comparison from 2015 to 2023	Explanation for Significant Percentage Change for Year Over Year Comparison from 2022 to 2023
Transmission Pipelines	Pipeline Leaks	Fugitive	87	87	NA	81	Total System Mileage: 213	83	Total System Mileage: 218	-	2.3%	5	2.3%	-8	(9.4%)	
	All Damages	Fugitive	0	0	NA	0	Number of emission items: 0	0	Number of emission items: 0	-	-	-	-	0	0.0%	
	Blowdowns	Vented	3,426	3,426	NA	181	Number of blowdown events: 239	117	Number of blowdown events: 247	(61)	(11.4%)	8	3.3%	-3,309	(96.6%)	The year-over-year decrease can be attributed to a decreased average volume per blowdown during 2023 relative to 2022.
	Component Ventd Emissions	Vented	0	0	NA	589	Number of devices: 28	589	Number of devices: 28	-	0.0%	-	0.0%	589	-	
	Component Fugitive Leaks	Fugitive	N/A	N/A	NA	0	Number of leaks: 1	0	Number of leaks: 0	NA	NA	(1)	(100.0%)	NA	NA	
	Odors	Vented	2	2	NA	89	Number of units: 27	86	Number of units: 27	(3)	(3.4%)	-	0.0%	89	4,300.0%	Odorization emissions fluctuate depending on the level of odorant in the gas and the volume of gas flow.
Transmission M&B Stations	Station Leaks & Emissions	Fugitive	22,216	22,216	NA	21,792	Number of facilities: 16	21,792	Number of facilities: 16	-	0.0%	-	0.0%	-424	(1.9%)	
	Blowdowns	Vented	31	31	NA	2	Number of blowdown events: 161	3	Number of blowdown events: 232	1	50.0%	76	44.1%	-38	(100.0%)	Emissions increased year-over-year because inspection activities increased year-over-year.
Transmission Compressor Stations	Compressor Emissions	Vented	1,262	1,262	NA	2,074	Number of compressors: 10	1,387	Number of compressors: 10	(867)	(13.1%)	-	0.0%	125	9.9%	Emissions decreased year-over-year because the total pressured operating hours decreased and the average pressured operating mode emission factor decreased during 2023 relative to 2022.
	Compressor Leaks	Fugitive	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Blowdowns	Vented	3,916	3,916	NA	963	Number of blowdown events: 284	1,881	Number of blowdown events: 212	(918)	(95.3%)	(77)	(11.4%)	-2,875	(100.0%)	The year-over-year increase can be attributed to an increased average volume per blowdown during 2023 relative to 2022.
	Component Ventd Emissions	Vented	NA	887	NA	336	Number of devices: 16	336	Number of devices: 16	-	0.0%	-	0.0%	951	(100.0%)	
	Component Fugitive Leaks	Fugitive	1,885	1,512	3,512	589	Number of leaks: 75	502	Number of leaks: 42	(70)	(13.4%)	(33)	(10.0%)	-9,015	(100.0%)	The decrease in emissions can be attributed to the continued efforts to detect and repair leaks >1,000 ppm during quarterly CAME O&F and Safe Rate surveys.
	Storage Tank Leaks & Emissions	Vented	3	3	NA	0	Number of emission items: 0	0	Number of emission items: 0	(3)	(100.0%)	(3)	(100.0%)	-3	(100.0%)	Emissions decreased year-over-year because there was not any tank venting during 2023.
Distribution Main & Service Pipelines	Pipeline Leaks	Fugitive			NA		Number of known leaks: 707 Estimated number of unknown leaks: 113 Total number of leaks: 820	14,681	Number of known leaks: 579 Estimated number of unknown leaks: 140 Total number of leaks: 719	2,687	(18.4%)	(10)	(12.3%)	-19,079	(100.0%)	The increase in emissions year-over-year can be attributed to an increase in the average number of leak-days and average volume per leak in 2023 relative to 2022.
	All Damages	Fugitive	8,804	8,804	NA	7,845	Number of damages: 347	6,707	Number of damages: 320	(1,138)	(14.9%)	(21)	(7.8%)	-2,187	(100.0%)	The year-over-year decrease in emissions can be attributed to reductions in Excavation and Natural Force damages. SDG&E's Damage Prevention Program is helping to reduce excavation damages.
	Blowdowns	Vented	45	45	NA	41	Number of blowdown events: 296	51	Number of blowdown events: 322	10	24.4%	26	8.8%	6	13.3%	The increase in emissions can be attributed to an increase in the number of blowdowns year-over-year.
	Component Ventd Emissions	Vented	0	0	NA	0	Number of emission items: 0	0	Number of emission items: 0	-	-	-	-	0	-	
	Component Fugitive Leaks	Fugitive	0	0	NA	0	Number of leaks: 0	0	Number of leaks: 0	-	-	-	-	0	-	
	Station Leaks & Emissions	Fugitive	80,978	80,978	NA	70,095	Number of stations: 469	80,493	Number of stations: 467	-9,885	(14.0%)	-6	0.9%	-485	(0.6%)	Emissions increased year-over-year because the station count increased and the emission estimates are completed using a population-based methodology.
Distribution M&B Stations	All Damages	Fugitive	NA	NA	NA	0	Number of damages: 0	0	Number of damages: 0	-	-	-	-	NA	NA	Distribution M&B blowdowns are a function of inspection activity level and can vary year-over-year. There were more inspections and more blowdown events in 2023 relative to 2022.
	Blowdowns	Vented	16	16	NA	17	Number of blowdowns: 2,779	18	Number of blowdowns: 2,867	1	5.9%	88	3.2%	1	17.3%	
	Component Emissions	Vented	NA	0	NA	0	Number of emission items: 0	0	Number of emission items: 0	-	-	-	-	0	-	
	Component Leaks	Fugitive	NA	NA	NA	0	Number of leaks: 28	0	Number of leaks: 74	NA	NA	(6)	(16.3%)	NA	NA	
Customer Meters	Meter Leaks	Fugitive			NA		Number of leaks: 5,184 Number of meters: 108,971	132,117	Number of leaks: 5,089 Number of meters: 814,996	772	6.4%	-1,089	0.6%	6,058	4.8%	Emissions increased year-over-year because the number of meters increased and the emission estimates are completed using a population-based methodology.
	All Damages	Fugitive	NA	NA	NA	1,661	Number of damages: 194	1,359	Number of damages: 176	(302)	(18.2%)	(18)	(9.3%)	NA	NA	The year-over-year decrease in emissions can be attributed to a decrease in the number of damages that occurred during 2023 relative to 2022.
	Vented Emissions	Vented	54	54	NA	63	Number of blowdown events: 60,183	56	Number of blowdown events: 63,896	(7)	(11.3%)	(6,267)	(10.4%)	2	3.7%	The year-over-year decrease in emissions can be attributed to a decrease in blowdowns during 2023 relative to 2022.
	Storage Leaks & Emissions	Fugitive	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Underground Storage	Compressor Ventd Emissions	Vented	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Blowdowns	Vented	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Component Ventd Emissions	Vented	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Compressor and Component Fugitive Leaks	Fugitive	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Compressor and Component Fugitive Leaks	Fugitive	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Dehydrator Vent Emissions	Fugitive	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Unleak Large Leaks	(Discrepancy)															
Total			282,046	285,369		250,505		262,468		11,381	5%	NA	NA	(22,892)	(8.2%)	

Legend
Using proposed volume to estimate reductions relative to baseline per CNGV staff advice
Revised on August 16, 2024
Revised on June 13, 2023
Revised on August 8, 2023

SDG&E, July 1st, 2024

Rulemaking (R.) 15-01-008 to Adopt Rules and Procedures Governing Commission Regulated Natural Gas Pipelines and Facilities to Reduce Natural Gas Leaks Consistent with Senate Bill 1371, In Response to Data Request, R15-01-008, 2024 June Report Appendix 8; Rev. 03/29/2024

System Wide Leak Rate Data

1/1/2023 - 12/31/2023

The highlighted cells show the volumes that are summed together as the throughput for calculating the system wide leak rate.

Gas Storage Facilities:

Average Close of the Month Cushion Gas Storage Inventory (Mscf)	Average Close of the Month Working Gas Storage Inventory (Mscf)	Total Annual Volume of Injections into Storage (Mscf)	Total Annual Volume of Gas Used by the Gas Department (Mscf)	Total Annual Volume of Withdrawals from Storage (Mscf)	Explanatory Notes / Comments
NA	NA	NA	NA	NA	

Transmission System:

Total Annual Volume of Gas Used by the Gas Department (Mscf)	Total Annual Volume of Gas Transported to or for Customers* in State (Mscf)	Total Annual Volume of Gas Transported to or for Customers* out of State (Mscf)	Total Annual Volume of Gas Transported to utility-owned or third-party storage fields for injection into storage (Mscf)	Explanatory Notes / Comments
176,850	94,525,050	0	0	

Distribution System:

Total Annual Volume of Gas Used by the Gas Department (Mscf)	Total Annual Volume of Gas Transported to or for Customers* in State (Mscf)	Total Annual Volume of Gas Transported to or for Customers* out of State (Mscf)	Explanatory Notes / Comments
98,660	94,593,064	0	

*The term customers includes anyone that the utility is transporting gas for, including customers who purchase gas from the utility.

Customers can be anyone including residential, businesses, other utilities, gas transportation companies, etc.

SDG&E, July 1st, 2024

Rulemaking (R.) 15-01-008 to Adopt Rules and Procedures Governing Commission Regulated Natural Gas Pipelines and Facilities to Reduce Natural Gas Leaks Consistent with Senate Bill 1371, Leno.

In Response to Data Request, R15-01-008, 2024 June Report

Appendix 8; Rev. 03/29/2024

Summary Tables:

Natural Gas Properties	Average Mole Percent	Explanatory Notes / Comments
Methane	95.08	Rainbow
Carbon Dioxide	0.45	Rainbow
Ethane	3.23	Rainbow
C3+	0.12	Rainbow
C6+	0.002	Rainbow
Oxygen	0.2	Estimated up to limit, Not Tested
Hydrogen		Not Tested
Sulfur	0.0003	Rainbow
Water	0.169	Estimated to limit
Carbon Monoxide		Not Tested
Particulate Matter		Not Tested
Inert Gas	1.57	Rainbow
Odorant	0.000107	Estimated guideline rate