

Notes:

Summary Tables:

System Categories	Emission Source Categories	Flagged or Verified	For Informational and Reference Purposes Only: Original 2013 Baseline Emissions (MMcf)	Approved 2015 Baseline Emissions (MMcf)	Proposed Adjusted 2015 Baseline Emissions (MMcf)	2021 Total Annual Volume of Leaks & Emissions (MMcf)	2021 Total Annual Count of Leaks & Emission Items	2022 Total Annual Volume of Leaks & Emissions (MMcf)	2022 Total Annual Count of Leaks & Emission Items	Emission Change for Year Over Year Comparison from 2015 to 2022 (MMcf)	Percentage Change for Year Over Year Comparison from 2015 to 2022	Count Change for Year Over Year Comparison from 2015 to 2022	Percentage Change for Year Over Year Comparison from 2015 to 2022	Emission Change for Year Over Year Comparison from 2015 to 2022 (MMcf)	Percentage Change for Year Over Year Comparison from 2015 to 2022	Explanation for Significant Percentage Change for Year Over Year Comparison from 2015 to 2022	
Transmission Pipelines	Aldehyde Leaks	Flagged	87	87	82	Leak count: 0 Total System Emissions: 215	Leak count: 0 Total System Emissions: 215	11	11	(1.2%)	(3)	(0.5%)	6	16.9%			
	All Damages	Flagged	0	0	0	Number of emission items: 0	Number of emission items: 0	0	0	0.0%	0.0%	0	0.0%	0	0.0%		
	Bleeddowns	Flagged	3,426	3,426	75	Number of bleeddown events: 232	181	Number of bleeddown events: 239	106	141.3%	27	13.7%	3,245	94.7%	Bleeddown emissions are a function of activity level. Bleeddown volume varies by activity; increased project activity during 2022 resulted in an increased number of bleeddowns relative to 2021.		
	Component Ventd Emissions	Verified	0	0	0	Number of devices: 28	189	Number of devices: 28	189	0.0%	0.0%	189	100.0%	L-1600 was under construction during 2022, which contributed to the reduced number of leaks.			
Transmission M&S Stations	Component Fugitive Leaks	Flagged	N/A	N/A	0	Number of leaks: 5	0	Number of leaks: 5	0	N/A	N/A	(5)	100.0%	N/A	N/A	Observation emissions fluctuate depending on the level of activity in the gas and the volume of gas flow. Please note that it was identified that analyses were missed from the 2021 count during the 2022 data review. The 2021 count and emission volume were updated for an accurate year-over-year comparison.	
	Odors	Verified	2	2	88	Number of units: 27	89	Number of units: 27	89	0.0%	0.0%	87	4,000.0%	The 2021 count was revised to account for 2 map facilities that were inadvertently left out of the count last year. Both were blind flagged at all 2021 and 2022 Emissions Data Reviews.			
	Station Leaks & Emissions	Flagged	22,216	22,216	21,792	Number of facilities: 16	21,792	Number of facilities: 16		0.0%	0.0%	(424)	1.9%	Bleeddowns, leaks, and emissions are a function of activity level. Bleeddown volume varies by activity, depending on the type of work undertaken.			
	Bleeddowns	Verified	35	31	2	Number of bleeddown events: 120	2	Number of bleeddown events: 161	2	0.0%	31	23.8%	(29)	(93.5%)			
Transmission Compressor Stations	Compressor Emissions	Verified	3,162	3,162	2,085	Number of compressors: 30	2,074	Number of compressors: 30	9	0.4%	0.4%	312	64.5%				
	Compressor Leaks	Flagged	N/A	N/A	N/A	Number of leaks: 0	N/A	Number of leaks: 0	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Bleeddowns	Verified	3,956	3,956	3,201	Number of bleeddown events: 284	963	Number of bleeddown events: 284		(2.18)	(69.5%)	20	7.6%	(3,955)	(99.3%)	Bleeddown emissions are a function of activity level. Bleeddown volume varies by activity. The decrease in emissions can be attributed to increased project activity at the stations. Due to the increased project activity, equipment was out of service for extended periods of time, and the number of bleeddowns from large equipment was reduced.	
	Component Ventd Emissions	Flagged	N/A	887	336	Number of devices: 16	136	Number of devices: 16		0.0%	0.0%	(551)	(62.1%)				
Transmission Compressor Stations	Component Fugitive Leaks	Flagged	1,085	2,913	144	Number of leaks: 20	136	Number of leaks: 17		(3)	(0.4%)	(3)	(15.0%)	(3,925)	(100.0%)	The decrease in emissions and leaks count can be attributed to the continued efforts to detect and repair leaks 24/7 upon during operations. Leaks and data were reviewed.	
	Station Leaks & Emissions	Verified	3	3	5	Number of emission items: 14	0	Number of emission items: 5		(33)	(197.5%)	(18)	(124.7%)	(3)	(195.4%)	Emissions decreased year-over-year because fewer LNG tanks were operated in 2022 relative to 2021. Two tanks were in service during 2021, but only one tank was in service during 2022.	
	Pipeline Leaks	Flagged	33,730	6,668	11,110	Number of known leaks: 624 Estimated number of unknown leaks: 314 Total number of leaks: 705	12,020	Number of known leaks: 708 Estimated number of unknown leaks: 114 Total number of leaks: 822		110	8.2%	112	16.4%	3,332	38.7%	Emissions from broken leaks were approximately equal year-over-year. However, because more leaks were found during 2022 versus than 2021 surveys, the estimated volume of emissions from unknown leaks during 2022 is higher than 2021. The increase in the number of leaks found during surveys can be attributed to increasing more mileage during 2022 than 2021. Approximately 400 miles of pipeline were inspected during 2022.	
	All Damages	Flagged	8,894	8,894	8,827	Number of damages: 385	9,160	Number of damages: 347		342	3.8%	(18)	(1.9%)	273	3.1%	Emissions increased by 3.5% year-over-year. However, the number of damage events decreased by 8.9% from 2021 to 2022, and the number of EIS leaks increased by more than 2,000. The increase in emissions can be attributed to one service line damage that released 1,322 MMcf. The leak was classified as an observation damage and was repaired within one day.	
Distribution Main & Service Pipelines	Bleeddowns	Verified	45	45	26	Number of bleeddown events: 230	41	Number of bleeddown events: 296		15	32.7%	6	2.1%	4	(8.9%)	Bleeddown counts and emissions are a function of activity level. Bleeddown volume varies by activity; increased project activity during 2022 resulted in an increased number of bleeddowns relative to 2021.	
	Component Ventd Emissions	Verified	0	0	0	0	0	0	0	0.0%	0.0%	0	0.0%	0	0.0%		
	Component Fugitive Leaks	Flagged	0	0	0	0	0	0	0	0.0%	0.0%	0	0.0%	0	0.0%		
	All Damages	Flagged	N/A	N/A	N/A	Number of damages: 0	N/A	Number of damages: 0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Distribution M&S Pipelines	Bleeddowns	Verified	16	16	16	Number of bleeddown events: 2,660	17	Number of bleeddowns: 2,779		1	6.0%	119	6.3%	1	6.3%	Distribution M&S bleeddowns are a function of inspection activity level and can vary year by year. There were more inspections and more bleeddown events in 2024 relative to 2021.	
	Component Ventd Emissions	Flagged	N/A	0	0	Number of emission items: 0	0	Number of emission items: 0		1	0.0%	119	6.3%	1	6.3%		
	Component Leaks & Emissions	Flagged	N/A	269	219	Number of leaks: 35	172	Number of leaks: 28		(27)	(21.5%)	(7)	(20.0%)	(27)	(100.0%)	SC&E's efforts to reduce emissions through increased greasing and exercising of valves during inspections may be contributing to the slight leak reductions.	
	Meter Leaks	Flagged	126,261	126,261	131,036	Number of meters: 906,136	131,592	Number of meters: 1,584 Number of meters: 100,807		536	0.4%	3,773	0.4%	5,331	4.2%	The increase in emissions is due to the increasing number of meters in the system and the population-based emissions estimation contribution.	
Customer Meters	All Damages	Flagged	N/A	N/A	795	Number of damages: 345	1,661	Number of damages: 294		866	108.0%	(5)	(33.8%)			Emissions associated with damages vary based on damage severity, damaged asset dimensions, and pressure. Between 2021 and 2022, the number of damage events increased from 345 to 384 annually. 15% of the 384 damages in 2022 were repaired within one day, and the remaining three damages were repaired within two days.	
	Ventd Emissions	Verified	54	54	45	Number of bleeddown events: 53,432	63	Number of bleeddown events: 62,163		18	40.0%	6,753	12.6%	9	16.7%	Customer Meter bleeddowns are a function of activity level and can vary year to year. More O&M activities resulting in bleeddowns took place in 2022 than 2021.	
	Station Leaks & Emissions	Flagged	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Compressor Ventd Emissions	Verified	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Underground Storage	Bleeddowns	Verified	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Component Ventd Emissions	Verified	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Compressor and Component Fugitive Leaks	Flagged	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Solvent Vapor Emissions (Dispersions)	Flagged	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Unusual Large Leaks		Total	282,046	179,996	180,453	N/A	N/A	180,978	N/A	(113)	(0)	N/A	N/A	1,888	0.1%		

SDG&E, June 15th, 2023

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, 2023 June Report

Appendix 8; Rev. 03/30/2023

System Wide Leak Rate Data

1/1/2022 - 12/31/2022

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

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
309,974	102,195,275			

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
102,365	98,974,469		

*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, June 15th, 2023

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, 2023 June Report

Appendix 8; Rev. 03/30/2023

Summary Tables:

Natural Gas Properties	Average Mole Percent	Explanatory Notes / Comments
Methane	94.41	Rainbow
Carbon Dioxide	0.69	Rainbow
Ethane	3.71	Rainbow
C3+	0.17	Rainbow
C6+	0.003	Rainbow
Oxygen	0.2	Estimated up to limit, Not Tested
Hydrogen		Not Tested
Sulfur	0.00017	Rainbow
Water	0.0147	Estimated to limit
Carbon Monoxide		Not Tested
Particulate Matter		Not Tested
Inert Gas	1.7	Rainbow
Odorant	0.000107	Estimated guideline rate