

Summary Tables:

System Categories	Emission Source Categories	Fugitive or Vented	For Reference Only: 2015 Baseline Emissions (Mscf)	2015 Adjusted Baseline Emissions (Mscf)	2020 Total Annual Volume of Leaks & Emissions (Mscf)	2020 Total Annual Count of Leak & Emission Items	2021 Total Annual Volume of Leaks & Emissions (Mscf)	2021 Total Annual Count of Leak & Emission Items	Emission Change for Year Over Year Comparison from 2020 to 2021 (Mscf)	Percentage Change for Year Over Year Comparison from 2020 to 2021	Count Change for Year Over Year Comparison from 2020 to 2021	Percentage Change for Year Over Year Comparison from 2020 to 2021	Emission Change for Year Over Year Comparison from 2015 to 2021 (Mscf)	Percentage Change for Year Over Year Comparison from 2015 to 2021	Explanation for Significant Percentage Change for Year Over Year Comparison from 2020 to 2021
Transmission Pipelines	Pipeline Leaks	Fugitive	87	87	83	Leak count: 0 Total System Mileage: 218	82	Leak count: 0 Total System Mileage: 215	(1)	(1.0%)	(3)	(1.4%)	-5	(5.7%)	Transmission Pipeline Mileage decreased by 3 miles.
	All Damages	Fugitive	0	0	0	Number of emission items: 0	0	Number of emission items: 0	-	0.0%	-	0.0%	0	-	
	Blowdowns	Vented	3,426	3,426	531	Number of blowdown events: 117	75	Number of blowdown events: 212	(456)	(85.9%)		0.0%	-3,351	(97.8%)	Blowdowns emissions are a function of activity level. Blowdown volume varies by activity, depending on the type of work performed. The increase in emissions and number of devices can be attributed to: - Asset verification projects of Transmission Pipeline components, resulting in more accurate inventory of component count.
	Component Emissions	Vented	0	0	0	Number of devices: 0	589	Number of devices: 28					589	#DIV/0!	
	Component Leaks	Fugitive	N/A	N/A	0	Number of leaks: 6	0	Number of leaks: 5	-		(1)	0.0%	NA	NA	
Transmission M&R Stations	Odorizers	Vented	2	2	68	Number of units: 23	82	Number of units: 22	-14	(20.6%)	(13)	0.0%	80	4,000.0%	Odorization varies, based on the amount of odorant already in the gas.
	Station Leaks & Emissions	Fugitive	22,216	22,216	21,767	Number of facilities: 14	21,767	Number of facilities: 14	-	0.0%	-	0.0%	-648	(2.9%)	
	Blowdowns	Vented	31	31	2	Number of blowdown events: 168	2	Number of blowdown events: 130	(0)	(8.1%)		0.0%	-29	(93.5%)	Blowdowns emissions are a function of activity level. Blowdown volume varies by activity, depending on the type of work performed. The increase in emissions can be attributed to the normal variation and fluctuation. All units are operating within the specified operating parameters.
Transmission Compressor Stations	Compressor Emissions	Vented	1,262	1,262	867	Number of compressors: 10	2,065	Number of compressors: 10					803	63.6%	
	Compressor Leaks	Fugitive	NA	NA	N/A	N/A	N/A	N/A	1,198	138.1%	-	0.0%	-	NA	
	Blowdowns	Vented	3,956	3,956	1,707	Number of blowdown events: 281	3,201	Number of blowdown events: 264	-1,484	(87.5%)		0.0%	-755	(19.1%)	Blowdowns emissions are a function of activity level. Blowdown volume varies by activity, depending on the type of work performed. The increase in emissions is mainly due to an emergency shutdown event that was due to gas detector fault in a Clark unit.
	Component Emissions	Vented	NA	887	401	Number of devices: 19	336	Number of devices: 16	(85)	(16.2%)		0.0%	NA	NA	The decrease in the number of devices and emissions is due to field verification projects of Compressor Stations Components, resulting in a lower but more accurate components count.
	Component Leaks	Fugitive	1,085	2,949	368	Number of leaks: 23	144	Number of leaks: 20	(224)	(60.9%)		0.0%	-2,775	(95.1%)	
	Storage Tank Leaks & Emissions	Vented	3	3	7	Number of emission items: 68	5	Number of emission items: 34	(2)	(28.2%)	(184)	0.0%	2	66.7%	SDG&E improved the procedures to maintain the vacuum insulation of the tanks which resulted in decreasing the number of tank pressure releases due to temperature/pressure fluctuation.
Distribution Main & Service Pipelines	Pipeline Leaks				9,547	Number of known leaks: 636 Estimated number of unknown leaks: 58 Total number of leaks: 687	12,391	Number of known leaks: 614 Estimated number of unknown leaks: 79 Total number of leaks: 693							In 2022, CPUC approved SDG&E to estimate emissions based on Company Specific Emissions Factor The increased in emissions can be attributed to: -In 2020, SDG&E increased leak surveys of Protected Steel and SOTA Plastic from five (5) year to three (3) year and the Protected Steel pre-1950 and ASOT/A Plastic from three (3) year to annually resulted in sporadic leak survey anniversary dates. Due to the increased surveys, there were more leaks discovered via surveys compared to previous year, which influence the number of days leaking and the number unknown leaks estimation. Once survey portions are leveled, the number of leaks is expected to drop and stay consistent.  The 2020 & the proposed 2015 Data values have been updated with Company Specific Ef's to allow apples-to-apples comparability
		Fugitive	33,730	8,668					2,744	28.7%	6	0.0%	3,623	41.8%	
	All Damages	Fugitive	8,894	8,894	9,329	Number of damages: 385	8,827	Number of damages: 385	(502)	(5.4%)	-	0.0%	-67	(0.8%)	Emissions associated with damages vary based on damage severity, damaged asset dimensions, and pipeline pressure
	Blowdowns	Vented	45	45	25	Number of blowdown events: 269	26	Number of blowdown events: 290	-1	4.6%	21	0.0%	-19	(42.2%)	Blowdowns emissions are a function of activity level. Blowdown volume varies by activity, depending on the type of work performed
	Component Emissions	Vented	0	0	0	0	0	0	-	0.0%	-	0.0%	0	-	
	Component Leaks	Fugitive	0	0	0	0	0	0	-	-	-	0.0%	0	-	
Distribution M&R Stations	Station Leaks & Emissions				NA	NA	NA	NA							CPUC approved transitioning to leak-based emission factors to estimate Distribution M&R Stations Emission. SDG&E does have the leak-based data and information for 2020-2021. Therefore, it is omitting this category from its total emissions and replacing it with the added "Component Leaks Vented" and "Component Leaks Fugitive" as Emission Source Categories on Line 31&32
		Fugitive	80,978	0					NA	NA	NA	NA	NA	NA	
	All Damages	Fugitive	NA	NA					-	-	-	0.0%	-	-	
	Blowdowns	Vented	16	16	16	Number of blowdowns: 2,688	16	Number of blowdowns: 2,660	-	0.0%	(28)	0.0%	0	1.8%	
	Component Emissions	Vented	NA	0	269	Number of emission items: 0	0	Number of emission items: 0	-	-		0.0%	NA	NA	As a result of the CPUC's approval of transitioning to leak-based emission factors to estimate Distribution M&R Stations Emission as well as transferring Farm Taps' emissions to Appendix 5, SDG&E Added "Components Emissions" row to the summary appendix to demonstrate vented emission of Distribution M&R Stations.  As a result of the CPUC's approval of transitioning to leak-based emission factors to estimate Distribution M&R Stations Emission as well as transferring Farm Taps' emissions to Appendix 5, SDG&E Added "Components Leaks" row to the summary appendix to demonstrate fugitive emissions of Distribution M&R Stations
	Component Leaks					Number of leaks: 37	219	Number of leaks: 35							To allow apples-to-apples comparability and data availability, the 2019 Data columns have been updated to reflect the approval of transferring Distribution Farm Taps' Emissions from Appendix 2 to Appendix 5.  An additional tab was added to Appendix 5 titled "2020 Updated Component Leaks" to show the updated 2019 vented emissions data from Distribution M&R Stations.
Customer Meters		Fugitive	NA	269					(50)			0.0%	NA	NA	
	Meter Leaks	Fugitive	136,261	126,261	130,208	Number of meters: 901,064	133,036	Number of meters: 906,136	738	0.6%	5,072	0.6%	4,775	3.8%	
	All Damages	Fugitive	NA	NA	963	Number of damages: 191	795	Number of damages: 145	(168)	(17.5%)	(46)	0.0%	NA	NA	Emissions associated with damages vary based on damage severity, damaged asset dimensions, and pipeline pressure
Underground Storage	Vented Emissions	Vented	54	54	58	Number of blowdown events: 53,767	45	Number of blowdown events: 53,410	(13)	(24.4%)	(357)	0.0%	-9	(16.7%)	
	Storage Leaks & Emissions	Fugitive	0	0					-	#DIV/0!	-	#DIV/0!	-	#DIV/0!	
	Compressor Emissions	Vented	0	0					-	#DIV/0!	-	#DIV/0!	-	#DIV/0!	
	Compressor Leaks	Fugitive	0	0					-	#DIV/0!	-	#DIV/0!	-	#DIV/0!	
	Blowdowns	Vented	0	0					-	#DIV/0!	-	#DIV/0!	-	#DIV/0!	
	Component Emissions	Vented	0	0					-	#DIV/0!	-	#DIV/0!	-	#DIV/0!	
	Component Leaks	Fugitive	0	0					-	#DIV/0!	-	#DIV/0!	-	#DIV/0!	
	Dehydrator Vent Emissions	Fugitive	0	0					-	#DIV/0!	-	#DIV/0!	-	#DIV/0!	
Unusual Large Leaks	(Description)								-	#DIV/0!	-	#DIV/0!	-	#DIV/0!	
Total			282,046	178,996	176,307	NA	181,603	NA	5,297	3%	NA	NA	2,607.48	1%	


# SDG&E June 15th, 2022

## 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 2022 June Report Appendix 8; Rev. 03/30/22

### System Wide Leak Rate Data

1/1/2021 - 12/31/2021

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
270,158	96,908,161			

#### 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
77,101	94,179,323		

\*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, 2022

### 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 2022 June Report

Appendix 8; Rev. 03/30/22

#### Summary Tables:

Natural Gas Properties	Average Mole Percent	Explanatory Notes / Comments
Methane	94.23	Rainbow
Carbon Dioxide	0.65	Rainbow
Ethane	3.91	Rainbow
C3+	0.17	Rainbow
C6+	0.003	Rainbow
Oxygen	0.2	Estimated up to limit, Not Tested
Hydrogen		Not Tested
Sulfur	0.0002529	Rainbow
Water	0.01	Estimated to limit
Carbon Monoxide		Not Tested
Particulate Matter		Not Tested
Inert Gas	1.7	Rainbow
Odorant	0.00023604	Rainbow