Emissions Summary	Baseline Year	Target Year	Target Year
	2015	2025	2030
Historical Net Emissions (Metric Tons CO2e)	7,127,540		
Forecasted Net Sales Demand Emissions (Metric Tons CO2e)		7,920,635	7,721,324
Emissions Reduction Required (% of baseline)	•	4%	22%
Emission Target (Metric Tons CO2e)		6,842,439	5,559,481
Emission Reduction Required (Metric Tons CO2e)		1,078,197	2,161,842
Clean Heat Resources Emission Reductions			
Demand Side Customer Emission Reductions (Metric Tons CO2e)			
Zemana erae castomer Emission neaddions (metho 1005 6026)		290,596	1,676,297
Recovered Methane Emissions Reductions (Metric Tons CO2e)			
Total Recovered Methane Emissions Reductions (Metric Tons CO2e)		252,988	366,796
Allowable Recovered Methane Emissions Reductions (%)		1%	5%
Allowable Recovered Methane Emissions Reductions (Metric Tons CO26	269,549	491,328	
Recovered Methane Emissions Reductions Below Allowable Limit?		Yes	Yes
Other Supply Side Resources Emissions Reductions (Metric Tons CO2e	·)		
		0	118,749
Total Emission Reductions Achieved (Metric Tons CO2e)		543,584	2,161,842
Creditable Emissions Reductions Achieved (Metric Tons CO2e)		543,584	2,161,842
Emissions Reduction Target Demonstration		2025	2030
Clean Heat Plan Projected Emissions (Net Forecast Emissions - Creditab	le Reductions)	7,377,051	5,559,482
Clean Heat Plan Emissions Target	·	6,842,439	5,559,481
Difference		534,613	0
Does CHP Portfolio Meet Target?		No	Yes

	Historical and Forecasted Usage (Dth)	2015	2022	2023	2024	2025	2026	2027	2028	2029	2030
	Sales Customer Residential	91,508,079	105,152,926	98,542,017	99,318,133	99,796,636	99,954,959	99,469,182	98,905,932	97,676,342	97,111,531
	Sales Customer Small Commercial	32,235,828	36,898,028	35,845,033	36,855,020	37,167,136	37,018,857	36,911,592	36,884,808	36,544,104	36,363,717
	Sales Customer Large Commerical	5,290,135	9,141,044	9,133,692	9,375,097	9,457,969	9,423,579	9,395,844	9,405,426	9,332,906	9,292,786
	Sales Customer Interdepartmental	49,742	7,969	27,855	27,855	27,855	27,855	27,855	27,855	27,855	27,855
	Sales Customer Interruptible	1,332,767									
	Total Sales Customer Usage	130,416,551	151,199,967	143,548,598	145,576,105	146,449,595	146,425,250	145,804,473	145,224,022	143,581,207	142,795,889
	Aggregate Sales Customers > 460,000 Mscf/yr (customer must report to EPA)	0	595,863	601,881	607,961	614,102	620,243	626,445	632,710	639,037	645,427
ns	Transport Customer Firm Transport (interruptible included in this line for 2022-2030)	92,210,458	140,607,950	144,607,432	141,208,974	132,416,411	143,412,988	136,223,791	140,169,739	139,706,891	140,002,298
Sio	Transport Customer Interruptible Transport	17,530,727									
Emissions	Transport Customer Type 3										
En	Total Transport Customer Usage	109,741,185	140,607,950	144,607,432	141,208,974	132,416,411	143,412,988	136,223,791	140,169,739	139,706,891	140,002,298
C02	System Asset Ownership Changes (+ for gains, - for losses)	0									
2	System Asset Ownership Changes (+ for gains, - for losses)	0									
Se	System Asset Ownership Changes (+ for gains, - for losses)	0									
_	Total Asset Ownership Change Usage	0	0	0	0	0	0	0	0	0	0
End	Historical Sales, Demand/Sales Forecasts										
ш	Total Usage	240,157,736	292,403,779	288,757,911	287,393,040	279,480,108	290,458,480	282,654,709	286,026,471	283,927,135	283,443,614
	Usage Net of Transport Customers & Sales Customers > 460,000 Mscf/yr	130,416,551	151,199,967	143,548,598	145,576,105	146,449,595	146,425,250	145,804,473	145,224,022	143,581,207	142,795,889
	Carbon Dioxide Emissions Resulting from Combustion of Gas by Residential, Commercial, and Industrial Customers (SB 21-264 (3)(c)(I)(B))										
	CO2	6,921,255	8,024,238	7,618,177	7,725,778	7,772,134	7,770,842	7,737,897	7,707,093	7,619,908	7,578,231
	Net End Use Emissions	6,921,255	8,024,238	7,618,177	7,725,778	7,772,134	7,770,842	7,737,897	7,707,093	7,619,908	7,578,231
	Source: EPA Subpart NN Calculation after Statutorily excluded customer types removed										
Emissions	Methane Leaked from the transportation and delivery of gas to customers, and leakages from delivery to other distribution companies (SB 21-264 (3)(c)(I)(A and C)										
4	CH4	206,286			149,571	148,501	147,431	146,359	145,235	144,163	143,093
동	Total Estimated Leakage	206,286			149,571	148,501	147,431	146,359	145,235	144,163	143,093
LDC	Source: EPA Subpart W Calculations (our calculation of subpart W emissions factor)										
_	Total Covered Emissions (Metric Tons CO2e)										
	Total Covered Eliliosions (interne Folis Coze)										

			2025 Emissions Reductions		2030 Emissions Reductions
Demand Side Clean Heat Resources	Status	2025 Savings (Dth)	(tCO2e)	2030 Savings (Dth)	(tCO2e)
Additional Gas DSM	New	1,269,597	67,378	3,210,793	170,398
Electrification	New	4,206,076	223,218	28,375,513	1,505,899
Total Demand Side Reductions		5,475,673	290,596	31,586,307	1,676,297
	<u> </u>				_

Potential supporting documentation sources

Supply Side Recovered Methane Resources		2025 Replacement (Dth)	2025 Methane Credits (tCO2e)	2030 Replacement (Dth)	2030 Methane Credits (tCO2e)
Livestock	New	2,288,481	224,753	2,288,481	224,754
Landfill Gas	New	370,000	28,235	999,000	69,761
Coal Mine Methane	New	0	0	140,671	72,281
MSW	New	0	0	0	0
Recovered Methane Totals		2,658,481	252,988	3,428,152	366,796

Supporting

documentation source

Recovered Methane Protocol Calculated Annual Credits

			2025 Emissions Reduction	S	2030 Emissions Reductions
Supply Side Clean Heat Resources		2025 Replacement (Dth)	(tCO2e)	2030 Replacement (Dth)	(tCO2e)
Hydrogen	New	0	0	3,664,305	118,749
Supply Side Reductions		0	0	3,664,305	118,749
Grand Totals		8,134,154	543,584	38,678,764	2,161,842

Supporting

documentation sources

Calculation of net emissions savings from hydrogen project

				Gas Leakage CH4		Clean Heat Resource		
	Net Customer Sales Gas	Customer End Use CO2		Emissions (metric tons	Total Emissions (metric	Emissions Reductions	Estimated Net Emissions	Percent Reduction from
Year	Forecasted (Dth)	Emissions (metric tons)	Gas Leakage (scf)	CO2e)	tons CO2e)	(metric tons CO2e)	(Metric Tons CO2e)	Baseline
2035	99,079,598	5,258,191	0	143,093	5,401,284	2,161,842	3,239,442	55%
2040	94,109,492	4,994,426	0	143,093	5,137,518	2,161,842	2,975,676	58%
2045	89,438,923	4,746,557	0	143,093	4,889,650	2,161,842	2,727,808	62%
2050	88,762,608	4,710,664	0	143,093	4,853,757	2,161,842	2,691,915	62%

		Emission Factors
CO2	117 lbs/MMBtu gas combusted	Factor for 1000/ CO2 conversion in Subnert NN
CO2	0.05307 Metric Ton/Dth	Factor for 100% CO2 conversion in Subpart NN
		Conversion Constants

2000 lbs/Short Ton 2204.62 lbs/Metric Ton

Lookup Tables

Status Look-up	Description
Approved	Approved in a prior PUC decision
Pending	Subject to current PUC proceeding
New	Proposed new resource in Clean Heat Plan
Required	Required by federal, state, or local statute or regulation