2025 Greenhouse Gas Inventory

Description: Puget Sound Energy (PSE) serves more than 1.3 million electric customers and more than 900,000 natural gas customers in 10 counties. Our service territory includes the vibrant Puget Sound area and covers more than 6,000 square-miles, stretching from south Puget Sound to the Canadian border, and from central Washington's Kittitas Valley west to the Kitsap Peninsula. PSE's primary sources of direct GHG emissions are due to its role as an electric power provider and its natural gas operations, including pipeline leaks, gas storage, fugitive emissions and consumption by the end-user.

Industry: 22 – Utilities

Address: 355 110th Avenue NE
Bellevue, WA 98004

Issued: October 2026

Reporting Information

Emissions Year: January 1, 2025 – December 31, 2025
Reporting Protocol: GHG Protocol
Additional Reporting Standards: The Climate Registry's General Reporting Protocol 3.0
Greenhouse Gases (GHGs): Carbon dioxide (CO_2), methane (CH_4), nitrous oxide (N_2O), sulfur hexafluoride (SF_6) and hydrofluorocarbons (HFCs)[1]
Global Warming Potential (GWP) Standard: AR5[2]
Consolidation Methodology: Equity Share
North American Industry Classification System (NAIC) Codes: 221112 (Fossil Fuel Electric Power Generation) and 221210 (Natural Gas Distribution)
Geography: Washington State

PSE Power Generation Fleet Information

Facility Name	Resource Type	Equity Share
Lower Baker River	Hydro	100%
Snoqualmie Falls	Hydro	100%
Upper Baker River	Hydro	100%
Hopkins Ridge	Wind	100%
Lower Snake River	Wind	100%
Beaver Creek	Wind	100%
Wild Horse	Wind and Solar	100%
Encogen	Natural Gas/Oil	100%
Ferndale	Natural Gas/Oil	100%
Frederickson	Natural Gas/Oil	100%
Fredonia	Natural Gas/Oil	100%
Whitehorn	Natural Gas/Oil	100%
Frederickson (Freddy) Unit 1	Natural Gas	49.85%
Goldendale	Natural Gas	100%
Mint Farm	Natural Gas	100%
Sumas	Natural Gas	100%
Crystal Mountain	Oil	100%
Colstrip	Coal	25%

[1] The remaining gases, perfluorocarbons (PFCs) and nitrogen trifluoride (NF_3), are not currently accounted for in the inventory due to a lack of robust data collection on usage at this time. These GHGs are not generally identified as significant emission sources in the electric and natural gas utility sectors.
[2] Specific GWP values are listed in the attached Greenhouse Gas Inventory tables.

Reporting Boundary

PSE inventories its Scope 1, 2 and 3 emissions as follows:

- Scope 1: direct emissions from PSE-owned facilities[3]
- Scope 2: indirect emissions associated with purchased energy for PSE use
- Scope 3: indirect emissions attributed to PSE's activities that are not owned or controlled by PSE

PSE's Scope 1 and 2 emissions are dominated by CO_2 produced during electricity generation. The majority of PSE's Scope 3 emissions are derived from natural gas sales to end-users and electricity purchased from other generators to serve our customer load.

Line losses associated with the electricity purchased to serve PSE customer load are included in Scope 2. For the 2025 inventory, the line loss factor was based on the NWPP subregion value derived using based on the U.S. Environmental Protection Agency (EPA) eGRID methodology and eGRID input datasets (4.4% for 2024).

The attached tables summarize PSE's GHG inventory by scope and source. Emissions are adjusted for RECs bought and sold.

Scope 3 Indirect Emissions Disclosure

PSE currently only calculates four of the 15 Scope 3 categories. These categories are fuel- and energy-related activities (category 3), waste generated in operations (category 5), employee commuting (category 7) and use of sold products (category 11). Scope 3 emissions from firm contract purchased electricity were calculated using the amount of electricity purchased, broken down by the electricity generation technology (e.g., coal, natural gas or petroleum).[4] Emissions from purchases where generation-specific information is unavailable are estimated using applicable regional or grid-based emission factors.

Natural gas distributed to PSE customers is considered "Direct Use Phase Emissions" and, therefore, emissions can be calculated with the same methodology that is used for combustion emissions.

Exclusion of Miniscule Sources

PSE has not included refrigerants and small emergency generators in its GHG inventory because the associated emissions are determined to be immaterial and below our *de minimis* threshold compared to the total Scope 1 and 2 emissions (<5% materiality threshold). Refrigerants are used in office spaces and vehicles for cooling and fire suppression, while the small emergency generators provide back-up power if needed.

[3] Line losses associated with owned generation are included in Scope 1 emissions to avoid double-counting.
[4] GHG Protocol, Category 3: Fuel- and Energy-Related Activities not included in Scope 1 or Scope 2.

Puget Sound Energy - 2025 Greenhouse Gas Inventory Summary

Emission Sources	Energy Amount (UOM)[1]	Emissions (metric ton)					Emissions in CO_2 Equivalents (CO_2e) - 100-Year Timeframe (metric ton CO_2e)					
		CO_2	CH_4	N_2O	SF_6	HFCs	CO_2	CH_4	N_2O	SF_6	HFCs	Total CO_2e
Scope I												
Total PSE-owned Electric Operations	12,033,400,188 kWh	5,265,892	327.7	45.190	0.159	0	5,265,892	9,174	11,975.2	3,727	0	5,290,769
Total PSE-owned Natural Gas Operations[2]	1,094,818,385 thm	15,618	1,124.7	0.022	0	0	15,618	31,492	5.8	0	0	47,113
Total PSE-owned Other Operations	—	9,711	0.3	0.075	0	0.311	9,711	8	19.9	0	211.0	9,949
Total Scope I		**5,291,220**	**1,452.7**	**45.287**	**0.159**	**0.311**	**5,291,220**	**40,675**	**12,001.0**	**3,727**	**211.0**	**5,347,832**
Scope II												
Total Scope II, Location-Based[3]		**141,251**	**11.5**	**1.720**	**0**	**0**	**141,251**	**321**	**455.9**	**0**	**0**	**142,028**
Total Scope II, Market-Based		**154,392**	**12.5**	**1.810**	**0**	**0**	**154,392**	**349**	**479.7**	**0**	**0**	**155,221**
Scope III												
Total Electricity Purchases	19,671,997,131 kWh	2,423,368	195.6	27.921	0	0	2,423,368	5,476	7,399.0	0	0	2,436,243
Total Natural Gas Supply	1,110,499,555 thm	5,828,046	109.8	10.984	0	0	5,828,046	3,075	2,910.7	0	0	5,652,033
Other	—	98,166	0	0	0	0	98,166	0	0	0	0	98,166
Total Scope III		**8,251,414**	**305.4**	**38.905**	**0**	**0**	**8,251,414**	**8,551**	**10,309.8**	**0**	**0**	**8,186,442**

Emission Sources	Energy Amount (kWh)[4]	Total CO_2e (metric ton)[5]	CO_2e Emission Intensity (lb/kWh)	CO_2e Emission Intensity (metric ton/MWh)
Total Electric Operations	**21,443,753,040 kWh**	**5,834,983**	**0.596**	**0.270**

Global Warming Potential for 100-year lifecycle (AR5)

CO_2	CH_4	N_2O	SF_6
1	28	265	23,500

2024 Subregion emission rate derived using U.S. EPA eGRID methodology (lb/MWh)

CO_2	CH_4	N_2O
262.72	0.021	0.003

[1] UOM stands for unit of measure.
[2] Beginning in 2025, 40 CFR 98 Subpart W incorporates revised emission factors based on new empirical data finalized by EPA in May 2024. As a result, year-over-year changes between 2024 and 2025 reflect methodological updates rather than operational changes. Prior-year emissions have not been restated, consistent with EPA GHG reporting program reporting requirements.
[3] Scope 2 emissions are calculated using NWPP electricity emission factors based on the U.S. EPA eGRID methodology. For 2024, the factors were generated by the Cornerstone Sustainability Data Initiative using EPA eGRID source code and 2024 input datasets because an official EPA eGRID 2024 dataset had not yet been released.
[4] The energy amount listed excludes wholesale and customer green programs (i.e, Green Direct and Green Power programs).
[5] The CO_2e metric tons listed represents PSE's electric operation emissions (e.g., generation, electricity purchases and line losses) after excluding the emissions attributed to wholesale, which are determined to based on PSE's overall electricity portfolio after removing customer green programs (i.e., Green Direct and Green Power programs).

Puget Sound Energy - 2025 Greenhouse Gas Inventory, Scope 1

Emission Sources	Energy Amount (UOM)[1]	Emissions (metric ton)					Emissions in CO_2 Equivalents (CO_2e) - 100-Year Timeframe (metric ton CO_2e)					
		CO_2	CH_4	N_2O	SF_6	HFCs	CO_2	CH_4	N_2O	SF_6	HFCs	Total CO_2e
Scope I												
Electric Operations												
Hydro	866,387,500 kWh	0	0	0	0	0	0	0	0.0	0	0	0
Coal	2,300,267,000 kWh	2,321,118	272.9	39.702	0	0	2,321,118	7,642	10,520.9	0	0	2,339,281
Natural Gas/ Oil	6,929,435,139 kWh	2,944,774	54.7	5.488	0	0	2,944,774	1,533	1,454.3	0	0	2,947,761
Wind	1,937,310,549 kWh	0	0	0	0	0	0	0	0.0	0	0	0
Electrical Transmission and Distribution Equipment	—	0	0.0	0.000	0.159	0	0	0	0.0	3,727	0	3,727
Total PSE-owned Electric Operations	**12,033,400,188 kWh**	**5,265,892**	**327.7**	**45.190**	**0.159**	**0**	**5,265,892**	**9,174**	**11,975.2**	**3,727**	**0**	**5,290,769**
Natural Gas Operations[2]												
Distribution	1,102,658,970 thm	9,288	1,095.8	0.017	0	0	9,288	30,683	4.6	0	0	39,975
Underground Storage	-7,840,585 thm[3]	6,330	28.9	0.005	0	0	6,330	810	1.2	0	0	7,138
Total PSE-owned Natural Gas Operations	**1,094,818,385 thm**	**15,618**	**1,124.7**	**0.022**	**0**	**0**	**15,618**	**31,492**	**5.8**	**0**	**0**	**47,113**
Other Operations												
PSE-owned Vehicle Fleet	—	9,711	0.3	0.075	0	0.311	9,711	8	19.9	0	211.0	9,949
Total PSE-owned Other Operations	—	**9,711**	**0.3**	**0.075**	**0**	**0.311**	**9,711**	**8**	**19.9**	**0**	**211.0**	**9,949**
Total Scope I		**5,291,220**	**1,452.7**	**45.287**	**0.159**	**0.311**	**5,291,220**	**40,675**	**12,001.0**	**3,727**	**211.0**	**5,347,832**

Scope I Biogenic Sources	Biogenic CO_2 Emissions (metric ton CO_2)
Electric Operations - Biofuel	523.49

[1] UOM stands for unit of measure.
[2] Beginning in 2025, 40 CFR 98 Subpart W incorporates revised emission factors based on new empirical data finalized by EPA in May 2024. As a result, year-over-year changes between 2024 and 2025 reflect methodological updates rather than operational changes. Prior-year emissions have not been restated, consistent with EPA GHG reporting program reporting requirements.
[3] Therms listed for underground storage represents the net sum of injections and withdrawals within the calendar year.

Puget Sound Energy - 2025 Greenhouse Gas Inventory, Scope 2

Emission Sources	Energy Amount (UOM)[1]	Emissions (metric ton)					Emissions in CO_2 Equivalents (CO_2e) - 100-Year Timeframe (metric ton CO_2e)					
		CO_2	CH_4	N_2O	SF_6	HFCs	CO_2	CH_4	N_2O	SF_6	HFCs	Total CO_2e
Scope II												
Location-Based[2]												
Purchased Heating	41,059 thm	143	0.0	0.002	0	0	143	0	0.5	0	0	144
Purchased Electricity	71,093,851 kWh	8,472	0.7	0.103	0	0	8,472	19	27.3	0	0	8,519
Sold renewable energy credits (RECs)	0 kWh	0	0.0	0.000	0	0	0	0	0.0	0	0	0
Line Losses[3]	1,113,030,649 kWh	132,636	10.8	1.616	0	0	132,636	301	428.1	0	0	133,365
Total Scope II, Location-Based	—	**141,251**	**11.5**	**1.720**	**0**	**0**	**141,251**	**321**	**455.9**	**0**	**0**	**142,028**
Market-Based												
Purchased Heating	41,059 thm	143	0.0	0.002	0	0	143	0	0.5	0	0	144
Purchased Electricity	71,093,851 kWh	8,472	0.7	0.103	0	0	8,472	19	27.3	0	0	8,519
Sold renewable energy credits (RECs)	0 kWh	0	0.0	0.000	0	0	0	0	0.0	0	0	0
Line Losses[3]	1,113,030,649 kWh	145,776	11.8	1.705	0	0	145,776	330	451.9	0	0	146,558
Total Scope II, Market-Based	—	**154,392**	**12.5**	**1.810**	**0**	**0**	**154,392**	**349**	**479.7**	**0**	**0**	**155,221**

Scope II Biogenic Sources	Biogenic CO_2 Emissions (metric ton CO_2)
Line losses related to biogenic sources	1,028

[1] UOM stands for unit of measure.
[2] Scope 2 emissions are calculated using NWPP electricity emission factors based on the U.S. EPA eGRID methodology. For 2024, the factors were generated by the Cornerstone Sustainability Data Initiative using EPA eGRID source code and 2024 input datasets because an official EPA eGRID 2024 dataset had not yet been released.
[3] For the 2025 inventory, the line loss factor was based on the NWPP subregion value derived using based on the U.S. EPA eGRID methodology and eGRID input datasets (4.4% for 2024).

Puget Sound Energy - 2025 Greenhouse Gas Inventory, Scope 3

Emission Sources	Energy Amount (UOM)[1]	Emissions (metric ton)					Emissions in CO_2 Equivalents (CO_2e) - 100-Year Timeframe (metric ton CO_2e)					
		CO_2	CH_4	N_2O	SF_6	HFCs	CO_2	CH_4	N_2O	SF_6	HFCs	Total CO_2e
Scope III												
Electricity Purchases												
Firm Contracts	16,687,304,917 kWh	2,194,279	177.0	25.130	0	0	2,194,279	4,956	6,659.6	0	0	2,205,894
Non-Firm Contracts	2,984,692,214 kWh	229,089	18.6	2.790	0	0	229,089	520	739.5	0	0	230,349
Total Electricity Purchases	**19,671,997,131 kWh**	**2,423,368**	**195.6**	**27.921**	**0**	**0**	**2,423,368**	**5,476**	**7,399.0**	**0**	**0**	**2,436,243**
Natural Gas Supply												
Supply to End-Users	1,076,199,015 thm	5,646,047	106.4	10.641	0	0	5,646,047	2,979	2,819.8	0	0	5,651,846
RNG	34,300,540 thm	0	3.4	0.343	0	0	0	96	90.9	0	0	187
Total Natural Gas Supply	**1,110,499,555 thm**	**5,828,046**	**109.8**	**10.984**	**0**	**0**	**5,828,046**	**3,075**	**2,910.7**	**0**	**0**	**5,652,033**
Other Categories[2]	—	**98,166**	**0**	**0**	**0**	**0**	**98,166**	**0**	**0**	**0**	**0**	**98,166**
Total Scope III		**8,251,414**	**305.4**	**38.905**	**0**	**0**	**8,251,414**	**8,551**	**10,309.8**	**0**	**0**	**8,186,442**

Scope III Biogenic Sources	Biogenic CO_2 Emissions (metric ton CO_2)
Electricity Purchases	20,555
Natural Gas Supply - RNG	181,999
Total Biogenic Sources Scope III	**202,554**

Scope III Categories	Emissions in CO_2 Equivalents (CO_2e) - 100-Year Timeframe (metric ton CO_2e)
Investments	—
Franchises	—
Downstream leased assets	—
End-of-life treatment of sold products	—
Use of sold products	5,652,033
Processing of sold products	—
Downstream transportation & distribution	—
Upstream leased assets	—
Employee commuting[3]	5,149
Business travel	—
Waste generated in operations	93,017
Upstream transportation & distribution	—
Fuel- and energy-related activities	2,436,243
Capital goods	—
Purchased goods and services	—

[1] UOM stands for unit of measure.
[2] The other categories are the remaining Scope 3 categories that is not “Use of sold products” and “Fuel- and energy-related activities”.
[3] Employee commuting emissions are estimated based on a representative employee survey and scaled to the reporting-year workforce.