



Description: Puget Sound Energy (PSE) serves more than 1.2 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:** September 2025

### **Reporting Information**

Emissions Year: January 1, 2024 – December 31, 2024

Reporting Protocol: GHG Protocol

Additional Reporting Standards: The Climate Registry's General Reporting Protocol 3.0

Greenhouse Gases (GHGs): Carbon dioxide (CO<sub>2</sub>), methane (CH<sub>4</sub>), nitrous oxide (N<sub>2</sub>O), sulfur hexafluoride

(SF<sub>6</sub>) and hydrofluorocarbons (HFCs)<sup>1</sup>

Global Warming Potential (GWP) Standard: AR5<sup>2</sup>

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	<b>Equity Share</b>
Lower Baker River	Hydro	100%
Snoqualmie Falls	Hydro	100%
Upper Baker River	Hydro	100%
Hopkins Ridge	Wind	100%
Lower Snake River	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%

The remaining gases, perfluorocarbons (PFCs) and nitrogen trifluoride (NF<sub>3</sub>), 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.

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<sup>3</sup>
- 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<sub>2</sub> 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 2024 inventory, the percentage of line loss used is from eGrid subregion NWPP (4.1% for 2023).

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). For all firm Bonneville Power Administration transactions and "non-unit-specific" purchases, PSE defaults to the Washington Department of Ecology emissions intensity metric according to WAC 480-109-300(4). 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.

Line losses associated with owned generation are included in Scope 1 emissions to avoid double-counting.

<sup>&</sup>lt;sup>4</sup> GHG Protocol, Category 3: Fuel- and Energy-Related Activities not included in Scope 1 or Scope 2.

## **Puget Sound Energy - 2024 Greenhouse Gas Inventory Summary**

Emission Sources	Energy Amount			ssions ric ton)			Emissions i	n CO <sub>2</sub> Ec	uivalents (metric to		100-Yea	r Timeframe
	(ŬOM) <sup>1</sup>	CO <sub>2</sub>	CH₄	N <sub>2</sub> O	SF <sub>6</sub>	HFCs	CO <sub>2</sub>	CH₄	N <sub>2</sub> O	SF <sub>6</sub>	HFCs	Total CO₂e
Scope I												
Total PSE-owned Electric Operations	14,294,682,037 kWh	6,389,702	318.0	51.925	0.461	0	6,389,702	8,903	13,760.0	10,832	0	6,423,197
Total PSE-owned Natural Gas Operations	1,136,270,867 thm	17,447	2,710.3	0.026	0	0	17,447	75,888	6.8	0	0	93,342
Total PSE-owned Other Operations	_	9,838	0.4	0.091	0	0.305	9,838	11	24.0	0	251.8	10,124
Total Scope I		6,416,987	3,028.6	52.041	0.461	0.305	6,416,987	84,802	13,790.8	10,832	251.8	6,526,663
Scope II												
Total Scope II, Location-Based <sup>2</sup>		276,199	23.6	3.498	0	0	276,199	661	926.9	0	0	277,787
Total Scope II, Market-Based		300,180	30.1	4.398	0	0	300,180	842	1,165.4	0	0	302,188
Scope III												
Total Electricity Purchases	17,009,694,228 kWh	4,540,122	496.0	72.034	0	0	4,540,122	13,889	19,089.1	0	0	4,573,100
Total Natural Gas Supply	1,126,181,413 thm	5,980,403	112.7	11.271	0	0	5,980,403	3,156	2,986.8	0	0	5,856,292
Other	_	97,272	0	0	0	0	97,272	0	0	0	0	97,272
Total Scope III		10,520,524	608.7	83.305	0	0	10,520,524	17,045	22,075.9	0	0	10,526,663
Emission Sources	Energy Amount (kWh) <sup>3</sup>	Т	Total CO₂e (metric ton)⁴			CO₂e Emi (II	ssion Int b/kWh)	ensity		Emissior etric ton	n Intensity /MWh)	
Total Electric Operations	21.430.792.055 kWh		8.8	55.875				0.901			0.409	

#### Global Warming Potential for 100-year lifecycle (AR5)

CO <sub>2</sub>	CH₄	N <sub>2</sub> O	SF <sub>6</sub>
1	28	265	23,500

#### 2023 eGrid Subregion Emission Rate (lb/MWh)

CO <sub>2</sub>	CH₄	N <sub>2</sub> O
631.71	0.054	0.008

<sup>&</sup>lt;sup>1</sup> UOM stands for unit of measure.

 $<sup>^{2}</sup>$  The emission factors used to calculate Scope 2 emissions are from 2023 eGrid subregion NWPP.

<sup>&</sup>lt;sup>3</sup> The energy amount listed excludes wholesale and customer green programs (i.e, Green Direct and Green Power programs).

The CO<sub>2</sub>e 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 - 2024 Greenhouse Gas Inventory, Scope 1

Emission Sources	Energy Amount	Emissions (metric ton)				nergy Amount (metric ton) (metric ton CO-e)							100-Year Timeframe	
	(ŬOM) <sup>1</sup>	CO <sub>2</sub>	CH₄	N₂O	SF <sub>6</sub>	HFCs	CO <sub>2</sub>	CH₄	N <sub>2</sub> O	SF <sub>6</sub>	HFCs	Total CO₂e		
Scope I														
Electric Operations														
Hydro	869,256,800 kWh	0	0	0	0	0	0	0	0.0	0	0	0		
Coal	2,195,159,000 kWh	2,274,987	241.2	44.184	0	0	2,274,987	6,752	11,708.8	0	0	2,293,449		
Natural Gas/ Oil	9,309,857,488 kWh	4,114,715	76.8	7.740	0	0	4,114,715	2,150	2,051.2	0	0	4,118,916		
Wind	1,920,408,749 kWh	0	0	0	0	0	0	0	0.0	0	0	0		
Electrical Transmission and Distribution Equipment		0	0.0	0.000	0.461	0	0	0	0.0	10,832	0	10,832		
Total PSE-owned Electric Operations	14,294,682,037 kWh	6,389,702	318.0	51.925	0.461	0	6,389,702	8,903	13,760.0	10,832	0	6,423,197		
Natural Gas Operations														
Distribution	1,131,226,140 thm	9,409	2,672.9	0.018	0	0	9,409	74,841	4.7	0	0	84,254		
Underground Storage	5,044,727 thm <sup>2</sup>	8,038	37.4	0.008	0	0	8,038	1,047	2.2	0	0	9,087		
Total PSE-owned Natural Gas Operations	1,136,270,867 thm	17,447	2,710.3	0.026	0	0	17,447	75,888	6.8	0	0	93,342		
Other Operations														
PSE-owned Vehicle Fleet		9,838	0.4	0.091	0	0.305	9,838	11	24.0	0	251.8	10,124		
Total PSE-owned Other Operations	_	9,838	0.4	0.091	0	0.305	9,838	11	24.0	0	251.8	10,124		
Total Scope I		6,416,987	3,028.6	52.041	0.461	0.305	6,416,987	84,802	13,790.8	10,832	251.8	6,526,663		

Scope I Biogenic Sources	Biogenic CO <sub>2</sub> Emissions (metric ton CO <sub>2</sub> )
Electric Operations - Biofuel	134.73

<sup>1</sup> UOM stands for unit of measure.

<sup>&</sup>lt;sup>2</sup> Therms listed for underground storage represents the net sum of injections and withdrawals within the calendar year.

# Puget Sound Energy - 2024 Greenhouse Gas Inventory, Scope 2

Emission Sources	Energy Amount (UOM) <sup>1</sup>			nissions etric ton)			Emissions	in CO <sub>2</sub> Eo	quivalents (metric to		100-Year	Timeframe
	(UOW)	CO <sub>2</sub>	CH₄	N <sub>2</sub> O	SF <sub>6</sub>	HFCs	CO <sub>2</sub>	CH₄	N <sub>2</sub> O	SF <sub>6</sub>	HFCs	Total CO₂e
Scope II												
Location-Based <sup>2</sup>												
Purchased Heating	47,398 thm	398	0.0	0.005	0	0	398	1	1.3	0	0	400
Purchased Electricity	67,672,926 kWh	19,391	1.7	0.246	0	0	19,391	46	65.1	0	0	19,502
Sold renewable energy credits (RECs)	0 kWh	0	0.0	0.000	0	0	0	0	0.0	0	0	0
Line Losses <sup>3</sup>	894,860,280 kWh	256,410	21.9	3.247	0	0	256,410	614	860.5	0	0	257,884
Total Scope II, Location- Based	_	276,199	23.6	3.498	0	0	276,199	661	926.9	0	0	277,787
Market-Based												
Purchased Heating	47,398 thm	398	0.0	0.005	0	0	398	1	1.3	0	0	400
Purchased Electricity	67,672,926 kWh	19,391	1.7	0.246	0	0	19,391	46	65.1	0	0	19,502
Sold renewable energy credits (RECs)	0 kWh	0	0.0	0.000	0	0	0	0	0.0	0	0	0
Line Losses <sup>3</sup>	894,860,280 kWh	280,392	28.4	4.147	0	0	280,392	795	1,098.9	0	0	282,285
Total Scope II, Market- Based	_	300,180	30.1	4.398	0	0	300,180	842	1,165.4	0	0	302,188

Scope II Biogenic Sources	Biogenic CO₂ Emissions (metric ton CO₂)
Line losses related to biogenic sources	2,442

<sup>&</sup>lt;sup>1</sup> UOM stands for unit of measure.

<sup>&</sup>lt;sup>2</sup> The emission factors used to calculate Scope 2 emissions are from 2023 eGrid subregion NWPP.

 $<sup>^3</sup>$  For the 2024 inventory, the percentage of line loss used is from eGrid subregion NWPP (4.1% for 2023).

# Puget Sound Energy - 2024 Greenhouse Gas Inventory, Scope 3

Emission Sources	Energy Amount (UOM) <sup>1</sup>			nissions etric ton)			Emissions	in CO <sub>2</sub> E	quivalents (metric to		100-Year	Timeframe
	(UOW)	CO <sub>2</sub>	CH₄	N <sub>2</sub> O	SF <sub>6</sub>	HFCs	CO <sub>2</sub>	CH₄	N₂O	SF <sub>6</sub>	HFCs	Total CO₂e
Scope III												
Electricity Purchases												
Firm Contracts	12,348,248,981 kWh	3,899,413	441.3	63.920	0	0	3,899,413	12,355	16,938.9	0	0	3,928,707
Non-Firm Contracts	4,661,445,247 kWh	640,709	54.8	8.114	0	0	640,709	1,534	2,150.2	0	0	644,392
Total Electricity Purchases	17,009,694,228 kWh	4,540,122	496.0	72.034	0	0	4,540,122	13,889	19,089.1	0	0	4,573,100
Natural Gas Supply												
Supply to End-Users	1,101,633,083 thm	5,850,149	110.3	11.026	0	0	5,850,149	3,087	2,921.8	0	0	5,856,158
RNG	24,548,330 thm	0	2.5	0.245	0	0	0	69	65.1	0	0	134
Total Natural Gas Supply	1,126,181,413 thm	5,980,403	112.7	11.271	0	0	5,980,403	3,156	2,986.8	0	0	5,856,292
Other Categories <sup>2</sup>		97,272	0	0	0	0	97,272	0	0	0	0	97,272
Total Scope III		10,520,524	608.7	83.305	0	0	10,520,524	17,045	22,075.9	0	0	10,526,663

Scope III Biogenic Sources	Biogenic CO <sub>2</sub> Emissions (metric ton CO <sub>2</sub> )
Electricity Purchases	48,839
Natural Gas Supply - RNG	130,253
Total Biogenic Sources Scope III	179,093

Scope III Categories	Emissions in CO <sub>2</sub> Equivalents (CO <sub>2</sub> e) - 100-Year Timeframe (metric ton CO <sub>2</sub> e)
Investments	_
Franchises	<u> </u>
Downstream leased assets	_
End-of-life treatment of sold products	_
Use of sold products	5,856,292
Processing of sold products	_
Downstream transportation & distribution	_
Upstream leased assets	_
Employee commuting	5,198
Business travel	_
Waste generated in operations	92,074
Upstream transportation & distribution	_
Fuel- and energy-related activities	4,573,100
Capital goods	_
Purchased goods and services	_

<sup>1</sup> UOM stands for unit of measure.

<sup>&</sup>lt;sup>2</sup> The other categories are the remaining Scope 3 categories that is not "Use of sold products" and "Fuel- and energy-related activities".