2021 Sustainability Accounting Standards Board (SASB) Index

The Sustainability Accounting Standards Board (SASB) index is a voluntary reporting framework that helps businesses identify and disclose on the environmental, social and governance (ESG) topics that are most material to their sector or industry. The data listed in the table below reflects Puget Sound Energy's (PSE's) reporting metrics and data points in accordance with the SASB index for Electric Utilities & Power Generators and Gas Utilities & Distributors. The information disclosed below conform to the SASB reporting requirements and may differ from other disclosures.

SASB Index							
ELECTRIC UTILITIES & POWER GENERATORS							
Code	**Category**	**SASB Disclosure**	**Unit of Measure**	**Response**			**Notes**
Greenhouse Gas Emissions & Energy Resource Planning				**2021**	**2020**	**2019**	
IF-EU-110a.1	Quantitative	(1) Gross global Scope 1 emissions, percentage covered under (2) emissions-limiting regulations, and (3) emissions-reporting regulations	Metric tons (t) CO2-e; Percentage (%)	5,679,256; 0%; 100%	4,790,831; 0%; 100%	7,368,531; 0%; 100%	PSE Greehouse Gas Reporting; GHG emissions are not limited under regulations (0%); emissions reporting is required under 40 CFR 98 and WAC 173-441
IF-EU-110a.2	Quantitative	Greenhouse gas (GHG) emissions associated with power deliveries	Metric tons (t) CO2-e	9,116,109	8,236,797	11,398,808	PSE Greehouse Gas Reporting; sum of emissions associated with power generated and power purchased for delivery
IF-EU-110a.3	Discussion and Analysis	Discussion of long-term and short-term strategy or plan to manage Scope 1 emissions, emissions reduction targets, and an analysis of performance against those targets	n/a	PSE Greehouse Gas Reporting			
				PSE Beyond Net Zero Carbon			
IF-EU-110a.4	Quantitative	(1) Number of customers served in markets subject to renewable portfolio standards (RPS)	Number	1,196,859	1,181,577	1,165,699	Average annual number of customers from 10k filed with SEC.
		(2) Percentage fulfilment of RPS target by market	Percentage (%)	100%	100%	100%	
Air Quality				**2021**	**2020**	**2019**	
IF-EU-120a.1	Quantitative	Air emissions of the following pollutants: (1) NOx (excluding N2O); percentage of each in or near areas of dense population	Metric tons (t); Percentage (%)	2,544.7; 31%	2,071.5; 32%	5,042.9; 14%	Not all facilities are required to report for lead and/or mercury. Only reported emissions are included.
		Air emissions of the following pollutants:(2) SOx; percentage of each in or near areas of dense population		964.8; 3%	755.0; 3%	2,983.8; 1%	
		Air emissions of the following pollutants: (3) particulate matter (PM10; percentage of each in or near areas of dense population		203.5; 60%	168.1; 59%	551.0; 21%	
		Air emissions of the following pollutants:(4) lead (Pb); percentage of each in or near areas of dense population		<0.01; 100%	<0.01; 100%	<0.01; 100%	
		Air emissions of the following pollutants: (5) mercury (Hg); percentage of each in or near areas of dense population		0.01; 0%	0.01; 100%	0.02; 100%	

ELECTRIC UTILITIES & POWER GENERATORS							
Code	**Category**	**SASB Disclosure**	**Unit of Measure**	**Response**			**Notes**
Water Management				**2021**	**2020**	**2019**	
IF-EU-140a.1	Quantitative	(1) Total water withdrawn, percentage of each in regions with High or Extremely High Baseline Water Stress	Thousand cubic meters (m^3); Percentage (%)	10,839; 0%	9,801; 0%	13,761; 0%	Quantity is for thermoelectric facilities only.
		(2) Total water consumed, percentage of each in regions with High or Extremely High Baseline Water Stress		9,490; 0%	8,542; 0%	12,583; 0%	
IF-EU-140a.2	Quantitative	Number of incidents of non-compliance associated with water quantity and/or quality permits, standards, and regulations	Number	0	0	0	Per guidance, listing NOVs that resulted in formal enforcement action(s).
IF-EU-140a.3	Discussion and Analysis	Description of water management risks and discussion of strategies and practices to mitigate those risks	n/a	For the hydroelectric projects there have been shifts in western Washington's climatic background that PSE has tracked (mostly at the Baker Project). An earlier, wetter, more extreme flood season has led to a more aggressive drawdown at the Baker Project to increase storage within the operational license constraints. The summers are drier so PSE holds on to the water longer into July and August than it used to. This ensures better compliance with the minimum instream flow and more water is available to generate during August heat waves. The Snoqualmie Project is run-of-river. Therefore, PSE has no ability to change its operations due to a changing hydroclimate. PSE generation facilities are all located in "Low" water risk areas according to the WRI Aquaduct tool. While a changing climate can have impacts anywhere, PSE's generating facilities are not considered to have limitiations due to water scarcity in the near term.			
Coal Ash Management				**2021**	**2020**	**2019**	
IF-EU-150a.1	Quantitative	Amount of coal combustion residuals (CCR) generated	Metric tons (t)	626,041	575,503	864,474	
	Quantitative	Percentage recycled	Percentage (%)	0.05%	0.03%	0%	
IF-EU-150a.2	Quantitative	Total number of coal combustion residual (CCR) impoundments	Number	7 CCR impoundments	7 CCR impoundments	7 CCR impoundments	
	Quantitative	Broken down by hazard potential classification and structural integrity assessment	Number	IF-EU-150a.2 Number by EPA Hazard Potential Classification, Broken Down by EPA Structural Integrity Assessment.docx			
Energy Affordability				**2021**	**2020**	**2019**	
IF-EU-240a.1	Quantitative	Average retail electric rate for (1) residential customers	Rate ($/kWh)	$ 0.1148	$ 0.1081	$ 0.1059	
		Average retail electric rate for (2) commercial customers		$ 0.1075	$ 0.0997	$ 0.0967	
		Average retail electric rate for (3) industrial customers		$ 0.1000	$ 0.0927	$ 0.0904	
		Average retail electric rate for other customers		$ 0.2258	$ 0.2237	$ 0.2158	
IF-EU-240a.2	Quantitative	Typical monthly electric bill for residential customers for (1) 500 kWh of electricity delivered per month	Reporting currency	$ 52.98	$ 53.99	$ 57.15	
		Typical monthly electric bill for residential customers for (2) 1,000 kWh of electricity delivered per month		$ 106.59	$ 108.72	$ 115.39	
IF-EU-240a.3	Quantitative	Number of residential customer electric disconnections for non-payment	Number	0	5,936	31,578	For 2021, there is a moratorium on disconnects for non-payment ordered by WA during the pandemic.
		Percentage reconnected within 30 days	Percentage (%)	n/a	96.5%	96.3%	
IF-EU-240a.4	Discussion and Analysis	Discussion of impact of external factors on customer affordability of electricity, including the economic conditions of the service territory	n/a	Energy Burden Analysis Report - 220066-67-PSE-Exh-BDJ-11-1-31-22.pdf			
				Help During the Pandemic - Pg 32 of 2021 ESG Report			
				Assistance Programs			
				Customer Benefits Assessment (IRP Appendix K)			
				Our Ethics and Goals - pg. 7-8 of ESG Report			

ELECTRIC UTILITIES & POWER GENERATORS							
Code	**Category**	**SASB Disclosure**	**Unit of Measure**	**Response**			**Notes**
Workforce Health & Safety				**2021**	**2020**	**2019**	
IF-EU-320a.1	Quantitative	(1) Total recordable incident rate (TRIR)	Rate ((statistic count × 200,000) / hours worked)	1.29	1.45	1.88	Includes all employees on our payroll (working hours only) but does not include contractors
		(2) Fatality rate		0	0	0	
		(3) Near miss frequency rate (NMFR)		8.36	7.93	6.23	
End-Use Efficiency & Demand				**2021**	**2020**	**2019**	
IF-EU-420a.1	Quantitative	Percentage of electric utility revenues from rate structures that (1) are decoupled	Percentage (%)	51%	55%	54%	
		Percentage of electric utility revenues from rate structures that (2) contain a lost revenue adjustment mechanism (LRAM)		N/A	N/A	N/A	
IF-EU-420a.2	Quantitative	Percentage of electric load served by smart grid technology	Percentage (%) by megawatt hours (MWh)	70%	49%	33%	Assumes KWh for every AMI meter is equivalent.
IF-EU-420a.3	Quantitative	Customer electricity savings from efficiency measures, by market	Megawatt hours (MWh)	169,810	221,001	237,925	
Nuclear Safety & Emergency Management				**2021**	**2020**	**2019**	
IF-EU-540a.1	Quantitative	Total number of nuclear power units, broken down by U.S. Nuclear Regulatory Commission (NRC) Action Matrix Column	Number	N/A	N/A	N/A	
IF-EU-540a.2	Discussion and Analysis	Description of efforts to manage nuclear safety and emergency preparedness	n/a	N/A	N/A	N/A	
Grid Resiliency				**2021**	**2020**	**2019**	
IF-EU-550a.1	Quantitative	Number of incidents of non-compliance with physical and/or cybersecurity standards or regulations	Number – Penalty	0	0	1	Does not include issues identified by PSE as potential non-compliance and submitted to WECC for disposition. Compliance Exception is non-compliance identified by PSE with WECC determination of minor non-compliance without penalty or enforcement action.
			Number – Find, Fix, Track	0	0	5	
			Number – Compliance Exception	1	0	0	
IF-EU-550a.2	Quantitative	(1) System Average Interruption Duration Index (SAIDI), inclusive of major event days	Minutes	849.1	414	550.3	All values are inclusive of major event days
		(2) System Average Interruption Frequency Index (SAIFI), inclusive of major event days	Number	2.27	1.70	1.57	
		(3) Customer Average Interruption Duration Index (CAIDI), inclusive of major event days	Minutes, Number	373.5	243.5	351.1	

[1] PSE is currently compliant with the RPS in Washington State. Looking ahead, Washington signed into law the Clean Electricity Transformation Act (CETA) in 2019, which requires that generation for Washington customers be coal-free by 2025, greenhouse gas neutral by 2030, and 100 percent renewable or non-emitting by 2045. PSE has embraced the spirit of CETA in its Beyond Net Zero Carbon goals and aspirations [hyperlink] and in its Clean Energy Implementation Plan [hyperlink]. The CEIP proposes interim targets demonstrating the progress PSE will make in acquiring renewable and non-emitting resources towards meeting the overarching goals of CETA. This plan is currently before the Washington Utilities and Transportation Commission for a decision to either approve, deny or approve with conditions.

ELECTRIC UTILITIES & POWER GENERATORS							
Code	**Category**	**Activity Metric**	**Unit of Measure**		**Response**			**Notes**
Activity Metrics					**2021**	**2020**	**2019**	
IF-EU-000.A	Quantitative	Number of: (1) residential customers served	Number		1,053,027	1,039,596	1,025,024	Number of customers reported is average for each year. "Other" includes customers such as munitipalities that provide street lighting
		Number of: (2) commercial customers served			132,581	130,924	129,944	
		Number of: (3) industrial customers served			3,267	3,289	3,328	
		Number of "Other" customers served (see Notes)			7,886	7,668	7,323	
IF-EU-000.B	Quantitative	Total electricity delivered to: (1) residential customers	Megawatt hours (MWh)		11,479,045	10,976,068	10,756,628	Wholesale customers are sales to other utilities and marketers in the PSE 10-K.
		Total electricity delivered to: (2) commercial customers			8,402,057	7,942,292	8,837,457	
		Total electricity delivered to: (3) industrial customers			1,082,718	1,095,916	1,161,149	
		Total electricity delivered to: (4) all other retail customers			79,998	81,261	85,302	
		Total electricity delivered to: (5) wholesale customers			3,540,311	3,147,973	3,740,016	
IF-EU-000.C	Quantitative	Length of transmission and distribution lines	Kilometers (km)		Transmission lines: ~3,578 km (circuit length); Distribution lines: ~37,566 km (circuit length)	Transmission lines: ~3,578 km (circuit length); Distribution lines: ~37,535 km (circuit length)	Transmission lines: ~3,568 km (circuit length); Distribution lines: ~37,631 km (circuit length)	
IF-EU-000.D	Quantitative	Total electricity generated, percentage by major energy source, percentage in regulated markets	Megawatt hours (MWh), Percentage (%)	Total Generation (MWh)	12,949,384	11,700,918	13,420,043	Generation from PSE-controlled resources. PSE is regulated by the Washington Utilities and Transportation Commission.
				Hydro	7%	8%	5%	
				Coal	20%	18%	32%	
				Natural Gas / Oil	57%	55%	50%	
				Wind	16%	19%	12%	
IF-EU-000.E	Quantitative	Total wholesale electricity purchased	Megawatt hours (MWh)		13,115,897	13,154,155	12,459,363	

GAS UTILITIES & DISTRIBUTORS							
Code	**Category**	**SASB Disclosure**	**Unit of Measure**	**Response**			**Notes**
Energy Affordability				**2021**	**2020**	**2019**	
IF-GU-240a.1	Quantitative	Average retail gas rate for (1) residential services only	Rate ($/MMBtu)	$ 11.820	$ 11.180	$ 10.140	
		Average retail gas rate for (2) commercial services only		$ 10.030	$ 9.270	$ 7.860	
		Average retail gas rate for (3) industrial customers services only		$ 8.630	$ 8.050	$ 6.850	
		Average retail gas rate for interuptive services only		$ 5.110	$ 5.000	$ 4.070	
		Average retail gas rate for (4) transportation services only		$ 0.910	$ 0.810	$ 0.890	
IF-GU-240a.2	Quantitative	Typical monthly gas bill for residential customers for (1) 50 MMBtu of gas delivered per year	Reporting currency	$ 46.28	$ 50.39	$ 53.20	
		Typical monthly gas bill for residential customers for (2) 100 MMBtu of gas delivered per year		$ 81.13	$ 89.27	$ 94.88	
IF-GU-240a.3	Quantitative	Number of residential customer gas disconnections for non-payment	Number	0	1,757	8,066	For 2021, there is a moratorium on disconnects for non-payment ordered by WA during the pandemic.
		Percentage reconnected within 30 days	Percentage	n/a	85.5%	76.2%	
IF-GU-240a.4	Discussion and Analysis	Discussion of impact of external factors on customer affordability of gas, including the economic conditions of the service territory	N/A	Energy Burden Analysis Report			
				Help During the Pandemic			
				Assistance Programs			
				Customer Benefits Assessment (IRP Appendix K)			
				Our Ethics and Goals - pg. 7-8 of ESG Report			
End-Use Efficiency				**2021**	**2020**	**2019**	
IF-GU-420a.1	Quantitative	Percentage of gas utility revenues from rate structures that (1) are decoupled	Percentage (%)	37%	36%	36%	
		Percentage of gas utility revenues from rate structures that (2) contain a lost revenue adjustment mechanism (LRAM)		N/A	N/A	N/A	
IF-GU-420a.2	Quantitative	Customer gas savings from efficiency measures by market	Million British Thermal Units (MMBtu)	23,644,710	41,028,100	32,281,590	

GAS UTILITIES & DISTRIBUTORS							
Code	**Category**	**SASB Disclosure**	**Unit of Measure**	**Response**			**Notes**
Integrity of Gas Delivery Infrastructure				**2021**	**2020**	**2019**	
IF-GU-540a.1	Quantitative	Number of (1) reportable pipeline incidents	Number	0	1	2	
		Number of (2) Corrective Action Orders (CAO)		0	0	0	
		Number of (3) Notices of Probable Violation (NOPV)		0	0	0	
IF-GU-540a.2	Quantitative	Percentage of distribution pipeline that is (1) cast and/or wrought iron	Percentage (%) by length	0%	0%	0%	
		Percentage of distribution pipeline that is (2) unprotected steel		0%	0%	0%	
IF-GU-540a.3	Quantitative	Percentage of gas (1) transmission pipelines inspected	Percentage (%) by length	Leak Survey: 100% ECDA: 0% Inline Inspection: 5% TIMP HCA 7-year Plan: 77%	Leak Survey: 100% ECDA: 5% Inline Inspection: 13% TIMP HCA 7-year Plan: 59%	Leak Survey: 100% ECDA: 2% Inline Inspection: 3% TIMP HCA 7-year Plan: 29%	Transmission system is assessed by annual leak survey and additionally High Consequence Areas are assessed by Inline Inspection or external corrosion direct assessment (ECDA) on a 7 year cycle. Numbers are amount assessed by each method as a percentage of the overall transmission mileage. TIMP HCA 7-year plan are cumulative percentages based on overall HCA mileage, assuming the 7 year cycle begins in 2017.
		Percentage of gas (2) distribution pipelines inspected		Annual Leak Survey: 42% Cumulative Leak Survey (annual): 100% Cumulative Leak Survey (3-year): 100%	Annual Leak Survey: 49% Cumulative Leak Survey (annual): 100% Cumulative Leak Survey (3-year): 66%	Annual Leak Survey: 42% Cumulative Leak Survey (annual): 100% Cumulative Leak Survey (3-year): 33%	Annual Leak Survey includes distribution mileage on both 3-year and annual leak survey cycles. Cumulative numbers are shown separately for mileage designated for annual and 3-year leak survey, assuming 3-year cycle begins in 2019.
IF-GU-540a.4	Discussion and Analysis	Description of efforts to manage the integrity of gas delivery infrastructure, including risks related to safety and emissions	N/A	Gas Reliability Gas Inspections PSE 2021 - 2023 Pipeline Replacement Plan 2021 PSE Integrated Resource Plan Evironmental, Social and Governance Report (Oct 2021) 2021 PSE Service Quality Report 2020 PSE Service Quality Report 2019 PSE Service Quality Report			

GAS UTILITIES & DISTRIBUTORS							
Code	**Category**	**Activity Metric**	**Unit of Measure**	**Response**			**Notes**
Activity Metrics				**2021**	**2020**	**2019**	
IF-GU-000.A	Quantitative	Number of: (1) residential customers served	Number	801,186	791,612	782,413	"Interruptible" customers are commericial and industrial customers with interruptible service contracts.
		Number of: (2) commercial customers served		56,477	56,303	56,113	
		Number of: (3) industrial customers served		2,277	2,293	2,304	
		Number of "Interruptible" customers served		278	288	367	
IF-GU-000.B	Quantitative	Amount of natural gas delivered to: (1) residential customers	Million British Thermal Units (MMBtu)	6,110,280	5,928,110	6,053,130	"Interruptible" customers are commericial and industrial customers with interruptible service contracts.
		Amount of natural gas delivered to: (2) commercial customers		2,700,220	2,506,110	2,776,390	
		Amount of natural gas delivered to: (3) industrial customers		227,940	219,460	229,150	
		Amount of natural gas delivered to: (4) transferred to a third party		-	-	-	
		Amount of natural gas delivered to "interruptible" customers		461,150	452,400	451,760	
IF-GU-000.C	Quantitative	Length of gas (1) transmission pipelines	Kilometers (km)	44	44	44	
		Length of gas (2) distribution pipelines		42,626	42,337	42,072	