



November 1, 2024

Filed Via Web Portal

Jeff Killip, Executive Director and Secretary Washington
Utilities and Transportation Commission
621 Woodland Square Loop SE
Lacey, WA 98503

**RE: Advice No. 2024-44
Puget Sound Energy's Electric Tariff Revision**

Dear Executive Director Killip:

Pursuant to RCW 80.28.060 and WAC 480-80-101 and WAC 480-80-105(1)(c), please find enclosed for filing the following proposed revisions to the WN U-60, Tariff G for electric service of Puget Sound Energy ("PSE"):

10th Revision of Sheet No. 91-B, Schedule 91 Purchases from Qualifying Facilities of Five Megawatts or Less (Continued)
8th Revision of Sheet No. 91-C, Schedule 91 Purchases from Qualifying Facilities of Five Megawatts or Less (Continued)
6th Revision of Sheet No. 91-D, Schedule 91 Purchases from Qualifying Facilities of Five Megawatts or Less (Continued)
1st Revision Sheet No. 91-G, Schedule 91 Purchases from Qualifying Facilities of Five Megawatts or Less (Continued)
5th Revision Sheet No. 91-H, Schedule 91 Purchases from Qualifying Facilities of Five Megawatts or Less (Continued)
5th Revision Sheet No. 91-I, Schedule 91 Purchases from Qualifying Facilities of Five Megawatts or Less (Continued)

These revisions include the proposed standard rates for purchases from Qualifying Facilities ("QF") of five megawatts or less and an updated schedule of PSE's Estimated Avoided Costs of Energy and Capacity.

The filing is submitted on November 1, 2024, in compliance with WAC 480-106-040(1) that a utility must file by November 1st of each year. The proposed revisions to Schedule 91 are consistent with Chapter WAC 480-106, Electric Companies—Purchases of Electricity from Qualifying Facilities, and with WAC 480-80-102, Tariff Content; as well as the exemption from WAC 480-106-040(1)(b) granted to PSE in Order 01 in Docket UE-230880¹. Specifically, these proposed changes meet the requirements outlined in WAC 480-106-030, Tariff for purchases from qualifying facilities.

Schedule of Estimated Avoided Costs per WAC 480-106-040

Consistent also with RCW 19.280.070(2), this Schedule of Estimated Avoided Costs contains an estimated capacity value for combined heat and power systems that are dispatchable by PSE.

¹ Link to PSE's 2023 Schedule 91 filing: <https://www.utc.wa.gov/casedocket/2023/230880>

The Schedule of Estimated Avoided Costs shows the levelized Avoided Costs differentiated by characteristics of qualifying facilities under the following assumptions:

1. Identification of Avoided Energy: As provided for in WAC 480-106-040(1)(a), the estimated Avoided Energy Costs on the proposed Sheet No. 91-H is based upon PSE's most current forecast of market prices for electricity as of November 1, 2024, in PSE's on-going preparation for the 2025 Integrated Resource Plan ("IRP") process, which is part of its integrated system planning. Table No. 1 of the Schedule of Estimated Avoided Costs shows these estimated Avoided Energy Costs ("Table No. 1"). The proposed Schedule of Estimated Avoided Energy Costs is consistent with the corresponding cost used in PSE's prior-year Schedule 91 filing under Docket UE-230880.
2. Identification of Avoided Capacity and associated Capacity Costs: The estimated Avoided Capacity Costs on the proposed Sheet No. 91-I (i.e., Table No. 2 of the Schedule of Estimated Avoided Costs) ("Table No. 2") is estimated based on PSE's 2023 Electric Progress Report of PSE's IRP, in which the first resource PSE would be added to the portfolio for capacity needs is a biodiesel peaker in 2025 at \$135.69/kW-year². This Avoided Capacity Cost assumption is the same as the corresponding cost used in PSE's prior-year Schedule 91 filing under Docket UE-230880. Per Order 01 of Docket UE-230880, the UTC granted PSE a five-year waiver of WAC 480-106-040(1)(b), so that PSE is allowed to use in this annual Schedule 91 filing the estimated avoided cost of capacity information from its 2023 IRP electric Plan Progress Report, which was filed with the Commission on March 31, 2023. PSE's IRP process and available results are posted for review of any interested parties at this website: <https://www.pse.com/en/IRP/>.

Standard Rates for Purchases from Qualifying Facilities of Five Megawatts or Less Per WAC 480-106-050 (4)

The current proposed Table Nos. 1 and 2 of the Schedule of Estimated Avoided Costs, are the base inputs to PSE's Schedule 91 Price Models ("Models"), attached to this filing as Model A-Standard Schedule 91 Rates for Delivery to PSE's Distribution System and Model B-Standard Schedule 91 Rates for Delivery to PSE's Transmission System. These two Models apply standard adjustments to the costs in the Schedule 91 Schedules of Estimated Avoided Costs to determine the standard rates that PSE will pay for power purchased from a small QF. It calculates the various standard fixed rates for power purchase from small QFs of baseload, solar, wind, or other PURPA resources. As shown in the Models and summarized below, these explicit standardized adjustments are included to reflect different supply characteristics and different technologies of qualifying facilities. Except the update to the Avoided Energy Costs, to reflect the most current electric price forecast per WAC 480-106-040(1)(a), the rest of the inputs and assumptions are consistent with the corresponding costs used in PSE's prior-year Schedule 91 filing.

² Link to PSE's 2023 Electric Progress Report: <https://www.pse.com/en/IRP/Past-IRPs/2023-IRP>

Inputs	Avoided Energy Cost Avoided Capacity Cost PSE Authorized Cost of Capital Deferred Transmission and Distribution (“T&D”) Cost Credit Effective Load Carrying Capacity (“ELCC”) Capacity Factor
Input: Avoided Energy Cost	Source: Pursuant to WAC 480-106-040(1)(a), the 2024-2044 Avoided Energy Costs are based on PSE’s most current forecast of market prices for the Mid-C Market forecast for PSE’s 2025 Integrated Resource Plan process. The current 20-year levelized nominal power price for the 2025 IRP process is \$48.80/MWh.
Input: Avoided Capacity Cost	Source: 2023 Electric Progress Report with assumption that the capacity resource addition is a biodiesel peaker at Avoided Capacity Costs of \$135.69/ kW per year for 2025-2045.
Input: PSE’s Authorized Cost of Capital	Source: PSE’s 2022 General Rate Case Filing (Docket Nos. UE-220066 and UG-220067). The cost of capital is before the federal income tax cost of capital of 7.16%.
Input: Deferred T&D Cost Credit (Applicable only to the PPAs that delivery to PSE’s distribution system)	Source: The Deferred T&D Cost Credit of \$80.44 per kW per year for 2025 (i.e., \$74.70/kW per year levelized 2022 dollar) is based on the T&D benefit of \$74.70/kW-year for DER batteries in PSE’s 2023 Electric Progress Report of its IRP. The \$74.70/kW-year T&D benefit is PSE’s forward-looking estimate of T&D system costs under a scenario where electrification requirements and electric vehicles drive substantial electric load growth.
Input: Effective Load Carrying Capacity	Source: 2023 Electric Progress Report. Generic resource values are used as proxy for Baseload (100%), Generic Washington Wind (13.0%), and Solar (4%).
Input: Capacity Factor	Source: 2023 Electric Progress Report using generic resource values as a proxy for Baseload (100%), Generic Washington Wind (37.0%), and Solar (25.0%).
Input: Inflation Rate	Source: Derived by PSE and assumed to be 2.5%.
Input: Line Loss Reduction	Source: Derived by PSE and posted to its Open Access Same-Time Information System under Real Power Losses. Currently assumed to be 2.7%.
Input: Contingency Reserves	Source: Based on a WECC ³ -wide contingency reserve margin. Currently assumed to be 3%.

³ WECC- Western Electricity Coordinating Council, which is the regional entity responsible for compliance monitoring and enforcement and oversees reliability planning and assessments. In addition, WECC provides an

Calculations	Avoided Energy Benefit Avoided Capacity Benefit Avoided T&D Benefit Schedule 91 Standard Fixed Rates
Avoided Energy Benefit	The Avoided Energy Benefit is based on the Avoided Energy Cost (\$/MWh), which is adjusted up to account for assumed Line Loss Reductions that would otherwise be incurred with the purchase of market energy.
Avoided Capacity Benefit	The Avoided Capacity Benefit is based on the Avoided Capacity Cost (\$/kW-year) which is adjusted for the generic resource ELCC, and then converted into \$/MWh based on the resources available hours as derived by the resources Capacity Factor (e.g., 8,760 total hours in a year * 36.7% Capacity Factor = 3,215 available hours in a year for the Wind Resource).
Avoided T&D Benefit (Applicable only to the PPAs that delivery to PSE's distribution system)	The Avoided T&D Benefit is based on an assumed Deferred T&D Cost Credit (\$/kW-year) escalated to a given year using an assumed inflation rate, which is converted into \$/MWh based on the total number of hours in a year (8,760 in a non-leap year or 8,784 in a leap year). If a project is not located on PSE's system, there is no Avoided T&D Benefit because PSE's T&D system will be used to deliver energy to load.
Schedule 91 Standard Fixed Rates	To calculate the Schedule 91 Standard Fixed Rates for a given contract length (5-years, 10-years, or 15-years) the corresponding Net Present Value ("NPV") (using PSE's approved Authorized Cost of Capital) of the Avoided Energy Benefit, Avoided Capacity Benefit and Avoided T&D Benefit are aggregated in \$/MWh, and then decremented to account for the assumed contingency reserve required. In order to smooth out the year-to-year rate variability inherent in the inputs, the NPV value is levelized over the appropriate contract length, and then the levelized rate is indexed and adjusted using the assumed inflation rate, ensuring an offered contract rate that predictably increases year-over-year at the assumed inflation rate.

To facilitate the Commission's review of the two Models, PSE added, within each model, a read-me tab that provides descriptions of the model input and a summary tab that shows the comparison of the results from the current Schedule 91 filing and the prior approved Schedule 91 filing.

The tariff sheets described herein reflect an issue date of November 1, 2024, and an effective date of January 1, 2025. Notice and posting of proposed tariff changes, as required by law and the Commission's rules and regulations, is being completed in accordance with WAC 480-100-193(1). The tariff changes proposed in the filing do not increase recurring charges nor restrict access to the optional services under Schedule 91. No notice is required under the provisions of WAC 480-100-194 or -195.

PROPOSED

Jeff Killip, Executive Director and Secretary
November 1, 2024
Advice No. 2024-44
Page 5 of 5

In addition, per WAC 480-106-030(5), PSE has been posting at its web site at <https://www.pse.com/green-options/Renewable-Energy-Programs/distributed-renewables> the information on how to obtain draft and executable contracts and the nonbinding term sheets with limited contract provisions for qualifying facilities with capacities of greater than five megawatts.

Please contact Mei Cass at Mei.Cass@pse.com for additional information about this filing. If you have any other questions, please contact me at Birud.Jhaveri@pse.com.

Sincerely,

/s/ Birud D. Jhaveri

Birud D. Jhaveri
Director, Regulatory Affairs
Puget Sound Energy
PO Box 97034, BEL10W
Bellevue, WA 98009-9734
425-462-3946
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cc: Tad O'Neill, Public Counsel
Sheree Carson, Perkins Coie

Attachments:

Electric Tariff Sheets, listed above

Model A-Standard Schedule 91 Rates for Delivery to PSE's Distribution System

Model B-Standard Schedule 91 Rates for Delivery to PSE's Transmission System

**PUGET SOUND ENERGY
 Electric Tariff G**

SCHEDULE 91

PURCHASES FROM QUALIFYING FACILITIES OF FIVE MEGAWATTS OR LESS (Continued)
 (Single Phase or Three Phase)

4. STANDARD FIXED RATES FOR PURCHASE OF NET OUTPUT FOR AGREEMENTS ENTERED ON AND AFTER JANUARY 1, 2025: (D) (N)

Net Output Fixed Rate – dollars per MWh– to be paid monthly:

A. Standard Fixed Rates for agreements with a new QF per Schedule 91 Attachment “A”:


Resource Year of Delivery	DELIVERED TO THE COMPANY'S DISTRIBUTION SYSTEM			DELIVERED TO THE COMPANY'S TRANSMISSION SYSTEM			(D)	(N)
	Base Load- RCW 80.80.040- Compliant	Wind	Solar	Base Load- RCW 80.80.040- Compliant	Wind	Solar		
2025	\$61.51	\$53.10	\$50.61	\$51.56	\$43.15	\$40.66		
2026	\$63.05	\$54.42	\$51.88	\$52.85	\$44.22	\$41.68		
2027	\$64.62	\$55.78	\$53.18	\$54.17	\$45.33	\$42.72		
2028	\$66.24	\$57.18	\$54.51	\$55.52	\$46.46	\$43.79		
2029	\$67.89	\$58.61	\$55.87	\$56.91	\$47.63	\$44.89		
2030	\$69.59	\$60.07	\$57.26	\$58.34	\$48.82	\$46.01		
2031	\$71.33	\$61.57	\$58.70	\$59.79	\$50.04	\$47.16		
2032	\$73.12	\$63.11	\$60.16	\$61.29	\$51.29	\$48.34		
2033	\$74.94	\$64.69	\$61.67	\$62.82	\$52.57	\$49.55		
2034	\$76.82	\$66.31	\$63.21	\$64.39	\$53.88	\$50.78		
2035	\$78.74	\$67.97	\$64.79	\$66.00	\$55.23	\$52.05		
2036	\$80.71	\$69.67	\$66.41	\$67.65	\$56.61	\$53.35		
2037	\$82.72	\$71.41	\$68.07	\$69.34	\$58.03	\$54.69		
2038	\$84.79	\$73.19	\$69.77	\$71.08	\$59.48	\$56.06		
2039	\$86.91	\$75.02	\$71.52	\$72.85	\$60.96	\$57.46		
2040	\$89.08	\$76.90	\$73.30	\$74.67	\$62.49	\$58.89	(D)	(N)

(Continued on Sheet No. 91-C)

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By:  Birud D. Jhaveri

Title: Director, Regulatory Affairs

**PUGET SOUND ENERGY
 Electric Tariff G**

SCHEDULE 91

PURCHASES FROM QUALIFYING FACILITIES OF FIVE MEGAWATTS OR LESS (Continued)
 (Single Phase or Three Phase)

4. STANDARD FIXED RATES FOR PURCHASE OF NET OUTPUT FOR AGREEMENTS ENTERED ON AND AFTER JANUARY 1, 2025: (Continued) (D) (N)

Net Output Fixed Rate – dollars per MWh – to be paid monthly:


B. Standard Fixed Rates for agreements with an existing QF per Schedule 91 Attachment “B”:

Resource Year of Delivery	DELIVERED TO THE COMPANY’S DISTRIBUTION SYSTEM			DELIVERED TO THE COMPANY’S TRANSMISSION SYSTEM			(D)	(N)
	Base Load- RCW 80.80.040- Compliant	Wind	Solar	Base Load- RCW 80.80.040- Compliant	Wind	Solar		
2025	\$61.62	\$52.80	\$50.19	\$51.68	\$42.86	\$40.26		
2026	\$63.16	\$54.12	\$51.45	\$52.97	\$43.93	\$41.26		
2027	\$64.74	\$55.47	\$52.74	\$54.30	\$45.03	\$42.30		
2028	\$66.36	\$56.86	\$54.05	\$55.66	\$46.16	\$43.35		
2029	\$68.02	\$58.28	\$55.40	\$57.05	\$47.31	\$44.44		
2030	\$69.72	\$59.73	\$56.79	\$58.47	\$48.49	\$45.55		
2031	\$71.46	\$61.23	\$58.21	\$59.94	\$49.71	\$46.69		
2032	\$73.25	\$62.76	\$59.67	\$61.43	\$50.95	\$47.85		
2033	\$75.08	\$64.33	\$61.16	\$62.97	\$52.22	\$49.05		
2034	\$76.95	\$65.94	\$62.69	\$64.54	\$53.53	\$50.28		
2035	\$78.88	\$67.58	\$64.25	\$66.16	\$54.87	\$51.53	(D)	(N)

(Continued on Sheet No. 91-D)

Issued: November 1, 2024
Advice No.: 2024-44

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**PUGET SOUND ENERGY
 Electric Tariff G**

**SCHEDULE 91
 PURCHASES FROM QUALIFYING FACILITIES OF FIVE MEGAWATTS OR LESS (Continued)
 (Single Phase or Three Phase)**

4. STANDARD FIXED RATES FOR PURCHASE OF NET OUTPUT FOR AGREEMENTS ENTERED ON AND AFTER JANUARY 1, 2025: (Continued) (D) (N)

Net Output Fixed Rate – dollars per MWh – to be paid monthly:

C. Standard Fixed Rates for Base Load- NON-RCW 80.80.040-Compliant resource agreements with a QF per Schedule 91 Attachment “C”:

	DELIVERED TO THE COMPANY'S DISTRIBUTION SYSTEM	DELIVERED TO THE COMPANY'S TRANSMISSION SYSTEM
Resource Year of Delivery	Base Load-NON-RCW 80.80.040-Compliant	Base Load-NON-RCW 80.80.040-Compliant
2025	\$63.80	\$53.82
2026	\$65.39	\$55.17
2027	\$67.03	\$56.55
2028	\$68.70	\$57.96
2029	\$70.42	\$59.41
2030	\$72.18	\$60.90

D. Standard Fixed Rates consistent with avoided costs currently in effect for agreements with a QF for purchases of Net Output delivered to the Company distribution system at the time of delivery are as follow:

a. Standard Fixed Rates for purchase of both Energy and Capacity for the current time of delivery (year 2025):

- i. Baseload RCW 80.80.040-Compliant: \$63.58/MWh
- ii. Wind Resource: \$53.53/MWh
- iii. Solar Resource: \$50.57/MWh
- iv. Baseload Non-RCW 80.80.040-Compliant: \$63.58/MWh

b. Standard Fixed Rates for purchase of Energy only for the current time of delivery (year 2025):

- i. Baseload RCW 80.80.040-Compliant: \$48.09/MWh
- ii. Wind Resource: \$48.09/MWh
- iii. Solar Resource: \$48.09/MWh
- iv. Baseload Non-RCW 80.80.040-Compliant: \$48.09/MWh

(Continued on Sheet No. 91-E)

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Advice No.: 2024-44

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PUGET SOUND ENERGY
Electric Tariff G

SCHEDULE 91

PURCHASES FROM QUALIFYING FACILITIES OF FIVE MEGAWATTS OR LESS (Continued)
(Single Phase or Three Phase)

6. **TERMS AND CONDITIONS:** (Continued)


- J. In the event that the Customer-Generator’s QF does not provide for separate metering of deliveries to the Company, the Customer-Generator’s QF will not be compensated for unmetered incidental flows to the Company. The service meter in this instance shall be ratcheted to prevent reverse registration, and no additional monthly basic charge will be applied.
- K. For Customer-Generator’s QF, individual generator units larger than 7.5 KW shall be three phase unless otherwise agreed to by the Company.
- L. The QF shall provide the Company with verification that QF’s facility has secured Qualifying Facility status from the Federal Energy Regulatory Commission.
- M. Pursuant to the Power Purchase Agreement, the QF may offer the Company the right to purchase of the Renewable Energy Credits (as defined in Schedule 135 of this tariff) associated with the energy produced by the QF.
- N. When the fixed rates are based on the avoided capacity costs of an eligible renewable resource as defined in RCW 19.285.030, the Company shall receive all the renewable energy certificates produced by the QF at no additional cost to the Company. (T)

(Continued on Sheet No. 91-H)

Issued: November 1, 2024
Advice No.: 2024-44

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**PUGET SOUND ENERGY
 Electric Tariff G**

SCHEDULE 91

PURCHASES FROM QUALIFYING FACILITIES OF FIVE MEGAWATTS OR LESS (Continued)
 (Single Phase or Three Phase)

7. **SCHEDULE OF ESTIMATED AVOIDED COST:** This Schedule of Estimated Avoided Cost, as (N)
 prescribed in WAC 480-106-040, identifies the estimated avoided cost and does not provide a |
 guaranteed contract price for electricity. The standard Fixed Rates for purchases from qualifying facilities |
 under this schedule are in section 4. The Schedule only identifies general information to potential |
 bidders about the avoided costs. The Schedule of Estimated Avoided includes the following two tables: |
 A. Table No. 1: 2024-2043 Avoided Energy Costs: As provided for in WAC 480-106-040(1)(a), the |
 estimated Avoided Energy Costs are based upon the Company's most current forecast of market |
 prices for electricity in its on-going integrated system planning as of November 1, 2024. |


2025-2044 Avoided Energy Costs based on the Company's forecast of market prices for the Mid-C Market in accordance with WAC 480-106-040(a) (Nominal \$/MWh)													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg. Annual
2025	58.03	54.24	32.96	30.43	28.47	30.17	52.22	56.22	54.83	54.36	59.82	65.35	48.09
2026	54.60	51.57	29.36	27.45	27.02	27.13	50.59	54.71	52.05	50.34	56.70	61.67	45.26
2027	49.59	45.97	26.20	24.80	23.90	24.21	46.24	50.55	46.55	45.51	52.69	55.69	40.99
2028	45.28	44.15	23.06	22.07	21.17	23.32	44.80	48.04	44.93	45.59	51.83	55.64	39.17
2029	41.38	40.56	22.15	21.21	19.26	21.41	45.21	49.15	46.57	43.57	49.78	53.93	37.86
2030	46.12	46.53	22.40	23.34	21.13	23.87	56.08	60.73	59.64	50.54	57.56	63.14	44.27
2031	43.99	43.01	20.96	22.61	20.40	22.50	57.28	62.61	61.33	51.44	58.47	65.33	44.20
2032	41.71	40.63	19.81	20.65	21.03	21.15	56.01	61.38	57.64	50.43	56.34	62.01	42.45
2033	43.95	41.21	21.06	22.40	22.04	22.85	60.62	64.74	61.00	54.49	60.08	67.83	45.26
2034	44.02	42.89	21.11	22.24	21.87	23.11	62.23	65.52	63.02	56.27	62.51	68.13	46.14
2035	45.91	47.75	23.47	25.79	22.86	23.82	66.25	72.24	71.17	60.23	63.76	74.03	49.83
2036	54.31	52.50	24.45	27.03	24.28	26.30	70.97	79.36	76.33	63.76	72.87	77.98	54.23
2037	54.57	54.57	25.26	27.97	26.22	25.63	72.52	81.08	77.92	65.76	73.66	80.25	55.50
2038	58.02	56.68	24.62	27.75	26.61	25.62	75.98	82.54	78.47	69.88	76.39	84.08	57.28
2039	58.78	58.06	27.66	31.84	29.24	29.83	81.68	87.19	82.98	76.51	81.51	92.82	61.59
2040	57.75	57.46	26.15	30.83	27.19	32.09	85.56	85.33	85.53	79.04	82.62	94.77	62.10
2041	60.30	62.07	29.99	33.45	27.13	29.18	85.97	95.01	95.33	84.63	84.41	99.75	65.69
2042	61.13	65.19	30.92	34.27	28.67	31.29	91.66	101.2	95.12	85.69	87.20	105.8	68.28
2043	60.23	60.56	31.16	31.76	29.49	29.68	91.10	101.0	92.39	83.65	83.48	104.2	66.70
2044	60.78	59.46	30.10	30.27	30.11	31.27	96.56	95.67	89.14	81.94	82.17	109.9	66.58

(Continued on Sheet No. 91-I)

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