



Puget Sound Energy  
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PSE.com

***Filed via Web Portal***

June 1, 2020

Mr. Mark L. Johnson, Executive Director and Secretary  
Washington Utilities and Transportation Commission  
621 Woodland Square Loop SE  
Lacey, Washington 98503

**Re: Annual Renewable Portfolio Standard Report - 2020  
RCW-Required Report, RCW 19.285.070 and  
WAC-Required Report, WAC 480-109-210**

Dear Mr. Johnson:

Attached for filing, please find Puget Sound Energy’s (“PSE’s”) report detailing the annual reporting requirements for the Renewable Portfolio Standard Report (the “Report”) in RCW 19.285.070 and WAC 480-109-210. PSE is asking the Commission to approve its 2020 Renewable Energy Target of 3,114,782 MWh.

PSE requests confidential treatment for Attachments 4 and 5 to the Report under RCW 80.04.095 and in accordance with WAC 480-07-160. The information labeled as confidential includes commercially sensitive data and confidential information related to renewable energy credit (“REC”) sales revenues, which could expose PSE to competitive injury if disclosure is unrestricted. Therefore, PSE requests confidential treatment on the basis that the information labeled “Shaded Information is Designated as Confidential per WAC 480-07-160” contains “valuable commercial information, including trade secrets or confidential marketing, cost, or financial information, or customer-specific usage and network configuration and design information,” as provided in in RCW 80.04.095 in accordance with WAC 480-07-160(2)(c).

This Confidential information is redacted as follows:

Location	Type of Information	Explanation
Attachment 4 First tab: Summary Table	REC revenues	This tab contains REC revenue information from which REC prices could be derived using the quantity information in the Revenue Detail tab.

Mr. Mark L. Johnson

June 1, 2020

Page 2

<b>Location</b>	<b>Type of Information</b>	<b>Explanation</b>
Attachment 4 Second tab: Revenue Detail	REC revenues	This tab contains REC price detail by transaction and by resource or agreement.
Attachment 5 Tab (2)(a)(ii)Annual-2019, estimate, Column G	REC revenues	This column contains REC revenue information from which REC prices could be derived using the REC quantity information in Attachments 3 or 4.
Attachment 5 REC Purchases tab	REC prices	This tab contains REC price information.

A copy of this report will also be submitted to the Department of Commerce.

If you have any questions about the information contained in this filing, please contact Chris Schaefer at 425-456-2932 or [chris.schaefer@pse.com](mailto:chris.schaefer@pse.com). If you have any other questions please contact me at (425) 456-2142.

Sincerely,

*/s/ Jon Piliaris*

Jon Piliaris, Director Regulatory Affairs  
Puget Sound Energy  
PO Box 97034, EST-07W  
Bellevue, WA 98009-9734  
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[Jon.Piliaris@pse.com](mailto:Jon.Piliaris@pse.com)

cc: Department of Commerce

Attachments:

PSE 2020 RPS Report

Attachment 1: Memo

Attachment 2: IRP Appendix N

Attachment 3: Reporting Tool

Attachment 4: REC Sales (Redacted Version)

REC Sales (Confidential Version)

Attachment 5: Incremental Cost Template (Redacted Version)

Incremental Cost Template (Confidential Version)

Attachment 6: Department of Commerce EIA Workbook

Attachment 7: Apprenticeship Credit Approval Letters

**Puget Sound Energy**  
**2020 Annual Renewable Portfolio Standard Report**  
**pursuant to RCW 19.285.070 and WAC 480-109-210**

June 1, 2020

## Required Contents: Checklist and Table of Contents

RCW 19.285.070	WAC 480-109-210(2)	Section/Page
The utility's annual load for the prior two years	The utility's annual load for the prior two years	<b>Section 1 Annual Load For Previous Two Years</b> Page 1
The amount of megawatt-hours needed to meet the annual renewable energy target	The total number of megawatt-hours from eligible renewable resources and/or renewable resource credits the utility needed to meet its annual renewable energy target by January 1 of the target year	<b>Section 2 Renewable Energy Target</b> Page 1
The amount of megawatt-hours of each type of eligible renewable resource acquired, the type and amount of renewable energy credits acquired	The amount (in megawatt-hours) of each type of eligible renewable resource used and the amount of renewable energy credits acquired	<b>Section 3 Renewable Energy Acquired To Have Met Renewable Energy Target</b> Page 1
The percent of its total annual retail revenue requirement invested in the incremental cost of eligible renewable resources and the cost of renewable energy credits	Total incremental cost as a dollar amount and in dollars per megawatt-hour of renewable energy generated by all eligible renewable resources and multiply the dollars per megawatt-hour cost by the number of megawatt-hours needed for target year compliance.	<b>Section 4 Incremental Cost Calculation and Revenue Requirement Ratio</b> Page 2
	State whether the utility is relying upon one of the alternative compliance mechanisms provided in WAC <a href="#">480-109-220</a> instead of fully meeting its renewable resource target.	<b>Section 5 Alternative Compliance</b> Page 3

<b>RCW 19.285.070</b>	<b>WAC 480-109-210(2)</b>	<b>Section/Page</b>
	Describe the resources that the utility intends to use to meet the renewable resource requirements for the target year.	<b>Section 6 2019 Compliance Plan Page 3</b>
	A list of each eligible renewable resource that serves Washington customers, for which a utility owns the certificates, with an installed capacity greater than twenty-five kilowatts.	<b>Section 7 Eligible Resources Page 4</b>
	The number of certificates sold, their WREGIS certificate numbers, their source, and the revenues obtained from the sales.	<b>Section 8 Sales Page 5</b>

- Attachment 1: Memo dated December 24, 2019 Regarding Eligible Renewable Resources**
- Attachment 2: Appendix N from PSE’s Integrated Resource Plan filed with the Commission on November 14, 2017**
- Attachment 3: Reporting Tool**
- Attachment 4: REC Sales, Confidential Version  
REC Sales, Redacted Version**
- Attachment 5: Incremental Cost Template, Confidential Version  
Incremental Cost Template, Redacted Version**
- Attachment 6: Department of Commerce EIA Workbook**
- Attachment 7: Apprenticeship Credit Approval Letters**

## Section 1. Annual Load for the Prior Two Years

	<u>2018</u>	<u>2019</u>
Delivered Load to Retail Customers (MWh)	20,697,195	20,833,230

The source of this data is the Puget Sound Energy (“PSE”) 2019 FERC Form 1, p. 301, line 10, columns d and e.

## Section 2. 2020 Renewable Energy Target

*This section provides the number of megawatt-hours from eligible renewable resources and/or renewable resource credits the utility needed to meet its annual renewable energy target by January 1st of the target year.*

After Commission approval, PSE’s Renewable Energy Target for 2020 will be 3,114,782 MWh.

Calculation:

	<u>2018</u>	<u>2019</u>
Delivered Load to Retail Customers (MWh)	20,697,195	20,833,230
Average Load	20,765,213	
15 Percent of Average Load	3,114,782	

## Section 3. Renewable Energy Acquired To Meet 2020 Renewable Energy Target

*This section provides the amount (in megawatt-hours) of each type of eligible renewable resource used, and the amount of renewable energy credits acquired to meet the 2020 target.*

As demonstrated in Attachment 1, PSE has sufficient eligible renewable resources to meet its 2020 target. PSE plans to meet its 2020 target with a combination of incremental hydro along with other renewable energy certificates from qualifying resources. The following table shows all of PSE’s eligible resources for 2020, of which a subset will be used for compliance purposes:

Incremental Hydro Resources	88,091
Eligible Wind Resources	3,992,072
Landfill Gas	2,361

## Section 4. Incremental Cost Calculation and Revenue Requirement Ratio

*This section calculates the total incremental cost as a dollar amount and in dollars per megawatt-hour of renewable energy generated by all eligible renewable resources and multiplies the dollars per megawatt-hour cost by the number of megawatt-hours needed for target year compliance and provides the annual revenue requirement ratio.*

*The following is a summary of PSE's incremental cost calculation as developed in Staff's template, attached as Attachment 5.*

Incremental Cost	\$27.8M
Revenue Requirement	\$1,996M
Percentage	1.459%
Source of Information	Please see table below.

PSE's incremental cost is based on the average cost of eligible renewable resources. Consistent with the requirements outlined in WAC 480-109-210 (2)(a)(i) (A) through (G), the calculation of incremental costs for each eligible resource is performed at the time of acquisition. PSE has not acquired any new resources since 2013 and therefore continues to utilize incremental cost calculations as documented in Attachment 2. The incremental costs (in millions of dollars) along with the annual megawatt hour (MWh) as sourced from PSE's 2017 IRP, for each eligible resource are as follows:

Resource	Renewable Resource	Equivalent Non-Renewable			One Year Incremental Cost	Annual MWh	Market Price/Peaker Assumptions*
		Peaker	Market	Total			
Hopkins Ridge	\$18.77	\$1.71	\$19.26	\$20.97	(\$2.20)	466,908	2004 RFP
Wild Horse	\$34.94	\$3.21	\$26.53	\$29.74	\$5.20	642,984	2006 RFP
Klondike III	\$10.27	\$0.93	\$8.98	\$9.91	\$0.36	157,680	2006 RFP
Hopkins Infill	\$1.28	\$0.17	\$1.19	\$1.36	(\$0.08)	21,024	2007 IRP
Wild Horse Expansion	\$10.03	\$0.81	\$5.09	\$5.90	\$4.14	91,980	2007 IRP
Lower Snake River I	\$70.61	\$1.69	\$48.51	\$50.20	\$20.42	897,900	2010 Trends
Snoqualmie Falls Upgrade	\$3.85	\$0.74	\$2.44	\$3.18	\$0.67	34,164	2009 Trends
Lower Baker 4	\$8.60	\$1.37	\$7.92	\$9.29	(\$0.69)	109,500	2011 IRP Base
<b>Total</b>					<b>\$27.81</b>	<b>2,422,140</b>	

(\$ Millions/Year)

This information appears in PSE's 2017 IRP, Appendix N, Page N-177, Figure N-145, and is provided in Attachment 2. Due to the implementation of the Clean Energy Transformation Act, PSE's next IRP will be filed April 1, 2021.

As reflected in the above table, the incremental cost of the eligible renewable resources portfolio is \$27.81 million resulting in an average cost/MWh of \$11.48. The incremental cost for the 2020 target year, based on the average cost for the portfolio of resources is \$35.8 million (\$11.48/MWh \* 3,114,782 MWh).

The resulting ratio of the portfolio's annualized cost of investment relative to the utility's total annual retail revenue requirement is 1.459%.

Utilizing Staff's template, attached as Attachment 5, that calculates the incremental cost for the target based on the actual planned resources, the incremental cost for 2020 target year compliance is \$42.6 million.

The total annual retail revenue requirement for 2020 is \$1,996.287 million.<sup>1</sup> The 2020 revenue requirement is based on the revenue requirement determined in PSE's last general rate case (UE-170033) after adjusting for Tax Cuts and Jobs Act ("Tax Reform") (Docket UE-180282), Expedited Rate Filing ("ERF") (Docket UE-180899 and UG-180900) and Protected-Plus Excess Deferred Income Tax Reversal ("EDIT ARAM") (Docket UE-180899).

## **Section 5. Alternative Compliance**

*This section states whether the utility is relying upon one of the alternative compliance mechanisms provided in WAC 480-109-220 instead of fully meeting its renewable resource target. A utility using an alternative compliance mechanism must use the incremental cost methodology described in this section and include sufficient data, documentation and other information in its report to demonstrate that it qualifies to use that alternative mechanism.*

PSE is not utilizing an alternative compliance mechanism provided for in RCW 19.285.040(2)(d) or RCW 19.285.050(1) and WAC 480.109.220 instead of meeting its 2020 Renewable Energy Target.

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<sup>1</sup> Figure reflects Revenue Requirement from PSE's 2017 General Rate Case, after adjusting for Tax Reform updates approved by the Commission in Docket UE-180282. Electric Revenue Requirement as originally approved in UE-170033 was \$2,069,159,344. Utilizing the pre-tax reform, revenue requirement results in a 1.408% revenue requirement ratio.



## Section 6. 2020 Compliance Plan

*This section describes the resources that PSE intends to use to meet the renewable resource requirements for the target year.*

PSE is positioned to meet its 2020 Renewable Energy Target with a combination of qualified hydroelectric upgrades and other renewable energy certificates from qualifying resources. The following table provides a summary of PSE's expected 2020 compliance. Further details about this information can be found in Attachment 3.

2020 Compliance Plan	
	MWh or Equiv
Lower Baker Project Incremental Hydro	70,693
Snoqualmie Falls Project Incremental Hydro	17,398
Lower Snake River - Phalen Gulch (Vintage 2019)	298,679
Extra Apprenticeship Credits	59,736
Wild Horse Phase II (Vintage 2019)	99,359
Extra Apprenticeship Credits	19,872
Lower Snake River-Dodge Junction (Vintage 2019)	412,098
Extra Apprenticeship Credits	82,420
Hopkins Ridge (Vintage 2019)	324,844
Hopkins Ridge Phase II (Vintage 2019)	15,655
Wild Horse (Vintage 2019)	343,366
Klondike III (Vintage 2019)	93,031
Camp Reed Wind Park -- REC only (Vintage 2019)	18,037
Golden Valley Wind Park -- REC only (Vintage 2019)	8,707
Klondike III -- REC only (Vintage 2019)	15,341
Meadow Creek Wind Farm - Five Pine Project -- REC only (Vintage 2019)	25,276
Meadow Creek Wind Farm - North Point Wind Farm -- REC only (Vintage 2019)	49,724
Nine Canyon Wind Project - Nine Canyon Phase 3 -- REC Only (Vintage 2019)	3,486
Oregon Trail Wind Park, LLC - Oregon Trail Wind Park -- REC Only (Vintage 2019)	9,879
PaTu Wind Farm - PaTu Wind -- REC Only (Vintage 2019)	12,375
Roseburg LFG - Roseburg LFG Energy -- REC Only (Vintage 2019)	2,361
Salmon Falls Wind Park, LLC - Salmon Falls Wind Park -- REC Only (Vintage 2019)	17,090
Sawtooth Wind Project - Sawtooth Wind Project -- REC Only (Vintage 2019)	30,077
Thousand Springs Wind Park, LLC - Thousand Springs Wind Park -- REC Only (Vintage 2019)	8,681
Tuana Gulch Wind Park, LLC - Tuana Gulch Wind Park -- REC Only (Vintage 2019)	7,912
Tuana Springs Energy, LLC - Tuana Springs -- REC Only (Vintage 2019)	17,961
White Creek Wind 1 - White Creek -- REC Only (Vintage 2019)	2,797
Lower Snake River - Phalen Gulch (Vintage 2020)	310,207
Extra Apprenticeship Credits	62,041
Wild Horse Phase II (Vintage 2020)	90,930
Extra Apprenticeship Credits	18,186
Lower Snake River-Dodge Junction (Vintage 2020)	423,793
Extra Apprenticeship Credits	84,759
Klondike III (Vintage 2020)	40,467
Hopkins Ridge Phase II (Vintage 2020)	17,545
Available to Meet Target	3,114,783

Data for 2020 provided above is an estimate and is subject to change.

## **Section 7. Eligible Resources**

*This section provides a list of each eligible renewable resource that serves Washington customers, for which PSE owns the certificates, with an installed capacity greater than twenty-five kilowatts and each resource's WREGIS registration status and use of certificates, whether it be for annual target compliance, a voluntary renewable energy program as provided for in RCW 19.29A.090, or owned by the customer; and eligible resources being included in the report for the first time and documentation of their eligibility.*

PSE has acquired sufficient eligible renewable resources in its portfolio to supply at least fifteen percent of its estimated load for the year 2020, in advance of January 1, 2020. Eligible renewable resources that PSE may elect to use in whole or in part to meet its 2020 target include (but are not limited to):

- Hopkins Ridge Wind Project;
- Wild Horse Wind Project;
- Wild Horse Expansion Wind Project (including extra apprenticeship credits);
- Lower Snake River Wind Project (including extra apprenticeship credits);
- Klondike III Wind Project (e.g. the output PSE purchases from Iberdrola);
- Snoqualmie Falls Hydroelectric Efficiency Upgrades;
- Lower Baker River Hydroelectric Efficiency Upgrades;
- Allocation of Hydroelectric Efficiency Upgrades that may be (now or in the future) a part of PSE's Mid-C Contracts;
- Customer-Generator owned facilities taking service from PSE under PSE electric rate Schedule 91; and
- Any other eligible renewable resources that may become available in 2020 or 2021.

Please also see Attachment 1.

## **Section 8. Sales**

*This section reports on the number of certificates sold, their WREGIS certificate numbers, their source, and the revenues obtained from the sales.*

The following table summarizes PSE's REC sales by source and vintage year for 2014 through 2019 vintages. Through March 31, 2020, the Company has not transferred title to any Vintage 2020 RECs.

**REC Sold by Year by Resource**

Source	WREGIS No.	Vintage					2019	Total REC Sold
		2014	2015	2016	2017	2018		
Wild Horse	W183	541,930	43,254	138,677	44,385	203,209	172,850	1,628,640
Wild Horse Phase II	W1364	98,496	10,000	-	-	-	-	210,088
Hopkins Ridge	W184	423,662	109,781	190,560	74,400	176,270	-	1,312,149
Hopkins Ridge Phase II	W1382	18,641	1,735	9,184	-	10,171	-	47,040
Klondike III	W237	133,571	60,697	62,849	57,197	57,609	24,620	523,272
Lower Snake River-Dodge Junction	W2669	230,247	-	-	-	-	-	431,998
Lower Snake River-Phalen Gulch	W2670	169,808	12,732	-	-	-	-	324,750
		<b>1,616,355</b>	<b>238,199</b>	<b>401,270</b>	<b>175,982</b>	<b>447,259</b>	<b>197,470</b>	<b>4,477,937</b>

Reflects REC transfers through 3/31/2020.

Confidential Attachment 4 provides transaction details including the revenue proceeds associated with those sales.



# MEMORANDUM

TO: Jon Piliaris, Paul Wetherbee and Chris Smith

FROM: Tricia Fischer and Chris Schaefer

DATE: December 24, 2019

SUBJECT: Renewable portfolio standard

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## Background

Chapter 480-109 of Washington Administrative Code (WAC) establishes rules that electric utilities must follow to comply with the requirements of the Energy Independence Act (Chapter 19.285 RCW). Specifically, WAC 480-109-200 Renewable portfolio standard states:

(1) **Renewable resource target.** Each utility must meet the following annual targets.

...

(c) By January 1st of each year beginning in 2020 and continuing each year thereafter, each utility must use sufficient eligible renewable resources, acquire equivalent renewable energy credits, or a combination of both, to supply at least fifteen percent of its two-year average load for the remainder of each target year.

...

(2) **Credit eligibility.** Renewable energy credits produced during the target year, the preceding year or the subsequent year may be used to comply with this annual renewable resource requirement provided that they were acquired by January 1st of the target year.

(3) **WREGIS registration.** All eligible hydropower generation and all renewable energy credits used for utility compliance with the renewable resource target must be registered in WREGIS, regardless of facility ownership. Any megawatt-hour of eligible hydropower or renewable energy credit that a utility uses for compliance must have a corresponding certificate retired in the utility's WREGIS account.

...

(5) **Target calculation.** In meeting the annual targets of this section, a utility must calculate its annual target based on the average of the utility's load for the previous two years.

(6) **Integration services.** A renewable resource within the Pacific Northwest may receive integration, shaping, storage or other services from sources outside of the Pacific Northwest and remain eligible to count towards a utility's renewable resource target.

## **Summary**

Pursuant to the requirements of WAC 480-109-200 Renewable portfolio standard, we have prepared this Memorandum to document that Puget Sound Energy (“PSE”) has acquired sufficient eligible renewable resources in its portfolio, by January 1, 2020, to supply at least fifteen percent of its 2018-2019 average load for the 2020 target year. This is consistent with the information provided to the WUTC on November 15, 2019 in PSE’s Integrated Resource Plan Progress Report in Dockets UE-180607 and UG-180608. The section titled Renewable Energy Need (page 15) states that, “... PSE has sufficient qualifying renewable resources to meet the RPS requirements until 2023, including the ability to bank RECs.”

The following provides detail of PSE’s eligible renewable resources, load and renewable energy target.

## **Eligible Renewable Resources**

Eligible renewable resources that PSE may elect to use in whole or in part to meet its 2020 target include (but are not limited to):

- Hopkins Ridge Wind Project;
- Wild Horse Wind Project;
- Wild Horse Expansion Wind Project (including extra apprenticeship credits);
- Lower Snake River Wind Project (including extra apprenticeship credits);
- Klondike III Wind Project (e.g. the output PSE purchases from Iberdrola);
- Snoqualmie Falls Hydroelectric Efficiency Upgrades;
- Lower Baker River Hydroelectric Efficiency Upgrades;
- Allocation of Hydroelectric Efficiency Upgrades that may be (now or in the future) a part of PSE’s Mid-C Contracts;
- Customer-Generator owned facilities taking service from PSE under PSE electric rate Schedule 91;
- WA RPS compliant RECs purchases; and
- Any other eligible renewable resources that may become available.

Total 2018 generation from Hopkins Ridge, Wild Horse, Wild Horse Expansion, Lower Snake River and Klondike III Wind Projects was approximately 2,050,408 megawatt-hours (not inclusive of the extra apprenticeship credits); similar generation may be achieved for 2019 and 2020.

These eligible renewable resources may be impacted by events beyond PSE’s reasonable control, which could not be reasonably anticipated, that could prevent PSE from meeting the renewable energy target. Such events may include weather-related damage, mechanical failure, strikes, lockouts, or actions of a governmental authority that adversely affect the generation, transmission, or distribution of an eligible renewable resource owned by or under contract to PSE.

PSE does not currently intend to utilize one of the alternative compliance mechanisms provided for in RCW 19.285.040(2)(d) or RCW 19.285.050(1) and WAC 480-109-220 for meeting its 2020

renewable resource target. However, there may be events beyond PSE's control during calendar year 2020 which could prompt PSE to utilize one of the above mentioned alternative compliance mechanisms. Such determination will be made when PSE reports on its final 2020 compliance in the 2021 or 2022 report.

PSE may choose to purchase eligible RECs to meet annual compliance targets and use PSE-owned resources for other purposes.

### **Load**

As defined in the rule, "'Load' means the amount of kilowatt-hours of electricity delivered in the most recently completed year by a qualifying utility to its Washington retail customers. Load does not include off-system sales or electricity delivered to transmission-only customers." PSE's actual 2018 delivered load was 20,697,195,000 kilowatt-hours (20,697,195 megawatt-hours) and the 2019 forecast load is 20,852,369,000 kilowatt-hours (20,852,369 megawatt-hours). This forecast does not include Microsoft load served under the Special Contract in Docket UE-161123.

Consistent with WAC 480-109-210(2), based on the average of PSE's load in 2018 and 2019 and as reflected above, PSE's estimated load for purposes of meeting its 2020 target is 20,774,782 megawatt-hours.

### **2020 Renewable Resource Target**

Pursuant to Chapter 480-109-200(1)(b) WAC, PSE's renewable resource target shall be fifteen percent of its 2018-2019 average load. Therefore, PSE's estimated renewable energy target for 2020 is approximately 3,116,217 megawatt-hours (fifteen percent of 20,774,782 megawatt-hours.) PSE expects that eligible renewable energy generation in 2020 combined with RECs generated in 2019 will be in excess of its 2020 requirement.

PSE will report on the specific renewable energy credits produced and to be retired for final compliance with the 2020 target in either its 2021 or 2022 annual report, and reserves the right to submit renewable energy credits from the resources reported here or to substitute with renewable energy credits produced from 2019 to 2021 by other eligible renewable resources or with 2020 generation from eligible renewable resources that have not been converted to renewable energy credits.

### **Conclusion**

PSE has acquired sufficient eligible renewable resources or renewable energy credits to meet the estimated renewable energy target for 2020.

PSE's expected 2020 eligible renewable resource generation of 1,978,169 megawatt-hours, not including extra apprenticeship credits, plus 2019 eligible renewable resource generation banked forward, exceeds its 2020 renewable resource target of 3,116,217 megawatt-hours.



## 9. INCREMENTAL COST OF RENEWABLE RESOURCES

According to RCW 19.285, certain electric utilities in Washington must meet 15 percent of their retail electric load with eligible renewable resources by the calendar year 2020. The annual target for the calendar year 2012 was 3 percent of retail electric load, and for 2016, it was 9 percent. However, if the incremental cost of those renewable resources compared to an equivalent non-renewable is greater than 4 percent of its revenue requirement, then a utility will be considered in compliance with the annual renewable energy target in RCW 19.285. The law states it this way: “The incremental cost of an eligible renewable resource is calculated as the difference between the levelized delivered cost of the eligible renewable resource, regardless of ownership, compared to the levelized delivered cost of an equivalent amount of reasonably available substitute resources that do not qualify as eligible renewable resources.”

### Analytic Framework

This analysis compares the revenue requirement cost of each renewable resource with the projected market value and capacity value at the time of the renewable acquisition. There may be other approaches to calculating these costs – such as using variable costs from different kinds of thermal plants instead of market. However, PSE’s approach is most reasonable because it most closely reflects how customers will experience costs; i.e., PSE would not dispatch a peaker or CCCT with the ramping up and down of a wind farm without regard to whether the unit is being economically dispatched. For example, a peaker will not be economically dispatched often at all, so capacity from the thermal plant and energy from market is the closest match to actual incremental costs – and that is the point of this provision in the law – a to ensure customers don’t pay too much. This, “contemporaneous” with the decision-making aspect of PSE’s approach, is important. Utilities should be able to assess whether they will exceed the cost cap before an acquisition, without having to worry about ex-post adjustments that could change compliance status. The analytical framework here reflects a close approximation of the portfolio analysis used by PSE in resource planning, as well as in the evaluation of bids received in response to the company’s request for proposals (RFP).



## “Eligible Renewable Resources”

Figure N-145: Resources that Meet RCW 19.285 Definition of Eligible Renewable Resources

	Nameplate (MW)	Annual Energy (aMW)	Commercial Online Date	Market Price/Peaker Assumptions	Capacity Credit Assumption
Hopkins Ridge	149.4	53.3	Dec-05	2004 RFP	20%
Wild Horse	228.6	73.4	Dec-06	2006 RFP	17.20%
Klondike III	50	18	Dec-07	2006 RFP	15.60%
Hopkins Infill	7.2	2.4	Dec-07	2007 IRP	20%
Wild Horse Expansion	44	10.5	Dec-09	2007 IRP	15%
Lower Snake River I	342.7	102.5	Apr-12	2010 Trends	5%
Snoqualmie Upgrades	6.1	3.9	Mar-13	2009 Trends	95%
Lower Baker Upgrades	30	12.5	May-13	2011 IRP Base	95%
Generic Solar 2022	266	70.8	Jan-22	2017 IRP Base	0%
Generic Solar 2024	112	29.8	Jan-24	2017 IRP Base	0%
Generic Solar 2032	25	6.7	Jan-32	2017 IRP Base	0%
Generic Solar 2033	59	15.7	Jan-33	2017 IRP Base	0%
Generic Solar 2037	25	6.6	Jan-37	2017 IRP Base	0%

## Equivalent Non-renewable

The incremental cost of a renewable resource is defined as the difference between the levelized cost of the renewable resource compared to an equivalent non-renewable resource. An equivalent non-renewable is an energy resource that does not meet the definition of a renewable resource in RCW 19.285, but is equal to a renewable resource on an energy and capacity basis. For the purpose of this analysis, the cost of an equivalent non-renewable resource has three components:

1. **Capacity Cost:** There are two parts of capacity cost. First is the capacity in MW. This would be the nameplate for a firm resource like biomass, or the assumed capacity of a wind plant. Second is the \$/kW cost, which we assumed to be equal to the cost of a peaker.





2. **Energy Cost:** This was calculated by taking the hourly generation shape of the resource, multiplied by the market price in each hour. This is the equivalent cost of purchasing the equivalent energy on the market.
3. **Imputed Debt:** The law states the non-renewable must be an “equivalent amount,” which includes a time dimension. If PSE entered into a long-term contract for energy, there would be an element of imputed debt. Therefore, it is included in this analysis as a cost for the non-renewable equivalent.

For example, Hopkins Ridge produces 466,900 MWh annually. The equivalent non renewable is to purchase 466,900 MWh from the Mid-C market and then build a 30 MW (149.4\*20 percent = 30) peaker plant for capacity only. With the example, the cost comparison includes the hourly Mid-C price plus the cost of building a peaker, plus the cost of the imputed debt. The total revenue requirement (fixed and variable costs) of the non-renewable is the cost stream – including end effects – discounted back to the first year. That net present value is then levelized over the life of the comparison renewable resource.

### Cost of Renewable Resource

Levelized cost of the renewable resource is more direct. It is based on the proforma financial analysis performed at the time of the acquisition. The stream of revenue requirement (all fixed and variable costs, including integration costs) are discounted back to the first year – again, including end effects. That net present value is then levelized out over the life of the resource/contract. The levelized cost of the renewable resource is then compared with the levelized cost of the equivalent non-renewable resource to calculate the incremental cost.

The following is a detailed example of how PSE calculated the incremental cost of Wild Horse. It is important to note that PSE’s approach uses information contemporaneous with the decision making process, so this analysis will not reflect updated assumptions for capacity, capital cost, or integration costs, etc.

Eligible Renewable: Wild Horse Wind Facility

Capacity Contribution Assumption:  $228.6 * 17.2\% = 39 \text{ MW}$



## 1. Calculate Wild Horse revenue requirement.

Figure N-146 is a sample of the annual revenue requirement calculations for the first few years of Wild Horse, along with the NPV of revenue requirement.

*Figure N-146: Calculation of Wild Horse Revenue Requirement*

(\$ Millions)	20-yr NPV	2007	2008	...	2025
Gross Plant		384	384	...	384
Accumulative depreciation (Avg.)		(10)	(29)	...	(355)
Accumulative deferred tax (EOP)		(20)	(56)	...	(7)
Rate base		354	299	...	22
After tax WACC		7.01%	7.01%	...	7.01%
After tax return		25	21	...	2
Grossed up return		38	32	...	2
PTC grossed up		(20)	(20)	...	-
Expenses		16	16	...	22
Book depreciation		19	19	...	19
Revenue required	370.9	53	48	...	44
End effects	4.6				
<b>Total revenue requirement</b>	<b>375</b>				



## 2. Calculate revenue requirement for equivalent non-renewable: Peaker capacity.

Capacity = 39 MW

Capital Cost of Capacity: \$462/KW

Figure N-147: Calculation of Peaker Revenue Requirement

(\$ Millions)	20-yr NPV	2007	2008	...	2025
Gross Plant		18	18	...	18
Accumulative depreciation (Avg.)		(0)	(1)	...	(10)
Accumulative deferred tax (EOP)		(0)	(0)	...	(3)
Rate base		18	17	...	5
After tax WACC		7.01%	7.01%	...	7.01%
After tax return		1	1	...	0
Grossed up return		2	2	...	0
Expenses		1	1	...	2
Book depreciation		1	1	...	1
Revenue required	32	4	4	...	3
End effects	2				
<b>Total revenue requirement</b>	<b>34</b>				



### 3. Calculate revenue requirement for equivalent non-renewable: Energy

Energy: 642,814 MWh

For the market purchase, we used the hourly power prices from the 2006 RFP plus a transmission adder of \$1.65/MWh in 2007 and escalated at 2.5 percent.

Figure N-148:: Calculation of Energy Revenue Requirement

Month	Day	Hour	20-yr NPV	2007	...	2025
1	1	1		49 MW * \$59/MW = \$2891	...	49 MW * \$61/MW = \$2989
1	1	2		92 MW * \$60/MW = \$5520	...	92 MW * \$63/MW = \$5796
...	....	...		...	...	...
12	31	24		13 MW * \$59/MW = \$767	...	13 MW * \$65/MW = \$845
<b>(\$Millions)</b>						
<b>Cost of Market</b>				36	...	41
<b>Imputed Debt</b>				1	...	0
<b>Total Revenue Requirement</b>			285	37	...	41



#### 4. Incremental cost

The table below is the total cost of Wild Horse less the cost of the peaker and less the cost of the market purchases for the total 20-year incremental cost difference of the renewable to an equivalent non-renewable.

*Figure N-149: 20-yr Incremental Cost of Wild Horse*

(\$ Millions)	20-yr NPV
Wild Horse	375
Peaker	34
Market	285
<b>20-yr Incremental Cost of Wild Horse</b>	<b>56</b>

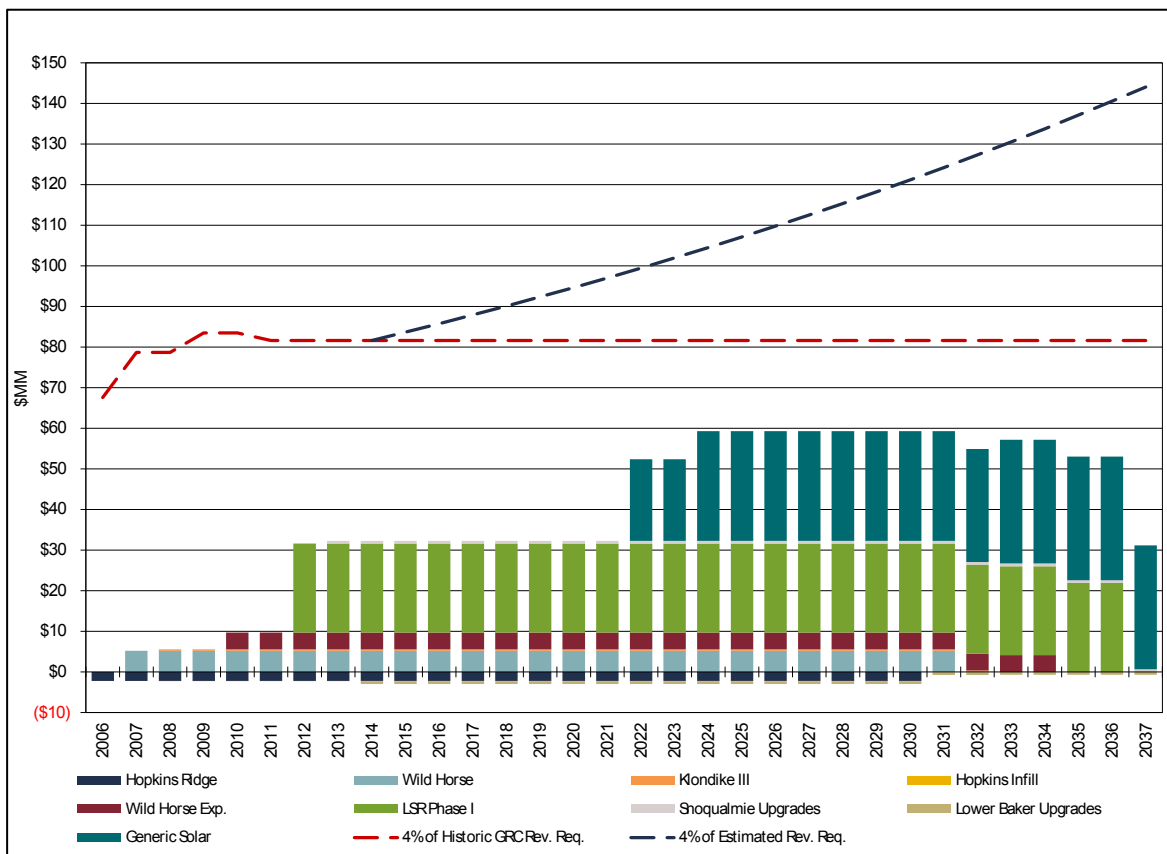
We chose to spread the incremental cost over 25 years since that is the depreciable life of a wind project used by PSE. The payment of \$56 Million over 25 years comes to \$5.2 Million per year using the 7.01 percent discount rate.



## Summary Results

Each renewable resource that counts towards meeting the renewable energy target was compared to an equivalent non-renewable resource starting in the same year and levelized over the book life of the plant: 25 years for wind power and 40 years for hydroelectric power. Figure N-150 presents results of this analysis for existing resources and projected resources. This demonstrates PSE expects to meet the physical targets under RCW 19.285 without being constrained by the cost cap. A negative cost difference means that the renewable was lower-cost than the equivalent non-renewable, while a positive cost means that the renewable was a higher cost.

*Figure N-150: Equivalent Non-renewable 20-year Levelized Cost Difference Compared to 4% of 2011 GRC Revenue Requirement + 2014 PCORC Adjustment*





As the chart reveals, even if the company's revenue requirement were to stay the same for the next 10 years, PSE would still not hit the 4 percent requirement. The estimated revenue requirement uses a 2.5 percent assumed escalation from the company's current revenue requirement.

## General Instructions:

- Grey shading indicates cells where information is not required
- Yellow shading indicate cells where inputs are entered
- Green shading indicate cells with dropdown lists
- White shading indicate formulated cells
- Blue shading indicates summary calculations

## "Compliance Summary" Worksheet

Enter "X" When Complete	Checklist Item	Cell/Row Description	Units	Cell/Row	Comments
	1	Reporting Entity	Text	B2	Enter the name of the reporting entity
	2	Reporting Date	Year	B4	Enter the date the report is submitted
	3	Delivered Load to Retail Customers	MWh	B7:E7	Enter the MWh delivered to customers

## "Facility Detail" Worksheet

Enter "X" When Complete	Checklist Item	Cell/Row Description	Units	Cell/Row	Comments
<b>Instructions in the section are for the cells B2:F31. Each row represents a different facility. FIRST UPDATE cell B1053 For Start Year</b>					
	1	Facility Name	Text	B2:B31	Enter the name of the qualifying facility or contract
	2	WREGIS ID	Text	C2:C31	Enter the WREGIS ID for the qualifying facility
	3	Facility Type	Toggle	D2:D31	Select the generation type for the qualifying facility
	4	Extra Apprenticeship Credit Eligibility	Toggle	E2:E31	For facilities that qualify for extra apprenticeship credits select "Eligible". Select "Not Eligible for non-qualifying facilities.
	5	Distributed Generation Eligibility	Toggle	F2:F31	For facilities that qualify for distributed generation select "Eligible". Select "Not Eligible for non-qualifying facilities.

Enter "X" When Complete	Checklist Item	Cell/Row Description	Units	Cell/Row	Comments
<b>Instructions in this section identify the input locations for the 1st facility found in the "Facility Detail" worksheet. Inputs for facilities 2 through 30, also found in the "Facility Detail" worksheet, are identical to facility 1.</b>					
	6	Total MWh Produced from Facility	Number	D39:F39	Enter the annual MWh output from the qualifying facility
	7	Percent of MWh Qualifying	%	D40:F40	Enter the percent of MWh produced that are eligible for meeting RCW 19.285
	8	Percent of Qualifying MWh Allocated to WA State Compliance	%	D41:F41	Enter the percent of qualifying MWh used for compliance with RCW 19.285. Used for facilities that are utilized for RPS compliance in two or more states.
	9	Quantity of RECs from MWh Sold	Number	D50:F50	Enter the annual amount of RECs sold. For Multi-Jurisdictional Utilities, enter in annual WA allocated amount of RECs sold.
	10	Bonus Incentives Transferred	Number	D51:F51	Enter the annual amount of transferred RECs procured from bonus incentives
	11	Bonus Incentives Not Realized	Number	D52:F52	Enter the annual number of bonus incentives that were not realized
	12	2011 Surplus Applied to 2012	Number	D56	Enter the amount of RECs procured in 2011 used for compliance in 2012
	13	2012 Surplus Applied to 2011	Number	E57	Enter the amount of RECs procured in 2012 used for compliance in 2011
	14	2012 Surplus Applied to 2013	Number	E58	Enter the amount of RECs procured in 2012 used for compliance in 2013
	15	2013 Surplus Applied to 2012	Number	F59	Enter the amount of RECs procured in 2013 used for compliance in 2012



**Reporting Entity:**

**Puget Sound Energy**

**Reporting Date:**

**June 1, 2020**

**RCW 19.285 Compliance Need**

Delivered Load to Retail Customers (MWh)  
WA State RCW 19.285 Requirement  
**Quantity Required for Compliance**

	2016	2017	2018	2019	2020
Delivered Load to Retail Customers (MWh)	20,448,423	21,316,397	20,697,195	20,833,230	Not Applicable
WA State RCW 19.285 Requirement	3%	9%	9%	9%	15%
<b>Quantity Required for Compliance</b>	<b>1,848,542</b>	<b>1,843,118</b>	<b>1,879,417</b>	<b>1,890,612</b>	<b>3,114,782</b>

**Eligible Quantity Acquired**

Qualifying MWh Allocated to WA  
Quantity from Non REC Eligible Generation  
**Total Quantity Available for RCW 19.285 Compliance**

	2016	2017	2018	2019	2020
Qualifying MWh Allocated to WA	2,205,548	1,934,234	2,175,902	2,105,243	1,868,775
Quantity from Non REC Eligible Generation	195,475	162,488	196,505	162,027	164,986
<b>Total Quantity Available for RCW 19.285 Compliance</b>	<b>2,401,023</b>	<b>2,096,722</b>	<b>2,372,407</b>	<b>2,267,270</b>	<b>2,033,761</b>

**Sales and Transfers**

Quantity of RECs Sold  
Bonus Incentives Transferred  
Bonus Incentives Not Realized  
**Total Sold / Transferred / Unrealized**

	2016	2017	2018	2019	2020
Quantity of RECs Sold	(521,270)	(175,982)	(447,259)	(197,470)	-
Bonus Incentives Transferred	-	-	-	-	-
Bonus Incentives Not Realized	-	-	-	-	-
<b>Total Sold / Transferred / Unrealized</b>	<b>(521,270)</b>	<b>(175,982)</b>	<b>(447,259)</b>	<b>(197,470)</b>	<b>-</b>

**Adjustments**

2015 Surplus Applied to 2016  
2016 Surplus Applied to 2015  
2016 Surplus Applied to 2017  
2017 Surplus Applied to 2016  
2017 Surplus Applied to 2018  
2018 Surplus Applied to 2017  
2018 Surplus Applied to 2019  
2019 Surplus Applied to 2018  
2019 Surplus Applied to 2020  
2020 Surplus Applied to 2019  
**Net Surplus Adjustments**

	2016	2017	2018	2019	2020
2015 Surplus Applied to 2016	1,757,710				
2016 Surplus Applied to 2015					
2016 Surplus Applied to 2017	(1,760,729)	1,760,729			
2017 Surplus Applied to 2016	-	-			
2017 Surplus Applied to 2018		(1,771,252)	1,771,252		
2018 Surplus Applied to 2017		-	-		
2018 Surplus Applied to 2019			(1,799,654)	1,799,654	
2019 Surplus Applied to 2018			-	-	
2019 Surplus Applied to 2020				(1,978,763)	1,978,763
2020 Surplus Applied to 2019				-	-
<b>Net Surplus Adjustments</b>	<b>(3,018)</b>	<b>(10,523)</b>	<b>(28,402)</b>	<b>(179,110)</b>	<b>1,978,763</b>

**Adjustment for Events Beyond Control**

	-	-	-	-	-
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**RCW 19.285 Compliance Surplus / (Deficit)**

	2016	2017	2018	2019	2020
<b>RCW 19.285 Compliance Surplus / (Deficit)</b>	<b>28,192</b>	<b>67,098</b>	<b>17,329</b>	<b>79</b>	<b>897,742</b>

**Actual Retirements for RPS Compliance**

	1,649,762	1,647,643	1,716,929
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In both the "Compliance Summary" and "Facility Detail" worksheets, utilities may need to protect commercially sensitive information by use of the CONFIDENTIAL designation.

Facility Name:	Facility WREGIS ID:	Facility Type	Extra Apprenticeship Credit Eligibility:	Distributed Generation Bonus Eligibility:	Online Date:
Wild Horse	W183	Wind	Not Eligible	---	
Hopkins Ridge	W184	Wind	Not Eligible	---	
Klondike III	W237	Wind	Not Eligible	---	
Wild Horse Phase II	W1364	Wind	Eligible	---	
Hopkins Ridge Phase II	W1382	Wind	Not Eligible	---	
Lower Snake River - Dodge Junction	W2669	Wind	Eligible	---	
Lower Snake River - Phalen Gulch	W2670	Wind	Eligible	---	
Wanapum Fish Bypass	Not Available	Water (Incremental Hydro)	Not Eligible	---	
Baker River Project	W4865	Water (Incremental Hydro)	Not Eligible	---	
Snoqualmie Falls Project	W4866	Water (Incremental Hydro)	Not Eligible	---	
Klondike 1--REC only**	W238	Wind	Not Eligible	---	
Stateline WA Wind--REC Only **	W248	Wind	Not Eligible	---	
Horse Butte Wind--REC only **	W3260	Wind	Not Eligible	---	
Grand View 5 East--REC Only**	W5069	Solar	Not Eligible	---	
Grand View 2 West--REC Only **	W5070	Solar	Not Eligible	---	
ID Solar 1 -- REC Only **	W5076	Solar	Not Eligible	---	
Condon Wind Power -- REC Only **	W774	Wind	Not Eligible	---	
Condon Wind Power Phase II -- REC Only **	W833	Wind	Not Eligible	---	
Camp Reed Wind Park - Camp Reed Wind Park -- REC Only **	W1875	Wind	Not Eligible	---	
Golden Valley Wind Park - Golden Valley Wind Park -- REC Only **	W1862	Wind	Not Eligible	---	
Klondike III - Klondike Wind Power III LLC -- REC Only **	W237	Wind	Not Eligible	---	
Meadow Creek Wind Farm - Five Pine Project -- REC Only **	W3186	Wind	Not Eligible	---	
Meadow Creek Wind Farm - North Point Wind Farm -- REC Only **	W3185	Wind	Not Eligible	---	
Mountain Air Wind Projects - Mountain Air Wind Projects -- REC Only *	W2869	Wind	Not Eligible	---	
Nine Canyon Wind Project - Nine Canyon Phase 3 -- REC Only **	W697	Wind	Not Eligible	---	
Oregon Trail Wind Park, LLC - Oregon Trail Wind Park -- REC Only **	W1882	Wind	Not Eligible	---	
PaTu Wind Farm - PaTu Wind -- REC Only **	W1844	Wind	Not Eligible	---	
Roseburg LFG - Roseburg LFG Energy -- REC Only **	W2616	Landfill Gas	Not Eligible	---	
Salmon Falls Wind Park, LLC - Salmon Falls Wind Park -- REC Only **	W1885	Wind	Not Eligible	---	
Sawtooth Wind Project - Sawtooth Wind Project -- REC Only **	W2323	Wind	Not Eligible	---	
Thousand Springs Wind Park, LLC - Thousand Springs Wind Park -- REC On	W1881	Wind	Not Eligible	---	
Tuana Gulch Wind Park, LLC - Tuana Gulch Wind Park -- REC Only **	W1883	Wind	Not Eligible	---	
Tuana Springs Energy, LLC - Tuana Springs -- REC Only **	W1503	Wind	Not Eligible	---	
White Creek Wind 1 - White Creek -- REC Only **	W360	Wind	Not Eligible	---	
Facility 35			---	---	
Facility 36			---	---	
Facility 37			---	---	
Facility 38			---	---	
Facility 39			---	---	
Facility 40			---	---	

In both the "Compliance Summary" and "Facility Detail" worksheets, utilities may need to protect commercially sensitive information by use of the CONFIDENTIAL designation.

**Facility Name:**

**Wild Horse**

**MWh Allocated to WA Compliance**

Total MWh Produced / Purchased from Wild Horse  
 Percent of MWh Qualifying Under RCW 19.285  
 Percent of Qualifying MWh Allocated to WA  
**Eligible MWh Available for RCW 19.285 Compliance**

	2016	2017	2018	2019	2020
Total MWh Produced / Purchased from Wild Horse	564,671	516,263	537,534	516,216	477,826
Percent of MWh Qualifying Under RCW 19.285	100%	100%	100%	100%	100%
Percent of Qualifying MWh Allocated to WA	100%	100%	100%	100%	100%
<b>Eligible MWh Available for RCW 19.285 Compliance</b>	<b>564,671</b>	<b>516,263</b>	<b>537,534</b>	<b>516,216</b>	<b>477,826</b>

**Non REC Eligible Generation**

Extra Apprenticeship Credit  
 Distributed Generation Bonus  
**Total Quantity from Non REC Eligible Generation**

	2016	2017	2018	2019	2020
Extra Apprenticeship Credit	-	-	-	-	-
Distributed Generation Bonus	-	-	-	-	-
<b>Total Quantity from Non REC Eligible Generation</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

**REC Sales / Transfers**

Quantity of RECs Sold  
 Bonus Incentives Transferred  
 Bonus Incentives Not Realized  
**Total Sold / Transferred / Unrealized**

	2016	2017	2018	2019	2020
Quantity of RECs Sold	258,677	44,385	203,209	172,850	-
Bonus Incentives Transferred	-	-	-	-	-
Bonus Incentives Not Realized	-	-	-	-	-
<b>Total Sold / Transferred / Unrealized</b>	<b>258,677</b>	<b>44,385</b>	<b>203,209</b>	<b>172,850</b>	<b>-</b>

**Adjustments**

2015 Surplus Applied to 2016  
 2016 Surplus Applied to 2015  
 2016 Surplus Applied to 2017  
 2017 Surplus Applied to 2016  
 2017 Surplus Applied to 2018  
 2018 Surplus Applied to 2017  
 2018 Surplus Applied to 2019  
 2019 Surplus Applied to 2018  
 2019 Surplus Applied to 2020  
 2020 Surplus Applied to 2019  
**Net Surplus Adjustments**

	2016	2017	2018	2019	2020
2015 Surplus Applied to 2016	469,503				
2016 Surplus Applied to 2015	-				
2016 Surplus Applied to 2017	305,994	305,994			
2017 Surplus Applied to 2016	-	-			
2017 Surplus Applied to 2018		471,878	471,878		
2018 Surplus Applied to 2017		-	-		
2018 Surplus Applied to 2019			334,325	334,325	
2019 Surplus Applied to 2018			-	-	
2019 Surplus Applied to 2020				343,366	343,366
2020 Surplus Applied to 2019				-	-
<b>Net Surplus Adjustments</b>	<b>163,509</b>	<b>(165,884)</b>	<b>137,553</b>	<b>(9,041)</b>	<b>343,366</b>

Adjustment for Events Beyond Control

Adjustment for Events Beyond Control	-	-	-	-	-
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**Contribution to RCW 19.285 Compliance**

Actual Retirements for RPS Compliance

<b>Contribution to RCW 19.285 Compliance</b>	<b>469,503</b>	<b>305,994</b>	<b>471,878</b>	<b>334,325</b>	<b>821,192</b>
Actual Retirements for RPS Compliance	469,503	238,895	471,878		

**Facility Name:**

**Hopkins Ridge**

**MWh Allocated to WA Compliance**

Total MWh Produced / Purchased from Hopkins Ridge  
 Percent of MWh Qualifying Under RCW 19.285  
 Percent of Qualifying MWh Allocated to WA  
**Eligible MWh Available for RCW 19.285 Compliance**

	2016	2017	2018	2019	2020
Total MWh Produced / Purchased from Hopkins Ridge	398,058	329,544	392,020	324,844	346,466
Percent of MWh Qualifying Under RCW 19.285	100%	100%	100%	100%	100%
Percent of Qualifying MWh Allocated to WA	100%	100%	100%	100%	100%
<b>Eligible MWh Available for RCW 19.285 Compliance</b>	<b>398,058</b>	<b>329,544</b>	<b>392,020</b>	<b>324,844</b>	<b>346,466</b>

**Non REC Eligible Generation**

Extra Apprenticeship Credit  
 Distributed Generation Bonus  
**Total Quantity from Non REC Eligible Generation**

	2016	2017	2018	2019	2020
Extra Apprenticeship Credit	-	-	-	-	-
Distributed Generation Bonus	-	-	-	-	-
<b>Total Quantity from Non REC Eligible Generation</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

**REC Sales / Transfers**

Quantity of RECs Sold  
 Bonus Incentives Transferred  
 Bonus Incentives Not Realized  
**Total Sold / Transferred / Unrealized**

	2016	2017	2018	2019	2020
Quantity of RECs Sold	190,560	74,400	176,270	-	-
Bonus Incentives Transferred	-	-	-	-	-
Bonus Incentives Not Realized	-	-	-	-	-
<b>Total Sold / Transferred / Unrealized</b>	<b>190,560</b>	<b>74,400</b>	<b>176,270</b>	<b>-</b>	<b>-</b>

**Adjustments**

2015 Surplus Applied to 2016  
 2016 Surplus Applied to 2015  
 2016 Surplus Applied to 2017  
 2017 Surplus Applied to 2016  
 2017 Surplus Applied to 2018  
 2018 Surplus Applied to 2017  
 2018 Surplus Applied to 2019  
 2019 Surplus Applied to 2018  
 2019 Surplus Applied to 2020  
 2020 Surplus Applied to 2019  
**Net Surplus Adjustments**

	2016	2017	2018	2019	2020
2015 Surplus Applied to 2016	238,385				
2016 Surplus Applied to 2015	-				
2016 Surplus Applied to 2017	207,498	207,498			
2017 Surplus Applied to 2016	-	-			
2017 Surplus Applied to 2018		255,144	255,144		
2018 Surplus Applied to 2017		-	-		
2018 Surplus Applied to 2019			215,750	215,750	
2019 Surplus Applied to 2018			-	-	
2019 Surplus Applied to 2020				324,844	324,844
2020 Surplus Applied to 2019				-	-
<b>Net Surplus Adjustments</b>	<b>30,887</b>	<b>(47,646)</b>	<b>39,394</b>	<b>(109,094)</b>	<b>324,844</b>

Adjustment for Events Beyond Control

Adjustment for Events Beyond Control	-	-	-	-	-
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**Contribution to RCW 19.285 Compliance**

Actual Retirements for RPS Compliance

<b>Contribution to RCW 19.285 Compliance</b>	<b>238,385</b>	<b>207,498</b>	<b>255,144</b>	<b>215,750</b>	<b>671,310</b>
Actual Retirements for RPS Compliance	238,385	207,498	237,815		

**Facility Name:**

**Klondike III**

**MWh Allocated to WA Compliance**

Total MWh Produced / Purchased from Klondike III  
 Percent of MWh Qualifying Under RCW 19.285  
 Percent of Qualifying MWh Allocated to WA  
 Eligible MWh Available for RCW 19.285 Compliance

	2016	2017	2018	2019	2020
Total MWh Produced / Purchased from Klondike III	127,238	110,618	119,438	117,651	113,917
Percent of MWh Qualifying Under RCW 19.285	100%	100%	100%	100%	100%
Percent of Qualifying MWh Allocated to WA	100%	100%	100%	100%	100%
<b>Eligible MWh Available for RCW 19.285 Compliance</b>	<b>127,238</b>	<b>110,618</b>	<b>119,438</b>	<b>117,651</b>	<b>113,917</b>

**Non REC Eligible Generation**

Extra Apprenticeship Credit  
 Distributed Generation Bonus  
 Total Quantity from Non REC Eligible Generation

	2016	2017	2018	2019	2020
Extra Apprenticeship Credit	-	-	-	-	-
Distributed Generation Bonus	-	-	-	-	-
<b>Total Quantity from Non REC Eligible Generation</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

**REC Sales / Transfers**

Quantity of RECs Sold  
 Bonus Incentives Transferred  
 Bonus Incentives Not Realized  
 Total Sold / Transferred / Unrealized

	2016	2017	2018	2019	2020
Quantity of RECs Sold	62,849	57,197	57,609	24,620	-
Bonus Incentives Transferred	-	-	-	-	-
Bonus Incentives Not Realized	-	-	-	-	-
<b>Total Sold / Transferred / Unrealized</b>	<b>62,849</b>	<b>57,197</b>	<b>57,609</b>	<b>24,620</b>	<b>-</b>

**Adjustments**

2015 Surplus Applied to 2016  
 2016 Surplus Applied to 2015  
 2016 Surplus Applied to 2017  
 2017 Surplus Applied to 2016  
 2017 Surplus Applied to 2018  
 2018 Surplus Applied to 2017  
 2018 Surplus Applied to 2019  
 2019 Surplus Applied to 2018  
 2019 Surplus Applied to 2020  
 2020 Surplus Applied to 2019  
 Net Surplus Adjustments

	2016	2017	2018	2019	2020
2015 Surplus Applied to 2016	60,908				
2016 Surplus Applied to 2015	-				
2016 Surplus Applied to 2017	64,389	64,389			
2017 Surplus Applied to 2016	-	-			
2017 Surplus Applied to 2018		53,421	53,421		
2018 Surplus Applied to 2017		-	-		
2018 Surplus Applied to 2019			61,829	61,829	
2019 Surplus Applied to 2018			-	-	
2019 Surplus Applied to 2020				93,031	93,031
2020 Surplus Applied to 2019				-	-
<b>Net Surplus Adjustments</b>	<b>(3,481)</b>	<b>10,968</b>	<b>(8,408)</b>	<b>(31,202)</b>	<b>93,031</b>

Adjustment for Events Beyond Control

Adjustment for Events Beyond Control	-	-	-	-	-
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**Contribution to RCW 19.285 Compliance**

Actual Retirements for RPS Compliance

<b>Contribution to RCW 19.285 Compliance</b>	<b>60,908</b>	<b>64,389</b>	<b>53,421</b>	<b>61,829</b>	<b>206,948</b>
Actual Retirements for RPS Compliance	32,714	64,389	53,421		

Facility Name:

**Wild Horse Phase II**

**MWh Allocated to WA Compliance**

Total MWh Produced / Purchased from Wild Horse Phase II  
 Percent of MWh Qualifying Under RCW 19.285  
 Percent of Qualifying MWh Allocated to WA  
 Eligible MWh Available for RCW 19.285 Compliance

	2016	2017	2018	2019	2020
Total MWh Produced / Purchased from Wild Horse Phase II	108,686	99,368	103,462	99,359	90,930
Percent of MWh Qualifying Under RCW 19.285	100%	100%	100%	100%	100%
Percent of Qualifying MWh Allocated to WA	100%	100%	100%	100%	100%
Eligible MWh Available for RCW 19.285 Compliance	108,686	99,368	103,462	99,359	90,930

**Non REC Eligible Generation**

Extra Apprenticeship Credit  
 Distributed Generation Bonus  
 Total Quantity from Non REC Eligible Generation

	2016	2017	2018	2019	2020
Extra Apprenticeship Credit	21,737	19,874	20,692	19,872	18,186
Distributed Generation Bonus	-	-	-	-	-
Total Quantity from Non REC Eligible Generation	21,737	19,874	20,692	19,872	18,186

**REC Sales / Transfers**

Quantity of RECs Sold  
 Bonus Incentives Transferred  
 Bonus Incentives Not Realized  
 Total Sold / Transferred / Unrealized

	2016	2017	2018	2019	2020
Quantity of RECs Sold	-	-	-	-	-
Bonus Incentives Transferred	-	-	-	-	-
Bonus Incentives Not Realized	-	-	-	-	-
Total Sold / Transferred / Unrealized	-	-	-	-	-

**Adjustments**

2015 Surplus Applied to 2016  
 2016 Surplus Applied to 2015  
 2016 Surplus Applied to 2017  
 2017 Surplus Applied to 2016  
 2017 Surplus Applied to 2018  
 2018 Surplus Applied to 2017  
 2018 Surplus Applied to 2019  
 2019 Surplus Applied to 2018  
 2019 Surplus Applied to 2020  
 2020 Surplus Applied to 2019  
 Net Surplus Adjustments

	2016	2017	2018	2019	2020
2015 Surplus Applied to 2016	106,432				
2016 Surplus Applied to 2015	-				
2016 Surplus Applied to 2017	130,423	130,423			
2017 Surplus Applied to 2016	-	-			
2017 Surplus Applied to 2018		119,242	119,242		
2018 Surplus Applied to 2017		-	-		
2018 Surplus Applied to 2019			124,154	124,154	
2019 Surplus Applied to 2018			-	-	
2019 Surplus Applied to 2020				119,231	119,231
2020 Surplus Applied to 2019				-	-
Net Surplus Adjustments	(23,992)	11,182	(4,913)	4,924	119,231

Adjustment for Events Beyond Control

Adjustment for Events Beyond Control	-	-	-	-	-
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**Contribution to RCW 19.285 Compliance**

Actual Retirements for RPS Compliance

Contribution to RCW 19.285 Compliance	106,432	130,423	119,242	124,154	228,347
Actual Retirements for RPS Compliance	88,693	108,686	99,368		

**Facility Name:**

**Hopkins Ridge Phase II**

**MWh Allocated to WA Compliance**

Total MWh Produced / Purchased from Hopkins Ridge Phase II  
 Percent of MWh Qualifying Under RCW 19.285  
 Percent of Qualifying MWh Allocated to WA  
**Eligible MWh Available for RCW 19.285 Compliance**

	2016	2017	2018	2019	2020
Total MWh Produced / Purchased from Hopkins Ridge Phase II	19,184	15,881	18,893	15,655	17,545
Percent of MWh Qualifying Under RCW 19.285	100%	100%	100%	100%	100%
Percent of Qualifying MWh Allocated to WA	100%	100%	100%	100%	100%
<b>Eligible MWh Available for RCW 19.285 Compliance</b>	<b>19,184</b>	<b>15,881</b>	<b>18,893</b>	<b>15,655</b>	<b>17,545</b>

**Non REC Eligible Generation**

Extra Apprenticeship Credit  
 Distributed Generation Bonus  
**Total Quantity from Non REC Eligible Generation**

	2016	2017	2018	2019	2020
Extra Apprenticeship Credit	-	-	-	-	-
Distributed Generation Bonus	-	-	-	-	-
<b>Total Quantity from Non REC Eligible Generation</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

**REC Sales / Transfers**

Quantity of RECs Sold  
 Bonus Incentives Transferred  
 Bonus Incentives Not Realized  
**Total Sold / Transferred / Unrealized**

	2016	2017	2018	2019	2020
Quantity of RECs Sold	9,184	-	10,171	-	-
Bonus Incentives Transferred	-	-	-	-	-
Bonus Incentives Not Realized	-	-	-	-	-
<b>Total Sold / Transferred / Unrealized</b>	<b>9,184</b>	<b>-</b>	<b>10,171</b>	<b>-</b>	<b>-</b>

**Adjustments**

2015 Surplus Applied to 2016  
 2016 Surplus Applied to 2015  
 2016 Surplus Applied to 2017  
 2017 Surplus Applied to 2016  
 2017 Surplus Applied to 2018  
 2018 Surplus Applied to 2017  
 2018 Surplus Applied to 2019  
 2019 Surplus Applied to 2018  
 2019 Surplus Applied to 2020  
 2020 Surplus Applied to 2019  
**Net Surplus Adjustments**

	2016	2017	2018	2019	2020
2015 Surplus Applied to 2016	14,879				
2016 Surplus Applied to 2015	-				
2016 Surplus Applied to 2017	10,000	10,000			
2017 Surplus Applied to 2016	-	-			
2017 Surplus Applied to 2018		15,881	15,881		
2018 Surplus Applied to 2017		-	-		
2018 Surplus Applied to 2019			8,722	8,722	
2019 Surplus Applied to 2018			-	-	
2019 Surplus Applied to 2020				15,655	15,655
2020 Surplus Applied to 2019				-	-
<b>Net Surplus Adjustments</b>	<b>4,879</b>	<b>(5,881)</b>	<b>7,159</b>	<b>(6,933)</b>	<b>15,655</b>

**Adjustment for Events Beyond Control**

<b>Adjustment for Events Beyond Control</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
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**Contribution to RCW 19.285 Compliance**

Actual Retirements for RPS Compliance

<b>Contribution to RCW 19.285 Compliance</b>	<b>14,879</b>	<b>10,000</b>	<b>15,881</b>	<b>8,722</b>	<b>33,200</b>
Actual Retirements for RPS Compliance	14,879	10,000	15,881		

Facility Name:

**Lower Snake River - Dodge Junction**

**MWh Allocated to WA Compliance**

Total MWh Produced / Purchased from Lower Snake River - Dodge Junction  
 Percent of MWh Qualifying Under RCW 19.285  
 Percent of Qualifying MWh Allocated to WA  
 Eligible MWh Available for RCW 19.285 Compliance

	2016	2017	2018	2019	2020
Total MWh Produced / Purchased from Lower Snake River - Dodge Junction	500,734	413,806	508,243	412,098	423,793
Percent of MWh Qualifying Under RCW 19.285	100%	100%	100%	100%	100%
Percent of Qualifying MWh Allocated to WA	100%	100%	100%	100%	100%
<b>Eligible MWh Available for RCW 19.285 Compliance</b>	<b>500,734</b>	<b>413,806</b>	<b>508,243</b>	<b>412,098</b>	<b>423,793</b>

**Non REC Eligible Generation**

Extra Apprenticeship Credit  
 Distributed Generation Bonus  
**Total Quantity from Non REC Eligible Generation**

	2016	2017	2018	2019	2020
Extra Apprenticeship Credit	100,147	82,761	101,649	82,420	84,759
Distributed Generation Bonus	-	-	-	-	-
<b>Total Quantity from Non REC Eligible Generation</b>	<b>100,147</b>	<b>82,761</b>	<b>101,649</b>	<b>82,420</b>	<b>84,759</b>

**REC Sales / Transfers**

Quantity of RECs Sold  
 Bonus Incentives Transferred  
 Bonus Incentives Not Realized  
**Total Sold / Transferred / Unrealized**

	2016	2017	2018	2019	2020
Quantity of RECs Sold	-	-	-	-	-
Bonus Incentives Transferred	-	-	-	-	-
Bonus Incentives Not Realized	-	-	-	-	-
<b>Total Sold / Transferred / Unrealized</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

**Adjustments**

2015 Surplus Applied to 2016  
 2016 Surplus Applied to 2015  
 2016 Surplus Applied to 2017  
 2017 Surplus Applied to 2016  
 2017 Surplus Applied to 2018  
 2018 Surplus Applied to 2017  
 2018 Surplus Applied to 2019  
 2019 Surplus Applied to 2018  
 2019 Surplus Applied to 2020  
 2020 Surplus Applied to 2019  
**Net Surplus Adjustments**

	2016	2017	2018	2019	2020
2015 Surplus Applied to 2016	505,872				
2016 Surplus Applied to 2015	-				
2016 Surplus Applied to 2017	600,881	600,881			
2017 Surplus Applied to 2016	-	-			
2017 Surplus Applied to 2018		496,567	496,567		
2018 Surplus Applied to 2017		-	-		
2018 Surplus Applied to 2019			609,892	609,892	
2019 Surplus Applied to 2018			-	-	
2019 Surplus Applied to 2020				494,518	494,518
2020 Surplus Applied to 2019				-	-
<b>Net Surplus Adjustments</b>	<b>(95,009)</b>	<b>104,314</b>	<b>(113,324)</b>	<b>115,374</b>	<b>494,518</b>

Adjustment for Events Beyond Control

Adjustment for Events Beyond Control	-	-	-	-	-
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**Contribution to RCW 19.285 Compliance**

Actual Retirements for RPS Compliance

<b>Contribution to RCW 19.285 Compliance</b>	<b>505,872</b>	<b>600,881</b>	<b>496,567</b>	<b>609,892</b>	<b>1,003,069</b>
Actual Retirements for RPS Compliance	421,560	500,734	413,806		



**Lower Snake River - Phalen Gulch**

**MWh Allocated to WA Compliance**

Total MWh Produced / Purchased from Lower Snake River - Phalen Gulch  
 Percent of MWh Qualifying Under RCW 19.285  
 Percent of Qualifying MWh Allocated to WA  
 Eligible MWh Available for RCW 19.285 Compliance

	2016	2017	2018	2019	2020
Total MWh Produced / Purchased from Lower Snake River - Phalen Gulch	367,953	299,266	370,818	298,679	310,207
Percent of MWh Qualifying Under RCW 19.285	100%	100%	100%	100%	100%
Percent of Qualifying MWh Allocated to WA	100%	100%	100%	100%	100%
<b>Eligible MWh Available for RCW 19.285 Compliance</b>	<b>367,953</b>	<b>299,266</b>	<b>370,818</b>	<b>298,679</b>	<b>310,207</b>

**Non REC Eligible Generation**

Extra Apprenticeship Credit  
 Distributed Generation Bonus  
 Total Quantity from Non REC Eligible Generation

	2016	2017	2018	2019	2020
Extra Apprenticeship Credit	73,591	59,853	74,164	59,736	62,041
Distributed Generation Bonus	-	-	-	-	-
<b>Total Quantity from Non REC Eligible Generation</b>	<b>73,591</b>	<b>59,853</b>	<b>74,164</b>	<b>59,736</b>	<b>62,041</b>

**REC Sales / Transfers**

Quantity of RECs Sold  
 Bonus Incentives Transferred  
 Bonus Incentives Not Realized  
 Total Sold / Transferred / Unrealized

	2016	2017	2018	2019	2020
Quantity of RECs Sold	-	-	-	-	-
Bonus Incentives Transferred	-	-	-	-	-
Bonus Incentives Not Realized	-	-	-	-	-
<b>Total Sold / Transferred / Unrealized</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

**Adjustments**

2015 Surplus Applied to 2016  
 2016 Surplus Applied to 2015  
 2016 Surplus Applied to 2017  
 2017 Surplus Applied to 2016  
 2017 Surplus Applied to 2018  
 2018 Surplus Applied to 2017  
 2018 Surplus Applied to 2019  
 2019 Surplus Applied to 2018  
 2019 Surplus Applied to 2020  
 2020 Surplus Applied to 2019  
 Net Surplus Adjustments

	2016	2017	2018	2019	2020
2015 Surplus Applied to 2016	361,732				
2016 Surplus Applied to 2015	-				
2016 Surplus Applied to 2017	441,544	441,544			
2017 Surplus Applied to 2016	-	-			
2017 Surplus Applied to 2018		359,119	359,119		
2018 Surplus Applied to 2017		-	-		
2018 Surplus Applied to 2019			444,982	444,982	
2019 Surplus Applied to 2018			-	-	
2019 Surplus Applied to 2020				358,415	358,415
2020 Surplus Applied to 2019				-	-
<b>Net Surplus Adjustments</b>	<b>(79,812)</b>	<b>82,424</b>	<b>(85,862)</b>	<b>86,567</b>	<b>358,415</b>

Adjustment for Events Beyond Control

Adjustment for Events Beyond Control	-	-	-	-	-
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**Contribution to RCW 19.285 Compliance**

Actual Retirements for RPS Compliance

<b>Contribution to RCW 19.285 Compliance</b>	<b>361,732</b>	<b>441,544</b>	<b>359,119</b>	<b>444,982</b>	<b>730,663</b>
Actual Retirements for RPS Compliance	301,443	367,953	299,266		

**Facility Name:**

**Wanapum Fish Bypass**

**MWh Allocated to WA Compliance**

Total MWh Produced / Purchased from Wanapum Fish Bypass  
 Percent of MWh Qualifying Under RCW 19.285  
 Percent of Qualifying MWh Allocated to WA  
**Eligible MWh Available for RCW 19.285 Compliance**

	2016	2017	2018	2019	2020
Not Eligible		Not Eligible	Not Eligible	Not Eligible	Not Eligible
	100%	100%	100%	100%	100%
	100%	100%	100%	100%	100%
	-	-	-	-	-

**Non REC Eligible Generation**

Extra Apprenticeship Credit  
 Distributed Generation Bonus  
**Total Quantity from Non REC Eligible Generation**

	2016	2017	2018	2019	2020
	-	-	-	-	-
	-	-	-	-	-
	-	-	-	-	-

**REC Sales / Transfers**

Quantity of RECs Sold  
 Bonus Incentives Transferred  
 Bonus Incentives Not Realized  
**Total Sold / Transferred / Unrealized**

	2016	2017	2018	2019	2020
	-	-	-	-	-
	-	-	-	-	-
	-	-	-	-	-
	-	-	-	-	-

**Adjustments**

2015 Surplus Applied to 2016  
 2016 Surplus Applied to 2015  
 2016 Surplus Applied to 2017  
 2017 Surplus Applied to 2016  
 2017 Surplus Applied to 2018  
 2018 Surplus Applied to 2017  
 2018 Surplus Applied to 2019  
 2019 Surplus Applied to 2018  
 2019 Surplus Applied to 2020  
 2020 Surplus Applied to 2019  
**Net Surplus Adjustments**

	2016	2017	2018	2019	2020
	-				
	-				
	-	-			
	-	-			
		-	-		
		-	-		
			-	-	
			-	-	-
			-	-	-
	-	-	-	-	-

**Adjustment for Events Beyond Control**

	-	-	-	-	-
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**Contribution to RCW 19.285 Compliance**

Use of Wanapum Fish Bypass for RPS Compliance will be dependent upon Grant County filing WREGIS registration. To-date Grant County has not filed Wanapum in WREGIS!

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**Facility Name:**

**Baker River Project**

**MWh Allocated to WA Compliance**

Total MWh Produced / Purchased from Baker River Project  
 Percent of MWh Qualifying Under RCW 19.285  
 Percent of Qualifying MWh Allocated to WA  
**Eligible MWh Available for RCW 19.285 Compliance**

	2016	2017	2018	2019	2020
Total MWh Produced / Purchased from Baker River Project	358,833	313,000	385,059	263,625	249,799
Percent of MWh Qualifying Under RCW 19.285	28.3%	28.3%	28.3%	28.3%	28.3%
Percent of Qualifying MWh Allocated to WA	100%	100%	100%	100%	100%
<b>Eligible MWh Available for RCW 19.285 Compliance</b>	<b>101,550</b>	<b>88,579</b>	<b>108,971</b>	<b>74,606</b>	<b>70,693</b>

**Non REC Eligible Generation**

Extra Apprenticeship Credit  
 Distributed Generation Bonus  
**Total Quantity from Non REC Eligible Generation**

	2016	2017	2018	2019	2020
Extra Apprenticeship Credit	-	-	-	-	-
Distributed Generation Bonus	-	-	-	-	-
<b>Total Quantity from Non REC Eligible Generation</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

**REC Sales / Transfers**

Quantity of RECs Sold  
 Bonus Incentives Transferred  
 Bonus Incentives Not Realized  
**Total Sold / Transferred / Unrealized**

	2016	2017	2018	2019	2020
Quantity of RECs Sold	-	-	-	-	-
Bonus Incentives Transferred	-	-	-	-	-
Bonus Incentives Not Realized	-	-	-	-	-
<b>Total Sold / Transferred / Unrealized</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

**Adjustments**

2015 Surplus Applied to 2016  
 2016 Surplus Applied to 2015  
 2016 Surplus Applied to 2017  
 2017 Surplus Applied to 2016  
 2017 Surplus Applied to 2018  
 2018 Surplus Applied to 2017  
 2018 Surplus Applied to 2019  
 2019 Surplus Applied to 2018  
 2019 Surplus Applied to 2020  
 2020 Surplus Applied to 2019  
**Net Surplus Adjustments**

	2016	2017	2018	2019	2020
2015 Surplus Applied to 2016	-				
2016 Surplus Applied to 2015	-				
2016 Surplus Applied to 2017	-	-			
2017 Surplus Applied to 2016	-	-			
2017 Surplus Applied to 2018	-	-	-		
2018 Surplus Applied to 2017		-	-		
2018 Surplus Applied to 2019			-	-	
2019 Surplus Applied to 2018			-	-	
2019 Surplus Applied to 2020				-	-
2020 Surplus Applied to 2019				-	-
<b>Net Surplus Adjustments</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

**Adjustment for Events Beyond Control**

<b>Adjustment for Events Beyond Control</b>	-	-	-	-	-
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**Contribution to RCW 19.285 Compliance**

**Actual Retirements for RPS Compliance**

<b>Contribution to RCW 19.285 Compliance</b>	<b>101,550</b>	<b>88,579</b>	<b>108,971</b>	<b>74,606</b>	<b>70,693</b>
<b>Actual Retirements for RPS Compliance</b>	<b>70,243</b>	<b>88,579</b>	<b>108,971</b>		

2019 generation estimated based on 3 year average of generation at this facility. Baker estimated RPS Eligible generation based on Incremental Hydro Calculation Method 2. Baker Project WREGIS Registration was completed June, 20:

**Facility Name:**

**Snoqualmie Falls Project**

**MWh Allocated to WA Compliance**

Total MWh Produced / Purchased from Snoqualmie Falls Project  
 Percent of MWh Qualifying Under RCW 19.285  
 Percent of Qualifying MWh Allocated to WA  
**Eligible MWh Available for RCW 19.285 Compliance**

	2016	2017	2018	2019	2020
Total MWh Produced / Purchased from Snoqualmie Falls Project	205,584	195,400	194,398	185,294	204,694
Percent of MWh Qualifying Under RCW 19.285	8.5%	8.5%	8.5%	8.5%	8.5%
Percent of Qualifying MWh Allocated to WA	100%	100%	100%	100%	100%
<b>Eligible MWh Available for RCW 19.285 Compliance</b>	<b>17,475</b>	<b>16,609</b>	<b>16,523</b>	<b>15,750</b>	<b>17,398</b>

**Non REC Eligible Generation**

Extra Apprenticeship Credit  
 Distributed Generation Bonus  
**Total Quantity from Non REC Eligible Generation**

	2016	2017	2018	2019	2020
Extra Apprenticeship Credit	-	-	-	-	-
Distributed Generation Bonus	-	-	-	-	-
<b>Total Quantity from Non REC Eligible Generation</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

**REC Sales / Transfers**

Quantity of RECs Sold  
 Bonus Incentives Transferred  
 Bonus Incentives Not Realized  
**Total Sold / Transferred / Unrealized**

	2016	2017	2018	2019	2020
Quantity of RECs Sold	-	-	-	-	-
Bonus Incentives Transferred	-	-	-	-	-
Bonus Incentives Not Realized	-	-	-	-	-
<b>Total Sold / Transferred / Unrealized</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

**Adjustments**

2015 Surplus Applied to 2016  
 2016 Surplus Applied to 2015  
 2016 Surplus Applied to 2017  
 2017 Surplus Applied to 2016  
 2017 Surplus Applied to 2018  
 2018 Surplus Applied to 2017  
 2018 Surplus Applied to 2019  
 2019 Surplus Applied to 2018  
 2019 Surplus Applied to 2020  
 2020 Surplus Applied to 2019  
**Net Surplus Adjustments**

	2016	2017	2018	2019	2020
2015 Surplus Applied to 2016	-				
2016 Surplus Applied to 2015	-				
2016 Surplus Applied to 2017	-	-			
2017 Surplus Applied to 2016	-	-			
2017 Surplus Applied to 2018		-	-		
2018 Surplus Applied to 2017		-	-		
2018 Surplus Applied to 2019			-	-	
2019 Surplus Applied to 2018			-	-	
2019 Surplus Applied to 2020				-	-
2020 Surplus Applied to 2019				-	-
<b>Net Surplus Adjustments</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

**Adjustment for Events Beyond Control**

<b>Adjustment for Events Beyond Control</b>	-	-	-	-	-
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**Contribution to RCW 19.285 Compliance**

**Actual Retirements for RPS Compliance**

<b>Contribution to RCW 19.285 Compliance</b>	<b>17,475</b>	<b>16,609</b>	<b>16,523</b>	<b>15,750</b>	<b>17,398</b>
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2019 generation estimated based on 3 year average of generation at this facility. Snoqualmie Falls Project estimated RPS Eligible generation based on Incremental Hydro Calculation Method 2. Snoqualmie Falls Project WREGIS Registra

Facility Name:

**Klondike 1--REC only\*\***

\*\* REC purchase only, no generation provided with purchase

**MWh Allocated to WA Compliance**

Purchased from Klondike 1--REC only\*\*  
 Percent of MWh Qualifying Under RCW 19.285  
 Percent of Qualifying MWh Allocated to WA  
**Eligible MWh Available for RCW 19.285 Compliance**

	2016	2017	2018	2019	2020
		968			
		100%			
	-	968	-	-	-

**Non REC Eligible Generation**

Extra Apprenticeship Credit  
 Distributed Generation Bonus  
**Total Quantity from Non REC Eligible Generation**

	2016	2017	2018	2019	2020
	-	-	-	-	-
	-	-	-	-	-
	-	-	-	-	-

**REC Sales / Transfers**

Quantity of RECs Sold  
 Bonus Incentives Transferred  
 Bonus Incentives Not Realized  
**Total Sold / Transferred / Unrealized**

	2016	2017	2018	2019	2020
	-	-	-	-	-
	-	-	-	-	-
	-	-	-	-	-
	-	-	-	-	-

**Adjustments**

2015 Surplus Applied to 2016  
 2016 Surplus Applied to 2015  
 2016 Surplus Applied to 2017  
 2017 Surplus Applied to 2016  
 2017 Surplus Applied to 2018  
 2018 Surplus Applied to 2017  
 2018 Surplus Applied to 2019  
 2019 Surplus Applied to 2018  
 2019 Surplus Applied to 2020  
 2020 Surplus Applied to 2019  
**Net Surplus Adjustments**

	2016	2017	2018	2019	2020
	-				
	-				
	-	-			
	-	-			
		-	-		
		-	-	-	
			-	-	
				-	-
				-	-
	-	-	-	-	-

Adjustment for Events Beyond Control

**Contribution to RCW 19.285 Compliance**

	-	-	-	-	-
	-	968	-	-	-

Actual Retirements for RPS Compliance 968

**Facility Name:**

**Stateline WA Wind--REC Only \*\***

\*\* REC purchase only, no generation provided with purchase

**MWh Allocated to WA Compliance**

Purchased from Stateline WA Wind--REC Only \*\*  
 Percent of MWh Qualifying Under RCW 19.285  
 Percent of Qualifying MWh Allocated to WA  
**Eligible MWh Available for RCW 19.285 Compliance**

	2016	2017	2018	2019	2020
		3,890			
		100%			
		100%			
	-	3,890	-	-	-

**Non REC Eligible Generation**

Extra Apprenticeship Credit  
 Distributed Generation Bonus  
**Total Quantity from Non REC Eligible Generation**

	2016	2017	2018	2019	2020
	-	-	-	-	-
	-	-	-	-	-
	-	-	-	-	-

**REC Sales / Transfers**

Quantity of RECs Sold  
 Bonus Incentives Transferred  
 Bonus Incentives Not Realized  
**Total Sold / Transferred / Unrealized**

	2016	2017	2018	2019	2020
	-	-	-	-	-
	-	-	-	-	-
	-	-	-	-	-
	-	-	-	-	-

**Adjustments**

2015 Surplus Applied to 2016  
 2016 Surplus Applied to 2015  
 2016 Surplus Applied to 2017  
 2017 Surplus Applied to 2016  
 2017 Surplus Applied to 2018  
 2018 Surplus Applied to 2017  
 2018 Surplus Applied to 2019  
 2019 Surplus Applied to 2018  
 2019 Surplus Applied to 2020  
 2020 Surplus Applied to 2019  
**Net Surplus Adjustments**

	2016	2017	2018	2019	2020
	-				
	-				
	-	-			
	-	-			
		-	-		
		-	-		
			-	-	
			-	-	
				-	-
				-	-
	-	-	-	-	-

Adjustment for Events Beyond Control

	-	-	-	-	-
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**Contribution to RCW 19.285 Compliance**

Actual Retirements for RPS Compliance

	-	3,890	-	-	-
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3,890

**Facility Name:**

**Horse Butte Wind--REC only \*\***

\*\* REC purchase only, no generation provided with purchase

**MWh Allocated to WA Compliance**

Purchased from Horse Butte Wind--REC only \*\*

Percent of MWh Qualifying Under RCW 19.285

Percent of Qualifying MWh Allocated to WA

**Eligible MWh Available for RCW 19.285 Compliance**

	2016	2017	2018	2019	2020
		27			
		100%			
		100%			
	-	27	-	-	-

**Non REC Eligible Generation**

Extra Apprenticeship Credit

Distributed Generation Bonus

**Total Quantity from Non REC Eligible Generation**

	2016	2017	2018	2019	2020
	-	-	-	-	-
	-	-	-	-	-
	-	-	-	-	-

**REC Sales / Transfers**

Quantity of RECs Sold

Bonus Incentives Transferred

Bonus Incentives Not Realized

**Total Sold / Transferred / Unrealized**

	2016	2017	2018	2019	2020
	-	-	-	-	-
	-	-	-	-	-
	-	-	-	-	-
	-	-	-	-	-

**Adjustments**

2015 Surplus Applied to 2016

2016 Surplus Applied to 2015

2016 Surplus Applied to 2017

2017 Surplus Applied to 2016

2017 Surplus Applied to 2018

2018 Surplus Applied to 2017

2018 Surplus Applied to 2019

2019 Surplus Applied to 2018

2019 Surplus Applied to 2020

2020 Surplus Applied to 2019

**Net Surplus Adjustments**

	2016	2017	2018	2019	2020
	-				
	-				
	-	-			
	-	-			
	-	-	-		
	-	-	-	-	
	-	-	-	-	
	-	-	-	-	-
	-	-	-	-	-
	-	-	-	-	-
	-	-	-	-	-

**Adjustment for Events Beyond Control**

	-	-	-	-	-
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**Contribution to RCW 19.285 Compliance**

	-	27	-	-	-
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Actual Retirements for RPS Compliance

27

**Facility Name:**

**Grand View 5 East--REC Only\*\***

\*\* REC purchase only, no generation provided with purchase

**MWh Allocated to WA Compliance**

Purchased from Grand View 5 East--REC Only\*\*

Percent of MWh Qualifying Under RCW 19.285

Percent of Qualifying MWh Allocated to WA

**Eligible MWh Available for RCW 19.285 Compliance**

	2016	2017	2018	2019	2020
		6,741			
		100%			
		100%			
	-	6,741	-	-	-

**Non REC Eligible Generation**

Extra Apprenticeship Credit

Distributed Generation Bonus

**Total Quantity from Non REC Eligible Generation**

	2016	2017	2018	2019	2020
	-	-	-	-	-
	-	-	-	-	-
	-	-	-	-	-

**REC Sales / Transfers**

Quantity of RECs Sold

Bonus Incentives Transferred

Bonus Incentives Not Realized

**Total Sold / Transferred / Unrealized**

	2016	2017	2018	2019	2020
	-	-	-	-	-
	-	-	-	-	-
	-	-	-	-	-
	-	-	-	-	-

**Adjustments**

2015 Surplus Applied to 2016

2016 Surplus Applied to 2015

2016 Surplus Applied to 2017

2017 Surplus Applied to 2016

2017 Surplus Applied to 2018

2018 Surplus Applied to 2017

2018 Surplus Applied to 2019

2019 Surplus Applied to 2018

2019 Surplus Applied to 2020

2020 Surplus Applied to 2019

**Net Surplus Adjustments**

	2016	2017	2018	2019	2020
	-				
	-				
	-	-			
	-	-			
		-	-		
		-	-		
			-	-	
			-	-	
				-	-
				-	-
	-	-	-	-	-

Adjustment for Events Beyond Control

	-	-	-	-	-
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**Contribution to RCW 19.285 Compliance**

	-	6,741	-	-	-
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Actual Retirements for RPS Compliance

6,741



Facility Name:

**Grand View 2 West--REC Only \*\***

\*\* REC purchase only, no generation provided with purchase

**MWh Allocated to WA Compliance**

Purchased from Grand View 2 West--REC Only \*\*  
 Percent of MWh Qualifying Under RCW 19.285  
 Percent of Qualifying MWh Allocated to WA  
**Eligible MWh Available for RCW 19.285 Compliance**

	2016	2017	2018	2019	2020
		18,511			
		100%			
	-	18,511	-	-	-

**Non REC Eligible Generation**

Extra Apprenticeship Credit  
 Distributed Generation Bonus  
**Total Quantity from Non REC Eligible Generation**

	2016	2017	2018	2019	2020
	-	-	-	-	-
	-	-	-	-	-
	-	-	-	-	-

**REC Sales / Transfers**

Quantity of RECs Sold  
 Bonus Incentives Transferred  
 Bonus Incentives Not Realized  
**Total Sold / Transferred / Unrealized**

	2016	2017	2018	2019	2020
	-	-	-	-	-
	-	-	-	-	-
	-	-	-	-	-
	-	-	-	-	-

**Adjustments**

2015 Surplus Applied to 2016  
 2016 Surplus Applied to 2015  
 2016 Surplus Applied to 2017  
 2017 Surplus Applied to 2016  
 2017 Surplus Applied to 2018  
 2018 Surplus Applied to 2017  
 2018 Surplus Applied to 2019  
 2019 Surplus Applied to 2018  
 2019 Surplus Applied to 2020  
 2020 Surplus Applied to 2019  
**Net Surplus Adjustments**

	2016	2017	2018	2019	2020
	-				
	-				
	-	-			
	-	-			
		-	-		
		-	-	-	
			-	-	
				-	-
				-	-
	-	-	-	-	-

**Adjustment for Events Beyond Control**

	-	-	-	-	-
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**Contribution to RCW 19.285 Compliance**

Actual Retirements for RPS Compliance

	-	18,511	-	-	-
--	---	--------	---	---	---

18,511

**Facility Name:**

**ID Solar 1 -- REC Only \*\***

\*\* REC purchase only, no generation provided with purchase

**MWh Allocated to WA Compliance**

Purchased from ID Solar 1 -- REC Only \*\*  
 Percent of MWh Qualifying Under RCW 19.285  
 Percent of Qualifying MWh Allocated to WA  
**Eligible MWh Available for RCW 19.285 Compliance**

	2016	2017	2018	2019	2020
		12,048			
		100%			
		100%			
	-	12,048	-	-	-

**Non REC Eligible Generation**

Extra Apprenticeship Credit  
 Distributed Generation Bonus  
**Total Quantity from Non REC Eligible Generation**

	2016	2017	2018	2019	2020
	-	-	-	-	-
	-	-	-	-	-
	-	-	-	-	-

**REC Sales / Transfers**

Quantity of RECs Sold  
 Bonus Incentives Transferred  
 Bonus Incentives Not Realized  
**Total Sold / Transferred / Unrealized**

	2016	2017	2018	2019	2020
	-	-	-	-	-
	-	-	-	-	-
	-	-	-	-	-
	-	-	-	-	-

**Adjustments**

2015 Surplus Applied to 2016  
 2016 Surplus Applied to 2015  
 2016 Surplus Applied to 2017  
 2017 Surplus Applied to 2016  
 2017 Surplus Applied to 2018  
 2018 Surplus Applied to 2017  
 2018 Surplus Applied to 2019  
 2019 Surplus Applied to 2018  
 2019 Surplus Applied to 2020  
 2020 Surplus Applied to 2019  
**Net Surplus Adjustments**

	2016	2017	2018	2019	2020
	-				
	-				
	-	-			
	-	-			
		-	-		
		-	-		
			-	-	
				-	-
				-	-
	-	-	-	-	-

Adjustment for Events Beyond Control

	-	-	-	-	-
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**Contribution to RCW 19.285 Compliance**

	-	12,048	-	-	-
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Actual Retirements for RPS Compliance 12,048

Facility Name:

**Condon Wind Power -- REC Only \*\***

\*\* REC purchase only, no generation provided with purchase

**MWh Allocated to WA Compliance**

Purchased from Condon Wind Power -- REC Only \*\*  
 Percent of MWh Qualifying Under RCW 19.285  
 Percent of Qualifying MWh Allocated to WA  
**Eligible MWh Available for RCW 19.285 Compliance**

	2016	2017	2018	2019	2020
		1,046			
		100%			
	-	1,046	-	-	-

**Non REC Eligible Generation**

Extra Apprenticeship Credit  
 Distributed Generation Bonus  
**Total Quantity from Non REC Eligible Generation**

	2016	2017	2018	2019	2020
	-	-	-	-	-
	-	-	-	-	-
	-	-	-	-	-

**REC Sales / Transfers**

Quantity of RECs Sold  
 Bonus Incentives Transferred  
 Bonus Incentives Not Realized  
**Total Sold / Transferred / Unrealized**

	2016	2017	2018	2019	2020
	-	-	-	-	-
	-	-	-	-	-
	-	-	-	-	-
	-	-	-	-	-

**Adjustments**

2015 Surplus Applied to 2016  
 2016 Surplus Applied to 2015  
 2016 Surplus Applied to 2017  
 2017 Surplus Applied to 2016  
 2017 Surplus Applied to 2018  
 2018 Surplus Applied to 2017  
 2018 Surplus Applied to 2019  
 2019 Surplus Applied to 2018  
 2019 Surplus Applied to 2020  
 2020 Surplus Applied to 2019  
**Net Surplus Adjustments**

	2016	2017	2018	2019	2020
	-				
	-				
	-	-			
	-	-			
		-	-		
		-	-	-	
			-	-	
				-	-
				-	-
	-	-	-	-	-

**Adjustment for Events Beyond Control**

	-	-	-	-	-
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**Contribution to RCW 19.285 Compliance**

Actual Retirements for RPS Compliance

	-	1,046	-	-	-
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1,046

**Facility Name:**

**Condon Wind Power Phase II -- REC Only \*\***

\*\* REC purchase only, no generation provided with purchase

**MWh Allocated to WA Compliance**

Purchased from Condon Wind Power Phase II -- REC Only \*\*  
 Percent of MWh Qualifying Under RCW 19.285  
 Percent of Qualifying MWh Allocated to WA  
**Eligible MWh Available for RCW 19.285 Compliance**

	2016	2017	2018	2019	2020
		1,069			
		100%			
		100%			
	-	1,069	-	-	-

**Non REC Eligible Generation**

Extra Apprenticeship Credit  
 Distributed Generation Bonus  
**Total Quantity from Non REC Eligible Generation**

	2016	2017	2018	2019	2020
	-	-	-	-	-
	-	-	-	-	-
	-	-	-	-	-

**REC Sales / Transfers**

Quantity of RECs Sold  
 Bonus Incentives Transferred  
 Bonus Incentives Not Realized  
**Total Sold / Transferred / Unrealized**

	2016	2017	2018	2019	2020
	-	-	-	-	-
	-	-	-	-	-
	-	-	-	-	-
	-	-	-	-	-

**Adjustments**

2015 Surplus Applied to 2016  
 2016 Surplus Applied to 2015  
 2016 Surplus Applied to 2017  
 2017 Surplus Applied to 2016  
 2017 Surplus Applied to 2018  
 2018 Surplus Applied to 2017  
 2018 Surplus Applied to 2019  
 2019 Surplus Applied to 2018  
 2019 Surplus Applied to 2020  
 2020 Surplus Applied to 2019  
**Net Surplus Adjustments**

	2016	2017	2018	2019	2020
	-				
	-				
	-	-			
	-	-			
		-	-		
		-	-		
			-	-	
			-	-	
				-	-
				-	-
	-	-	-	-	-

Adjustment for Events Beyond Control

	-	-	-	-	-
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**Contribution to RCW 19.285 Compliance**

Actual Retirements for RPS Compliance

	-	1,069	-	-	-
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1,069

**PUGET SOUND ENERGY 2020 RPS REPORT**  
**Compliance Contribution by Generation Type**

	2016	2017	2018	2019	2020
Wind	1,757,710	1,767,729	1,771,252	1,800,335	3,922,072
Solar	-	37,300	-	-	-
Water (Incremental Hydro)	119,024	105,188	125,494	90,356	88,091
Biomass	-	-	-	-	-
Geothermal	-	-	-	-	-
Landfill Gas	-	-	-	-	2,361
Sewage Treatment Gas	-	-	-	-	-
Wave, Ocean, Tidal	-	-	-	-	-
Biodiesel Fuel	-	-	-	-	-
	<b>1,878,751</b>	<b>1,912,234</b>	<b>1,898,764</b>	<b>1,892,710</b>	<b>4,014,544</b>

Facility Name	Facility Type	2016	2017	2018	2019	2020
Wild Horse	Wind	469,503	305,994	471,878	334,325	821,192
Hopkins Ridge	Wind	238,385	207,498	255,144	215,750	671,310
Klondike III	Wind	60,908	64,389	53,421	61,829	206,948
Wild Horse Phase II	Wind	106,432	130,423	119,242	124,154	228,347
Hopkins Ridge Phase II	Wind	14,879	10,000	15,881	8,722	33,200
Lower Snake River - Dodge Junction	Wind	505,872	600,881	496,567	609,892	1,003,069
Lower Snake River - Phalen Gulch	Wind	361,732	441,544	359,119	444,982	730,663
Wanapum Fish Bypass	Water (Incremental Hydro)	-	-	-	-	-
Baker River Project	Water (Incremental Hydro)	101,550	88,579	108,971	74,606	70,693
Snoqualmie Falls Project	Water (Incremental Hydro)	17,475	16,609	16,523	15,750	17,398
Klondike 1--REC only**	Wind	-	968	-	-	-
Stateline WA Wind--REC Only **	Wind	-	3,890	-	-	-
Horse Butte Wind--REC only **	Wind	-	27	-	-	-
Grand View 5 East--REC Only**	Solar	-	6,741	-	-	-
Grand View 2 West--REC Only **	Solar	-	18,511	-	-	-
ID Solar 1 -- REC Only **	Solar	-	12,048	-	-	-
Condon Wind Power -- REC Only **	Wind	-	1,046	-	-	-
Condon Wind Power Phase II -- REC Only **	Wind	-	1,069	-	-	-
Camp Reed Wind Park - Camp Reed Wind Park -- REC Only **	Wind	-	-	-	-	18,037
Golden Valley Wind Park - Golden Valley Wind Park -- REC Only **	Wind	-	-	-	-	8,707
Klondike III - Klondike Wind Power III LLC -- REC Only **	Wind	-	-	-	-	15,341
Meadow Creek Wind Farm - Five Pine Project -- REC Only **	Wind	-	-	-	-	25,276
Meadow Creek Wind Farm - North Point Wind Farm -- REC Only **	Wind	-	-	-	-	49,724
Mountain Air Wind Projects - Mountain Air Wind Projects -- REC Only **	Wind	-	-	-	681	-
Nine Canyon Wind Project - Nine Canyon Phase 3 -- REC Only **	Wind	-	-	-	-	3,486
Oregon Trail Wind Park, LLC - Oregon Trail Wind Park -- REC Only **	Wind	-	-	-	-	9,879
PaTu Wind Farm - PaTu Wind -- REC Only **	Wind	-	-	-	-	12,375
Roseburg LFG - Roseburg LFG Energy -- REC Only **	Landfill Gas	-	-	-	-	2,361
Salmon Falls Wind Park, LLC - Salmon Falls Wind Park -- REC Only **	Wind	-	-	-	-	17,090
Sawtooth Wind Project - Sawtooth Wind Project -- REC Only **	Wind	-	-	-	-	30,077
Thousand Springs Wind Park, LLC - Thousand Springs Wind Park -- REC Only **	Wind	-	-	-	-	8,681
Tuana Gulch Wind Park, LLC - Tuana Gulch Wind Park -- REC Only **	Wind	-	-	-	-	7,912
Tuana Springs Energy, LLC - Tuana Springs -- REC Only **	Wind	-	-	-	-	17,961

**PUGET SOUND ENERGY 2020 RPS REPORT**  
**Compliance Contribution by Generation Type**

White Creek Wind 1 - White Creek -- REC Only **	Wind	-	-	-	-	2,797
Facility 35	0	-	-	-	-	-
Facility 36	0	-	-	-	-	-
Facility 37	0	-	-	-	-	-
Facility 38	0	-	-	-	-	-
Facility 39	0	-	-	-	-	-
Facility 40	0	-	-	-	-	-
		<b>1,878,751</b>	<b>1,912,234</b>	<b>1,898,764</b>	<b>1,892,710</b>	<b>4,014,544</b>

**SHADED INFORMATION IS DESIGNATED CONFIDENTIAL PER WAC 480-07-160**

**REDACTED VERSION**

**Puget Sound Energy - 2020 RPS Report**

Attachment 4





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**PUGET SOUND ENERGY - 2020 RPS Report**  
**Deferred REC Revenue Proceeds**

A/C 25400221

Vintages 2012 through 2019

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Attachment 4

Facility	Transaction			Qty	REC	Total Qty	Total REC	
	Vintage	Mo/Yr	WREGIS #		Revenues		Revenues	
Wild Horse Phase II	2012-01WH2	May-12	W1364	11,460	XXXXXX	54,206	XXXXXX	2012 Vintage
Wild Horse Phase II	2012-07WH2	Nov-13	W1364	5,173	XXXXXX	47,386	XXXXXX	2013 Vintage
Wild Horse Phase II	2012-08WH2	Nov-13	W1364	7,555	XXXXXX	98,496	XXXXXX	2014 Vintage
Wild Horse Phase II	2012-09WH2	Nov-13	W1364	5,730	XXXXXX	10,000	XXXXXX	2015 Vintage
Wild Horse Phase II	2012-10WH2	Nov-13	W1364	8,749	XXXXXX			
Wild Horse Phase II	2012-11WH2	Nov-13	W1364	6,660	XXXXXX			
Wild Horse Phase II	2012-12WH2	Nov-13	W1364	8,879	XXXXXX			
Wild Horse Phase II	2013-07WH2	Oct-14	W1364	8,048	XXXXXX			
Wild Horse Phase II	2013-08WH2	Oct-14	W1364	4,733	XXXXXX			
Wild Horse Phase II	2013-09WH2	Oct-14	W1364	7,637	XXXXXX			
Wild Horse Phase II	2013-10WH2	Oct-14	W1364	4,582	XXXXXX			
Wild Horse Phase II	2013-10WH2	Jan-15	W1364	1,600	XXXXXX			
Wild Horse Phase II	2013-11WH2	Oct-14	W1364	7,682	XXXXXX			
Wild Horse Phase II	2013-12WH2	Oct-14	W1364	9,931	XXXXXX			
Wild Horse Phase II	2013-12WH2	Jan-15	W1364	3,173	XXXXXX			
Wild Horse Phase II	2014-01WH2	Apr-15	W1364	5,002	XXXXXX			
Wild Horse Phase II	2014-02WH2	Apr-15	W1364	7,583	XXXXXX			
Wild Horse Phase II	2014-03WH2	Apr-15	W1364	11,579	XXXXXX			
Wild Horse Phase II	2014-04WH2	Apr-15	W1364	12,732	XXXXXX			
Wild Horse Phase II	2014-05WH2	Apr-15	W1364	9,343	XXXXXX			
Wild Horse Phase II	2014-06WH2	Apr-15	W1364	8,109	XXXXXX			
Wild Horse Phase II	2014-06WH2	Aug-15	W1364	3,314	XXXXXX			
Wild Horse Phase II	2014-07WH2	Apr-15	W1364	5,008	XXXXXX			
Wild Horse Phase II	2014-08WH2	Mar-16	W1364	290	XXXXXX			
Wild Horse Phase II	2014-09WH2	Apr-15	W1364	6,626	XXXXXX			
Wild Horse Phase II	2014-09WH2	Dec-15	W1364	1,440	XXXXXX			
Wild Horse Phase II	2014-10WH2	Jan-16	W1364	7,625	XXXXXX			
Wild Horse Phase II	2014-11WH2	Jan-16	W1364	11,591	XXXXXX			
Wild Horse Phase II	2014-12WH2	Dec-15	W1364	500	XXXXXX			
Wild Horse Phase II	2014-12WH2	Dec-15	W1364	7,678	XXXXXX			
Wild Horse Phase II	2014-12WH2	Mar-16	W1364	76	XXXXXX			
Wild Horse Phase II	2015-07WH2	Mar-16	W1364	10,000	XXXXXX			

**PUGET SOUND ENERGY - 2020 RPS Report**  
**Deferred REC Revenue Proceeds**  
**A/C 25400221**

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Vintages 2012 through 2019

Facility	Transaction			Qty	REC	Total Qty	Total REC	
	Vintage	Mo/Yr	WREGIS #		Revenues		Revenues	
Hopkins Ridge Phase II	2013-07HR2	Oct-14	W1382	1,222	XXXXXX	7,309	XXXXXX	2013 Vintage
Hopkins Ridge Phase II	2013-08HR2	Oct-14	W1382	932	XXXXXX	18,641	XXXXXX	2014 Vintage
Hopkins Ridge Phase II	2013-09HR2	Oct-14	W1382	1,486	XXXXXX	1,735	XXXXXX	2015 Vintage
Hopkins Ridge Phase II	2013-10HR2	Oct-14	W1382	819	XXXXXX	9,184	XXXXXX	2016 Vintage
Hopkins Ridge Phase II	2013-11HR2	Oct-14	W1382	1,330	XXXXXX	10,171	XXXXXX	2018 Vintage
Hopkins Ridge Phase II	2013-12HR2	Oct-14	W1382	1,520	XXXXXX			
Hopkins Ridge Phase II	2014-01HR2	Oct-14	W1382	1,233	XXXXXX			
Hopkins Ridge Phase II	2014-02HR2	Oct-14	W1382	1,376	XXXXXX			
Hopkins Ridge Phase II	2014-03HR2	Oct-14	W1382	2,173	XXXXXX			
Hopkins Ridge Phase II	2014-04HR2	Oct-14	W1382	2,147	XXXXXX			
Hopkins Ridge Phase II	2014-05HR2	Oct-14	W1382	1,884	XXXXXX			
Hopkins Ridge Phase II	2014-06HR2	Oct-14	W1382	1,883	XXXXXX			
Hopkins Ridge Phase II	2014-07HR2	Jan-15	W1382	1,262	XXXXXX			
Hopkins Ridge Phase II	2014-08HR2	Jan-15	W1382	1,165	XXXXXX			
Hopkins Ridge Phase II	2014-09HR2	Jan-15	W1382	693	XXXXXX			
Hopkins Ridge Phase II	2014-09HR2	Apr-15	W1382	437	XXXXXX			
Hopkins Ridge Phase II	2014-10HR2	Apr-15	W1382	1,483	XXXXXX			
Hopkins Ridge Phase II	2014-11HR2	Apr-15	W1382	1,813	XXXXXX			
Hopkins Ridge Phase II	2014-12HR2	Apr-15	W1382	1,092	XXXXXX			
Hopkins Ridge Phase II	2015-01HR2	Apr-15	W1382	574	XXXXXX			
Hopkins Ridge Phase II	2015-02HR2	Apr-15	W1382	1,161	XXXXXX			
Hopkins Ridge Phase II	2016-07HR2	Mar-18	W1382	1,583	XXXXXX			
Hopkins Ridge Phase II	2016-08HR2	Mar-18	W1382	1,129	XXXXXX			
Hopkins Ridge Phase II	2016-09HR2	Mar-18	W1382	1,478	XXXXXX			
Hopkins Ridge Phase II	2016-10HR2	Mar-18	W1382	1,724	XXXXXX			
Hopkins Ridge Phase II	2016-11HR2	Mar-18	W1382	1,705	XXXXXX			
Hopkins Ridge Phase II	2016-12HR2	Mar-18	W1382	1,565	XXXXXX			
Hopkins Ridge Phase II	2018 - 01HR2	Mar-19	W1382	1,961	XXXXXX			
Hopkins Ridge Phase II	2018 - 07HR2	Feb-19	W1382	1,158	XXXXXX			
Hopkins Ridge Phase II	2018 - 08HR2	Feb-19	W1382	1,529	XXXXXX			
Hopkins Ridge Phase II	2018 - 09HR2	Feb-19	W1382	1,243	XXXXXX			
Hopkins Ridge Phase II	2018 - 10HR2	Feb-19	W1382	947	XXXXXX			
Hopkins Ridge Phase II	2018 - 11HR2	Jan-19	W1382	1,740	XXXXXX			
Hopkins Ridge Phase II	2018 - 12HR2	Jan-19	W1382	1,593	XXXXXX			

**PUGET SOUND ENERGY - 2020 RPS Report**  
**Deferred REC Revenue Proceeds**

A/C 25400221

Vintages 2012 through 2019

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Attachment 4

Facility	Transaction			Qty	REC	Total Qty	Total REC	
	Vintage	Mo/Yr	WREGIS #		Revenues		Revenues	
Wild Horse	2012-01WH	May-12	W183	38,143	XXXXXX	238,143	XXXXXX	2012 Vintage
Wild Horse	2012-07WH	Dec-13	W183	26,875	XXXXXX	246,192	XXXXXX	2013 Vintage
Wild Horse	2012-08WH	Dec-13	W183	39,253	XXXXXX	541,930	XXXXXX	2014 Vintage
Wild Horse	2012-09WH	Dec-13	W183	29,767	XXXXXX	43,254	XXXXXX	2015 Vintage
Wild Horse	2012-10WH	Dec-13	W183	45,454	XXXXXX	138,677	XXXXXX	2016 Vintage
Wild Horse	2012-11WH	Dec-13	W183	34,606	XXXXXX	44,385	XXXXXX	2017 Vintage
Wild Horse	2012-12WH	Dec-13	W183	24,045	XXXXXX	203,209	XXXXXX	2018 Vintage
Wild Horse	2013-07WH	Jul-14	W183	15,535	XXXXXX	172,850	XXXXXX	2019 Vintage
Wild Horse	2013-07WH	Oct-14	W183	26,280	XXXXXX			
Wild Horse	2013-08WH	Oct-14	W183	24,591	XXXXXX			
Wild Horse	2013-09WH	Oct-14	W183	39,676	XXXXXX			
Wild Horse	2013-10WH	Oct-14	W183	32,117	XXXXXX			
Wild Horse	2013-11WH	Oct-14	W183	27,336	XXXXXX			
Wild Horse	2013-11WH	Jan-15	W183	12,577	XXXXXX			
Wild Horse	2013-12WH	Jan-15	W183	25,465	XXXXXX			
Wild Horse	2013-12WH	Feb-15	W183	3,000	XXXXXX			
Wild Horse	2013-12WH	Apr-15	W183	39,615	XXXXXX			
Wild Horse	2014-01WH	Oct-14	W183	25,000	XXXXXX			
Wild Horse	2014-01WH	Nov-14	W183	991	XXXXXX			
Wild Horse	2014-02WH	Nov-14	W183	39,394	XXXXXX			
Wild Horse	2014-03WH	Nov-14	W183	60,000	XXXXXX			
Wild Horse	2014-03WH	Apr-15	W183	160	XXXXXX			
Wild Horse	2014-04WH	Nov-14	W183	66,150	XXXXXX			
Wild Horse	2014-05WH	Nov-14	W183	48,537	XXXXXX			
Wild Horse	2014-06WH	Nov-14	W183	39,928	XXXXXX			
Wild Horse	2014-06WH	Apr-15	W183	19,422	XXXXXX			
Wild Horse	2014-07WH	Apr-15	W183	26,017	XXXXXX			
Wild Horse	2014-08WH	Apr-15	W183	36,234	XXXXXX			
Wild Horse	2014-09WH	Apr-15	W183	41,907	XXXXXX			
Wild Horse	2014-10WH	Apr-15	W183	38,734	XXXXXX			
Wild Horse	2014-10WH	Dec-15	W183	882	XXXXXX			
Wild Horse	2014-11WH	Jun-15	W183	30,000	XXXXXX			
Wild Horse	2014-11WH	Jan-16	W183	24,038	XXXXXX			
Wild Horse	2014-11WH	Feb-16	W183	1,653	XXXXXX			

**PUGET SOUND ENERGY - 2020 RPS Report**  
**Deferred REC Revenue Proceeds**

A/C 25400221

Vintages 2012 through 2019

REDACTED  
VERSION

Attachment 4

Facility	Transaction			Qty	REC	Total Qty	Total REC	
	Vintage	Mo/Yr	WREGIS #		Revenues		Revenues	
Wild Horse	2014-12WH	May-15	W183	20,000	XXXXX			
Wild Horse	2014-12WH	Dec-15	W183	22,000	XXXXX			
Wild Horse	2014-12WH	Mar-16	W183	883	XXXXX			
Wild Horse	2015-07WH	Mar-17	W183	43,254	XXXXX			
Wild Horse	2016-07WH	Dec-17	W183	39,127	XXXXX			
Wild Horse	2016-07WH	Dec-17	W183	4,603	XXXXX			
Wild Horse	2016-07WH	Feb-18	W183	4,837	XXXXX			
Wild Horse	2016-08WH	Feb-18	W183	19,294	XXXXX			
Wild Horse	2016-08WH	Mar-18	W183	17,912	XXXXX			
Wild Horse	2016-09WH	Mar-18	W183	50,678	XXXXX			
Wild Horse	2016-10WH	Mar-18	W183	2,226	XXXXX			
Wild Horse	2017-07 WH	Dec-18	W183	44,385	XXXXX			
Wild Horse	2018-07WH	Feb-19	W183	33,427	XXXXX			
Wild Horse	2018-08WH	Feb-19	W183	35,505	XXXXX			
Wild Horse	2018-10WH	Sep-19	W183	30,070	XXXXX			
Wild Horse	2018-11WH	Sep-19	W183	8,348	XXXXX			
Wild Horse	2018-12WH	Sep-19	W183	16,582	XXXXX			
Wild Horse	2018-11WH	Sep-19	W183	34,892	XXXXX			
Wild Horse	2018-08WH	Dec-19	W183	8,937	XXXXX			
Wild Horse	2018-09WH	Dec-19	W183	33,659	XXXXX			
Wild Horse	2018-10WH	Dec-19	W183	1,789	XXXXX			
Wild Horse	2019-01WH	Jan-20	W183	38,920	XXXXX			
Wild Horse	2019-02WH	Jan-20	W183	35,316	XXXXX			
Wild Horse	2019-03WH	Jan-20	W183	34,133	160,425			
Wild Horse	2019-04WH	Jan-20	W183	64,385	XXXXX			
Wild Horse	2019-05WH	Jan-20	W183	96	XXXXX			
Hopkins Ridge	2012-07HR	Nov-13	W184	22,170	XXXXX	171,359	XXXXX	2012 Vintage
Hopkins Ridge	2012-08HR	Nov-13	W184	23,942	XXXXX	166,117	XXXXX	2013 Vintage
Hopkins Ridge	2012-09HR	Nov-13	W184	17,681	XXXXX	423,662	XXXXX	2014 Vintage
Hopkins Ridge	2012-10HR	Nov-13	W184	32,566	XXXXX	109,781	XXXXX	2015 Vintage
Hopkins Ridge	2012-10HR	Nov-13	W184	833	XXXXX	190,560	XXXXX	2016 Vintage
Hopkins Ridge	2012-11HR	Nov-13	W184	25,218	XXXXX	74,400	XXXXX	2017 Vintage
Hopkins Ridge	2012-12-HR	Nov-13	W184	48,949	XXXXX	176,270	XXXXX	2018 Vintage
Hopkins Ridge	2013-07HR	Aug-14	W184	27,772	XXXXX			

**PUGET SOUND ENERGY - 2020 RPS Report**  
**Deferred REC Revenue Proceeds**  
**A/C 25400221**

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VERSION

Attachment 4

Vintages 2012 through 2019

Facility	Transaction			Qty	REC	Total Qty	Total REC
	Vintage	Mo/Yr	WREGIS #		Revenues		Revenues
Hopkins Ridge	2013-08HR	Aug-14	W184	7,228	XXXXX		
Hopkins Ridge	2013-08HR	Oct-14	W184	13,962	XXXXX		
Hopkins Ridge	2013-09HR	Oct-14	W184	33,769	XXXXX		
Hopkins Ridge	2013-10HR	Oct-14	W184	18,608	XXXXX		
Hopkins Ridge	2013-11HR	Oct-14	W184	30,236	XXXXX		
Hopkins Ridge	2013-12HR	Oct-14	W184	34,542	XXXXX		
Hopkins Ridge	2014-01HR	Oct-14	W184	28,019	XXXXX		
Hopkins Ridge	2014-02HR	Oct-14	W184	31,279	XXXXX		
Hopkins Ridge	2014-03HR	Oct-14	W184	49,384	XXXXX		
Hopkins Ridge	2014-04HR	Oct-14	W184	48,790	XXXXX		
Hopkins Ridge	2014-05HR	Oct-14	W184	42,826	XXXXX		
Hopkins Ridge	2014-06HR	Oct-14	W184	42,793	XXXXX		
Hopkins Ridge	2014-07HR	Oct-14	W184	17,305	XXXXX		
Hopkins Ridge	2014-07HR	Jan-15	W184	11,371	XXXXX		
Hopkins Ridge	2014-08HR	Oct-14	W184	5,970	XXXXX		
Hopkins Ridge	2014-08HR	Jan-15	W184	20,509	XXXXX		
Hopkins Ridge	2014-09HR	Apr-15	W184	25,682	XXXXX		
Hopkins Ridge	2014-10HR	Apr-15	W184	33,693	XXXXX		
Hopkins Ridge	2014-11HR	Apr-15	W184	41,204	XXXXX		
Hopkins Ridge	2014-12HR	Apr-15	W184	24,837	XXXXX		
Hopkins Ridge	2015-01HR	Apr-15	W184	13,037	XXXXX		
Hopkins Ridge	2015-02HR	Apr-15	W184	22,496	XXXXX		
Hopkins Ridge	2015-07HR	Mar-17	W184	33,651	XXXXX		
Hopkins Ridge	2015-08HR	Mar-17	W184	32,313	XXXXX		
Hopkins Ridge	2015-09HR	Mar-17	W184	8,284	XXXXX		
Hopkins Ridge	2016-07HR	Nov-17	W184	32,841	XXXXX		
Hopkins Ridge	2016-08HR	Nov-17	W184	23,440	XXXXX		
Hopkins Ridge	2016-09HR	Nov-17	W184	30,662	XXXXX		
Hopkins Ridge	2016-10HR	Nov-17	W184	35,770	XXXXX		
Hopkins Ridge	2016-11HR	Nov-17	W184	14,438	XXXXX		
Hopkins Ridge	2016-11HR	Feb-18	W184	20,940	XXXXX		
Hopkins Ridge	2016-12HR	Feb-18	W184	32,469	XXXXX		
Hopkins Ridge	2017-07HR	Oct-18	W184	25,526	XXXXX		
Hopkins Ridge	2017-08HR	Oct-18	W184	19,992	XXXXX		

**PUGET SOUND ENERGY - 2020 RPS Report**  
**Deferred REC Revenue Proceeds**  
**A/C 25400221**

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VERSION

Attachment 4

Vintages 2012 through 2019

Facility	Transaction			Qty	REC	Total Qty	Total REC	
	Vintage	Mo/Yr	WREGIS #		Revenues		Revenues	
Hopkins Ridge	2017-09HR	Oct-18	W184	22,694	XXXXX			
Hopkins Ridge	2017-10HR	Oct-18	W184	6,188	XXXXX			
Hopkins Ridge	2018 - 11HR	Jan-19	W184	36,121	XXXXX			
Hopkins Ridge	2018 - 12HR	Jan-19	W184	27,937	XXXXX			
Hopkins Ridge	2018 - 07HR	Feb-19	W184	24,033	XXXXX			
Hopkins Ridge	2018 - 08HR	Feb-19	W184	31,728	XXXXX			
Hopkins Ridge	2018 - 09HR	Feb-19	W184	6,557	XXXXX			
Hopkins Ridge	2018 - 09HR	Feb-19	W184	19,239	XXXXX			
Hopkins Ridge	2018 - 10HR	Feb-19	W184	19,634	XXXXX			
Hopkins Ridge	2018 - 01HR	Mar-19	W184	5,913	XXXXX			
Hopkins Ridge	2018-12HR	Sep-19	W184	5,108	XXXXX			
Klondike III	2012-07K3	Oct-13	W237	16,041	XXXXX	58,264	XXXXX	2012 Vintage
Klondike III	2012-08K3	Oct-13	W237	14,164	XXXXX	68,465	XXXXX	2013 Vintage
Klondike III	2012-09K3	Oct-13	W237	9,214	XXXXX	133,571	XXXXX	2014 Vintage
Klondike III	2012-10K3	Oct-13	W237	6,499	XXXXX	60,697	XXXXX	2015 Vintage
Klondike III	2012-11K3	Oct-13	W237	4,082	XXXXX	62,849	XXXXX	2016 Vintage
Klondike III	2012-11K3	Nov-13	W237	101	XXXXX	57,197	XXXXX	2017 Vintage
Klondike III	2012-12K3	Nov-13	W237	3,641	XXXXX	57,609	XXXXX	2018 Vintage
Klondike III	2012-12K3	Nov-13	W237	4,522	XXXXX	24,620	XXXXX	2019 Vintage
Klondike III	2013-01K3	Mar-14	W237	4,000	XXXXX			
Klondike III	2013-07K3	Jul-14	W237	18,439	XXXXX			
Klondike III	2013-08K3	Jul-14	W237	12,249	XXXXX			
Klondike III	2013-09K3	Jul-14	W237	10,448	XXXXX			
Klondike III	2013-10K3	Jul-14	W237	5,856	XXXXX			
Klondike III	2013-11K3	Jul-14	W237	7,926	XXXXX			
Klondike III	2013-12K3	Jul-14	W237	9,547	XXXXX			
Klondike III	2014-01K3	Aug-14	W237	6,730	XXXXX			
Klondike III	2014-02K3	Aug-14	W237	8,102	XXXXX			
Klondike III	2014-03K3	Aug-14	W237	9,982	XXXXX			
Klondike III	2014-04K3	Aug-14	W237	10,186	XXXXX			
Klondike III	2014-04K3	Oct-14	W237	2,256	XXXXX			
Klondike III	2014-05K3	Oct-14	W237	2,957	XXXXX			
Klondike III	2014-05K3	Jan-15	W237	11,854	XXXXX			
Klondike III	2014-06K3	Jan-15	W237	13,146	XXXXX			

**PUGET SOUND ENERGY - 2020 RPS Report**  
**Deferred REC Revenue Proceeds**  
**A/C 25400221**

**REDACTED**  
**VERSION**

Attachment 4

Vintages 2012 through 2019

Facility	Transaction			Qty	REC	Total Qty	Total REC
	Vintage	Mo/Yr	WREGIS #		Revenues		Revenues
Klondike III	2014-06K3	Apr-15	W237	6,455	XXXXXX		
Klondike III	2014-07K3	Oct-14	W237	14,575	XXXXXX		
Klondike III	2014-08K3	Oct-14	W237	13,120	XXXXXX		
Klondike III	2014-09K3	Apr-15	W237	10,070	XXXXXX		
Klondike III	2014-10K3	Apr-15	W237	6,107	XXXXXX		
Klondike III	2014-11K3	Apr-15	W237	10,298	XXXXXX		
Klondike III	2014-12K3	Apr-15	W237	7,733	XXXXXX		
Klondike III	2015-01K3	Jun-15	W237	3,410	XXXXXX		
Klondike III	2015-02K3	Jun-15	W237	6,590	XXXXXX		
Klondike III	2015-02K3	Aug-15	W237	1,516	XXXXXX		
Klondike III	2015-03K3	Aug-15	W237	6,429	XXXXXX		
Klondike III	2015-07K3	Feb-17	W237	17,267	XXXXXX		
Klondike III	2015-08K3	Feb-17	W237	10,233	XXXXXX		
Klondike III	2015-08K3	Mar-17	W237	4,674	XXXXXX		
Klondike III	2015-09K3	Mar-17	W237	10,578	XXXXXX		
Klondike III	2016-07K3	Nov-17	W237	17,398	XXXXXX		
Klondike III	2016-08K3	Nov-17	W237	13,079	XXXXXX		
Klondike III	2016-09K3	Nov-17	W237	12,312	XXXXXX		
Klondike III	2016-10K3	Nov-17	W237	6,457	XXXXXX		
Klondike III	2016-11K3	Nov-17	W237	5,775	XXXXXX		
Klondike III	2016-12K3	Nov-17	W237	7,828	XXXXXX		
Klondike III	2017-07K3	Jul-18	W237	17,830	XXXXXX		
Klondike III	2017-08K3	Jul-18	W237	11,863	XXXXXX		
Klondike III	2017-09K3	Jul-18	W237	7,147	XXXXXX		
Klondike III	2017-10K3	Jul-18	W237	9,254	XXXXXX		
Klondike III	2017-11K3	Jul-18	W237	6,026	XXXXXX		
Klondike III	2017-12K3	Jul-18	W237	5,077	XXXXXX		
Klondike III	2018 - 07K3	Jan-19	W237	14,947	XXXXXX		
Klondike III	2018 - 08K3	Jan-19	W237	14,527	XXXXXX		
Klondike III	2018 - 09K3	Jan-19	W237	10,066	XXXXXX		
Klondike III	2018 - 10K3	Jan-19	W237	4,524	XXXXXX		
Klondike III	2018 - 11K3	Jan-19	W237	6,974	XXXXXX		
Klondike III	2018 - 12K3	Jan-19	W237	6,571	XXXXXX		
Klondike III	2019 - 01K3	Jan-20	W237	4,116	XXXXXX		

**PUGET SOUND ENERGY - 2020 RPS Report**  
**Deferred REC Revenue Proceeds**  
**A/C 25400221**

REDACTED  
VERSION

Attachment 4

Vintages 2012 through 2019

Facility	Transaction			Qty	REC	Total Qty	Total REC	
	Vintage	Mo/Yr	WREGIS #		Revenues		Revenues	
Klondike III	2019 - 02K3	Jan-20	W237	4,115	XXXXX			
Klondike III	2019 - 03K3	Jan-20	W237	3,860	XXXXX			
Klondike III	2019 - 04K3	Jan-20	W237	11,922	XXXXX			
Klondike III	2019 - 05K3	Jan-20	W237	607	XXXXX			
Lower Snake River-Dodge Junction	2013-07DJ	Oct-14	W2669	32,666	XXXXX	201,751	XXXXX	2013 Vintage
Lower Snake River-Dodge Junction	2013-08DJ	Oct-14	W2669	26,144	XXXXX	230,247	XXXXX	2014 Vintage
Lower Snake River-Dodge Junction	2013-09DJ	Oct-14	W2669	43,424	XXXXX			
Lower Snake River-Dodge Junction	2013-10DJ	Oct-14	W2669	22,926	XXXXX			
Lower Snake River-Dodge Junction	2013-11DJ	Oct-14	W2669	37,127	XXXXX			
Lower Snake River-Dodge Junction	2013-12DJ	Oct-14	W2669	39,464	XXXXX			
Lower Snake River-Dodge Junction	2014-07DJ	Oct-14	W2669	38,161	XXXXX			
Lower Snake River-Dodge Junction	2014-08DJ	Oct-14	W2669	30,132	XXXXX			
Lower Snake River-Dodge Junction	2014-09DJ	Apr-15	W2669	34,897	XXXXX			
Lower Snake River-Dodge Junction	2014-10DJ	Apr-15	W2669	40,553	XXXXX			
Lower Snake River-Dodge Junction	2014-11DJ	Apr-15	W2669	50,548	XXXXX			
Lower Snake River-Dodge Junction	2014-12DJ	Apr-15	W2669	35,956	XXXXX			
Lower Snake River-Phalen Gulch	2013-07PG	Oct-14	W2670	22,993	17,245	142,210	XXXXX	2013 Vintage
Lower Snake River-Phalen Gulch	2013-08PG	Oct-14	W2670	18,193	XXXXX	169,808	XXXXX	2014 Vintage
Lower Snake River-Phalen Gulch	2013-09PG	Oct-14	W2670	13,056	XXXXX	12,732	XXXXX	2015 Vintage
Lower Snake River-Phalen Gulch	2013-09PG	Oct-14	W2670	19,776	XXXXX			
Lower Snake River-Phalen Gulch	2013-10PG	Oct-14	W2670	16,782	XXXXX			
Lower Snake River-Phalen Gulch	2013-11PG	Oct-14	W2670	27,555	XXXXX			
Lower Snake River-Phalen Gulch	2013-12PG	Oct-14	W2670	23,855	XXXXX			
Lower Snake River-Phalen Gulch	2014-07PG	Oct-14	W2670	28,789	XXXXX			
Lower Snake River-Phalen Gulch	2014-08PG	Oct-14	W2670	21,948	XXXXX			
Lower Snake River-Phalen Gulch	2014-09PG	Apr-15	W2670	26,547	XXXXX			
Lower Snake River-Phalen Gulch	2014-10PG	Apr-15	W2670	30,269	XXXXX			
Lower Snake River-Phalen Gulch	2014-11PG	Apr-15	W2670	37,582	XXXXX			
Lower Snake River-Phalen Gulch	2014-12PG	Apr-15	W2670	24,673	XXXXX			
Lower Snake River-Phalen Gulch	2015-01PG	Apr-15	W2670	12,732	XXXXX			
<b>GRAND TOTAL</b>				<b>4,477,937</b>	<b>XXXXX</b>	<b>-</b>	<b>XXXXX</b>	



**SHADED INFORMATION IS DESIGNATED CONFIDENTIAL PER WAC 480-07-160**

**REDACTED VERSION**



## 2020 Estimated Data: Annual Calculation of Revenue Requirement Ratio

480-109-210(2)(a)(ii) Utility must annually calculate its revenue requirement ratio for 1) All Resources 2) Required Resources Target Year	
Formula <b>Annual Calculation</b> of Incremental Cost (Revenue Requirement Ratio):	REDACTED VERSION
1) Total Incremental Cost All* Resources: $\frac{\{\text{sum of incremental costs of All* eligible resources} + \text{cost of unbundled RECs}\} - [\text{revenue RECs}]}{\text{annual revenue requirement}}$ <i>*required because of excess generation, Avista needs to report 2 incremental costs</i>	
2) Total Incremental Cost Required Resources for Target Year: $\frac{\{\text{sum of incremental costs of Target Year* eligible resources used for target year compliance} + \text{cost of unbundled RECs}\} - [\text{revenue RECs}]}{\text{annual revenue requirement}}$	

Resource--Washington Only	ALL AVAILABLE RESOURCES ESTIMATED			TARGET YEAR: FORECAST SUBJECT TO CHANGE		
	sum of incremental costs of all eligible resources	RECs purchased	Revenue from REC sales/Note 1	sum of incremental costs of all eligible resources	RECs purchased	Revenue from REC sales/Note 1
Baker River Project - Lower Baker Unit 3	(690,000)			(690,000)		
Snoqualmie Falls - Snoqualmie Falls Units 1-4	670,000			670,000		
Wild Horse - Wild Horse	5,200,000			5,200,000		XXXXX
Hopkins Ridge - Hopkins Ridge	(2,200,000)			(2,200,000)		
Wild Horse - Wild Horse - Phase II	4,130,000			4,130,000		
Hopkins Ridge - Hopkins Ridge Phase II	(80,000)			(80,000)		
Lower Snake River - Dodge Junction - LSR-Dodge	11,370,000			11,370,000		
Lower Snake River - Phalen Gulch - LSR-Phalen	9,050,000			9,050,000		
Klondike III - Klondike Wind Power III LLC	360,000			360,000		XXXXX
Various REC Purchases - Note 4					671,857	0
	0			0		
	0			0		
	0			0		0
<b>Total</b>	<b>27,810,000</b>	<b>0</b>	<b>0</b>	<b>27,810,000</b>	<b>671,857</b>	<b>(837,015)</b>
<b>Total WA Only Resources</b>	<b>27,810,000</b>	<b>0</b>	<b>0</b>	<b>27,810,000</b>	<b>671,857</b>	<b>(837,015)</b>

	0	0	0	0	0
<b>Total WA Share of Costs</b>	<b>27,810,000</b>	<b>0</b>	<b>0</b>	<b>27,810,000</b>	<b>671,857 (837,015)</b>

Annual Revenue Requirement (most recent rate case) (Note 3)	1,996,287,283	1,996,287,283
CALCULATION 1 (Note 2):	29,134,145	CALCULATION 2 (Note 2): 28,961,124
	1.459%	1.451%

**NOTES**

- Note 1: Includes only benefit of Vintage 2019 REC sales. Benefit of REC sales for Vintage 2012 through 2019 were considered and included in original one time calculation of incremental costs, therefore it would not be appropriate to include again in annual costs. Additionally, no vintage 2020 RECS sold to date.
- Note 2: To calculate revenue requirements all costs/revenues are multiplied by 1.047614 to account for Washington's share Excise Tax, Uncollectibles and Commission Fees.
- Note 3: Figure reflects Revenue Requirement from PSE's 2017 General Rate Case, after adjusting for Tax Cuts and Job Acts ("Tax Reform") updates approved by the Commission in Docket UE-18028 Electric Revenue Requirement as originally approved in UE-170033 was \$2,069,159,344. Utilizing the pre-tax reform revenue requirement results in a 1.408% revenue requirement ratio.
- Note 4: Purchased RECs are part of PSE's REC optimization strategy in order to reduce customer costs associated with RPS compliance.  
 PSE sold portion of PNW wind RECs at a premium and purchased lower costing I-937 compliant RECs. These savings are provided to customers through PSE's REC tracker.

**(iii)(A) & (B) Annual Reporting Summary Data: 2020**

Utility must (A) report its total incremental cost as a dollar amount and in dollars per megawatt-hour of renewable energy generated by all eligible renewable resources in the calculation (a)(i) of this subsection; and (B) multiply the dollars per megawatt-hour cost calculated in (a)(iii)(A) of this subsection by the number of megawatt-hours needed for target year compliance.

Resource	(A)			(B)	
	Total Incremental Cost (as dollar \$ amt.)	MWh	Total Incremental Cost (\$/MWh)	Number of Megawatt-hours Needed for Target Year Compliance	Total Incremental Cost (\$/MWh) Multiplied by Number of Megawatt-hours Needed for Target Year Compliance
Baker River Project - Lower Baker Unit 3	(690,000)	109,500	\$ (6.30)	70,693	(445,463)
Snoqualmie Falls - Snoqualmie Falls Units 1-4	670,000	34,164	\$ 19.61	17,398	341,197
Wild Horse - Wild Horse	5,200,000	642,984	\$ 8.09	343,366	2,776,901
Hopkins Ridge - Hopkins Ridge	(2,200,000)	466,908	\$ (4.71)	324,844	(1,530,616)
Wild Horse - Wild Horse - Phase II ** (Vintages 2019 & 2020)	4,130,000	91,980	\$ 44.90	190,289	8,544,179
Hopkins Ridge - Hopkins Ridge Phase II (Vintages 2019 & 2020)	(80,000)	21,024	\$ (3.81)	33,200	(126,332)
Lower Snake River - Dodge Junction - LSR-Dodge Junction** (Vintages 2019 & 2020)	11,370,000	500,172	\$ 22.73	835,891	19,001,625
Lower Snake River - Phalen Gulch - LSR-Phalen Gulch** (Vintages 2019 & 2020)	9,050,000	397,728	\$ 22.75	608,886	13,854,741
Klondike III - Klondike Wind Power III LLC (Vintages 2019 & 2020)	360,000	157,680	\$ 2.28	133,498	304,790
Varioius REC Purchases (Note 1)			\$ 2.92	229,704	671,857
REC Sales					(837,015)
Apprenticeship Credits for Eligible Resources				327,014	-
<b>Total Renewable Portfolio</b>	<b>27,810,000</b>	<b>2,422,140</b>	<b>\$ 11.48</b>	<b>3,114,783</b>	<b>42,555,865</b>

13.66

\*\*Note--These facilities qualify for apprenticeship credits therefore requiring less MWh for compliance

(Avg cost/MWH for resources used)

Note 1: Purchased RECs are part of PSE's REC optimization strategy in order to reduce customer costs associated with RPS compliance. PSE sold portion of PNW wind RECs at a premium and purchased lower costing I-937 compliant RECs. These savings are provided to customers through PSE's REC tracker.

SHADDED INFORMATION IS DESIGNATED CONFIDENTIAL PER WAC 480-07-160

	Cost/REC	RECs	Total Cost
	XXXXX	XXXXX	XXXXX
	XXXXX	XXXXX	XXXXX
	XXXXX	XXXXX	XXXXX
Total Wind REC Purchases		227,343	\$ 665,246.40
Total Bio-Gas REC Purchases	XXXXX	2,361	XXXXX
Total REC Purchases		229,704	\$ 671,857.20

**Deadline:** June 1, 2020

**Submission:** Email this workbook and all supporting documentation to [EIA@commerce.wa.gov](mailto:EIA@commerce.wa.gov)

**Questions:** Glenn Blackmon, State Energy Office, (360) 339-5619, [glenn.blackmon@commerce.wa.gov](mailto:glenn.blackmon@commerce.wa.gov)

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Do not modify blue-shaded fields.

#### **RCW 19.285.070**

##### **Reporting and public disclosure.**

(1) On or before June 1, 2012, and annually thereafter, each qualifying utility shall report to the department on its progress in the preceding year in meeting the targets established in RCW 19.285.040, including expected electricity savings from the biennial conservation target, expenditures on conservation, actual electricity savings results, the utility's annual load for the prior two years, the amount of megawatt-hours needed to meet the annual renewable energy target, the amount of megawatt-hours of each type of eligible renewable resource acquired, the type and amount of renewable energy credits acquired, and the percent of its total annual retail revenue requirement invested in the incremental cost of eligible renewable resources and the cost of renewable energy credits. For each year that a qualifying utility elects to demonstrate alternative compliance under RCW 19.285.040(2) (d) or (i) or 19.285.050(1), it must include in its annual report relevant data to demonstrate that it met the criteria in that section. A qualifying utility may submit its report to the department in conjunction with its annual obligations in chapter 19.29A RCW.

(2) A qualifying utility that is an investor-owned utility shall also report all information required in subsection (1) of this section to the commission, and all other qualifying utilities shall also make all information required in subsection (1) of this section available to the auditor.

(3) A qualifying utility shall also make reports required in this section available to its customers.

#### **WAC 194-37-060**

##### **Conservation reporting requirements.**

<Conservation targets and achievement are reported in a separate worksheet.>

#### **WAC 194-37-110**

##### **Renewable resource energy reporting.**

Each utility must submit a renewable resource energy report to the department by June 1st of each year using a form provided by the department. The report must reflect the actions that the utility took by the previous January 1st to meet the renewable requirements of chapter [19.285](#) RCW for that year. For example, a utility must report by June 1, 2015, the actions it took by January 1, 2015, to meet requirements applicable to the 2015 target year.

(1) **Reporting requirements applicable to all utilities.** Each utility must report the following information:

(a) The compliance method:

- (i) Renewable energy target using renewable resources and RECs – RCW [19.285.040](#) (2)(a);
- (ii) Incremental cost – RCW [19.285.050](#); or
- (iii) No-growth cost – RCW [19.285.040](#) (2)(d).

(b) The utility's load for the two years preceding the target year and the average load for those two years.

(c) The utility's renewable energy target for the target year.

(d) The amount of eligible renewable resources, RECs, and multiplier credits to be applied toward the utility's renewable energy target for the target year. The report must identify, by generating facility or hydroelectric project, including the WREGIS generating unit identification where applicable, and, in the case of RECs, by vintage year:

(i) The eligible renewable resources in megawatt-hours to be applied toward the renewable energy target for the target year;

(ii) The RECs to be applied toward the renewable energy target for the target year;

(iii) Any additional credit for eligible renewable resources or RECs from generating facilities eligible for the apprentice labor provision in RCW [19.285.040](#) (2)(h), applied toward the renewable energy target for the target year;

(iv) Any additional credit for RECs from generating facilities eligible for the distributed generation in RCW [19.285.040](#) (2)(b), applied toward the renewable energy target for the target year.

(e) The percent of its total annual retail revenue requirement invested in the incremental cost of eligible renewable resources and the cost of renewable energy credits. Each utility must include in its report documentation of the calculations and inputs to this amount.

(2) **Incremental cost compliance method report.** Each utility reporting pursuant to subsection (1)(a) of this section its use of the incremental cost compliance method for the target year must include the following information in its report:

(a) Annual revenue requirement for the target year;

(b) The annual levelized delivered cost of its eligible renewable resource(s) reported separately for each resource;

(c) The annual levelized delivered cost of its substitute resources and the eligible renewable resource with which it is being compared;

(d) The total cost of renewable energy credits to be applied in the reporting year;

(e) The percentage of its annual revenue requirement invested in the incremental cost of eligible renewable resources and the cost of RECs; and

(f) The most current information required by WAC [194-37-160](#) used for this financial demonstration.

(3) **No-growth cost compliance method report.** Each utility reporting pursuant to subsection (1)(a) of this section its use of the no-growth cost compliance method for the target year must include the following information in its report:

(a) Annual revenue requirement for the target year;

(b) Actual and weather-adjusted load for each year used in determining that the utility's load did not increase;

(c) Delivered cost of its eligible renewable resource(s), RECs or a combination of both for the target year to be applied to the one percent of annual revenue requirement, reported separately for each resource;

(d) Generating facility identification, vintage, quantity and cost of any RECs to be retired as an offset for nonrenewable resource purchases pursuant to RCW [19.285.040](#) (2)(d).

(4) **Final compliance report.** A utility must submit a final renewable compliance report by the later of (a) two years after the filing of the report required in subsections (1) through (3) of this section; or (b) ninety days after the issuance of the auditor's report for the target year. The final renewable compliance report must provide an update of any revisions to the information previously reported pursuant to this section or, if no revisions were made, notify the department that the initial report should be considered the final report. For any target year that a utility demonstrates to the auditor that it did not meet the annual renewable resource requirements in chapter [19.285](#) RCW due to events beyond the reasonable control of the utility per RCW

## RENEWABLE ENERGY WORKSHEET – REVISIONS TO 2018 REPORT

In addition to submitting the 2020 report, each qualifying utility should review the renewable energy report it submitted in 2018. In many cases, the specific resources and quantities actually used to comply with the 2018 target differ from what the utility reported in June 2018. Utilities should submit a revised 2018 report if the actual values differ from the values reported in 2018.

**WAC 194-37-110(4): Final compliance report.** A utility must submit a final renewable compliance report by the later of (a) two years after the filing of the report required in subsections (1) through (3) of this section; or (b) ninety days after the issuance of the auditor's report for the target year. The final renewable compliance report must provide an update of any revisions to the information previously reported pursuant to this section or, if no revisions were made, notify the department that the initial report should be considered the final report.

Please use the 2018 template and mark it as "revised." Contact Commerce to obtain a copy of the 2018 reporting template if necessary.



Energy Independence Act (EIA) Renewable Energy Report 2020

<b>Utility</b>	<b>Puget Sound Energy</b>
Report Date	June 1, 2020
Utility Contact Name/Dept	Chris Schaefer / Regulatory Affairs
Phone	425-456-2932
Email	<a href="mailto:chris.schaefer@pse.com">chris.schaefer@pse.com</a>

Loads and Resources	
2018 Annual Load (MWh)	20,697,195
2019 Annual Load (MWh)	20,833,230
Average of 2018 & 2019 Annual Loads (MWh)	20,765,213
2020 Renewable Target (% of load)	15%
2020 Eligible Renewable Energy Target (MWh)	3,114,782
2020 Eligible Renewable Resources and RECs	3,114,782

**2020 Compliance Method:**

- RPS Target [RCW 19.285.040(2)(a)]
- Resource Cost [RCW 19.285.050]
- No Load Growth [RCW 19.285.040(2)(d)]

Expenditures on Renewable Resources and RECs - 2020	
Amount invested in incremental cost of eligible renewable resources and the cost of RECs	\$27,810,000
Total annual retail revenue requirement - 2020	
Investment in renewables and RECs as a percent of retail revenue requirement	

	Water	Wind	Solar	Geothermal	Landfill Gas	Wave, Ocean, Tidal	Gas from Sewage Treatment	Biodiesel	Biomass	Qualified Biomass (pre-1999)	Apprentice Labor Credit	Distributed Generation Credit
Eligible Renewable Resources (MWh)	88,091	-	-	-	-	-	-	-	-	-	-	-
Renewable Energy Credits	-	2,697,317	-	-	2,361	-	-	-	-	-	327,013	-
Total Renewables (MWh+RECs)	88,091	2,697,317	-	-	2,361	-	-	-	-	-	327,013	-

**2020 Reporting Year:**

This renewable energy report summarizes the eligible renewables resources and renewable energy credits (RECs) that the utility has acquired by January 1, 2020 for the purpose of meeting its Energy Independence Act (EIA) renewables target for 2020. The actual resources and RECs used to comply with the 2020 EIA target may vary from those reported here. Utilities will report in June of 2022 on the actual results for 2020.

**Compliance Methods:**

The EIA provides three compliance methods for utilities:

- Meet the renewable energy target using any combination of renewable resources and RECs. The target for 2020 is 15% of the utility's load.
- Invest at least 4% of the utility's annual revenue requirement in the incremental cost of renewable resources and RECs.
- Invest at least 1% of its annual revenue requirement in renewable resources and RECs. This option is available only to certain utilities that are not growing.

All utilities must report the renewable resources and RECs acquired for the 2020 target year. Utilities that elect to use a compliance method based on renewable investments must provide additional information demonstrating compliance with that method. Refer to WAC 194-37-110(2) and (3) for specific requirements.

*NOTE: This is a general explanation of the renewable energy requirements of the Energy Independence Act, intended to help members of the public understand the information reported by the utility. Consult Chapter 19.285 RCW and Chapter 194-37 WAC for details.*



**Renewable Energy Credits**

Utility **Puget Sound Energy**  
Compliance Year **2020**

WREGIS ID	Facility Name	REC Vintage (Year)	Resource Type	Apprentice Labor Eligibility	Distributed Generation Eligibility	Quantity RECs	Apprentice Labor Amount MWh equiv.	Distributed Generation Amount MWh equiv.	Explanatory Notes (as needed)
W183	Wild Horse - Wild Horse	2019	Wind	No	No	343,366	-	-	Quantity reflects planned RPS Compliance Usage Only
W184	Hopkins Ridge - Hopkins Ridge	2019	Wind	No	No	324,844	-	-	Quantity reflects planned RPS Compliance Usage Only
W1364	Wild Horse - Wild Horse - Phase II	2019	Wind	Yes	No	99,359	19,872	-	Quantity reflects planned RPS Compliance Usage Only
W1382	Hopkins Ridge - Hopkins Ridge Phase II	2019	Wind	No	No	15,655	-	-	Quantity reflects planned RPS Compliance Usage Only
W2669	Lower Snake River - Dodge Junction - LSR-Dodge Junction	2019	Wind	Yes	No	412,098	82,420	-	Quantity reflects planned RPS Compliance Usage Only
W2670	Lower Snake River - Phalen Gulch - LSR-Phalen Gulch	2019	Wind	Yes	No	298,679	59,736	-	Quantity reflects planned RPS Compliance Usage Only
W237	Klondike III - Klondike Wind Power III LLC	2019	Wind	No	No	93,031	-	-	Quantity reflects planned RPS Compliance Usage Only
W1875	Camp Reed Wind Park - Camp Reed Wind Park	2019	Wind	No	No	18,037	-	-	Quantity reflects planned RPS Compliance Usage Only
W1862	Golden Valley Wind Park - Golden Valley Wind Park	2019	Wind	No	No	8,707	-	-	Quantity reflects planned RPS Compliance Usage Only
W237	Klondike III - Klondike Wind Power III LLC	2019	Wind	No	No	15,341	-	-	Quantity reflects planned RPS Compliance Usage Only
W3186	Meadow Creek Wind Farm - Five Pine Project	2019	Wind	No	No	25,276	-	-	Quantity reflects planned RPS Compliance Usage Only
W3185	Meadow Creek Wind Farm - North Point Wind Farm	2019	Wind	No	No	49,724	-	-	Quantity reflects planned RPS Compliance Usage Only
W697	Nine Canyon Wind Project - Nine Canyon Phase 3	2019	Wind	No	No	3,486	-	-	Quantity reflects planned RPS Compliance Usage Only
W1882	Oregon Trail Wind Park, LLC - Oregon Trail Wind Park	2019	Wind	No	No	9,879	-	-	Quantity reflects planned RPS Compliance Usage Only
W1844	PaTu Wind Farm - PaTu Wind	2019	Wind	No	No	12,375	-	-	Quantity reflects planned RPS Compliance Usage Only
W2616	Roseburg LFG - Roseburg LFG Energy	2019	Landfill Gas	No	No	2,361	-	-	Quantity reflects planned RPS Compliance Usage Only
W1885	Salmon Falls Wind Park, LLC - Salmon Falls Wind Park	2019	Wind	No	No	17,090	-	-	Quantity reflects planned RPS Compliance Usage Only
W2323	Sawtooth Wind Project - Sawtooth Wind Project	2019	Wind	No	No	30,077	-	-	Quantity reflects planned RPS Compliance Usage Only
W1881	Thousand Springs Wind Park, LLC - Thousand Springs Wind Park	2019	Wind	No	No	8,681	-	-	Quantity reflects planned RPS Compliance Usage Only
W1883	Tuana Gulch Wind Park, LLC - Tuana Gulch Wind Park	2019	Wind	No	No	7,912	-	-	Quantity reflects planned RPS Compliance Usage Only
W1503	Tuana Springs Energy, LLC - Tuana Springs	2019	Wind	No	No	17,961	-	-	Quantity reflects planned RPS Compliance Usage Only
W360	White Creek Wind 1 - White Creek	2019	Wind	No	No	2,797	-	-	Quantity reflects planned RPS Compliance Usage Only
W2670	Lower Snake River - Phalen Gulch - LSR-Phalen Gulch	2020	Wind	Yes	No	310,207	62,041	-	Quantity reflects planned RPS Compliance Usage Only
W1364	Wild Horse - Wild Horse - Phase II	2020	Wind	Yes	No	90,930	18,186	-	Quantity reflects planned RPS Compliance Usage Only
W2669	Lower Snake River - Dodge Junction - LSR-Dodge Junction	2020	Wind	Yes	No	423,793	84,759	-	Quantity reflects planned RPS Compliance Usage Only
W237	Klondike III - Klondike Wind Power III LLC	2020	Wind	No	No	40,467	-	-	Quantity reflects planned RPS Compliance Usage Only
W1382	Hopkins Ridge - Hopkins Ridge Phase II	2020	Wind	No	No	17,545	-	-	Quantity reflects planned RPS Compliance Usage Only

Utility **Puget Sound Energy**  
Compliance Year **2020**

**Other notes and explanations:**

Please note actual resources and RECs used to comply with the 2020 EIA Target may vary from those reported here. PSE will report in June of 2022 on the actual results for 2020.

Energy Independence Act (EIA) Incremental Cost and REC Cost Report 2020

**Incremental Cost of Renewable Resources**

Utility	<b>Puget Sound Energy</b>
Compliance Year	<b>2020</b>

Facility Name	WREGIS ID	MWh	Renewable Resource Annual Cost in 2020	Renewable Resource Cost per MWh	Description of Substitute Resource	Substitute Resource Annual Cost in 2020	Substitute Resource Cost per MWh	Incremental Cost of Renewable Resource in 2020
Baker River Project - Lower Baker Unit	W4865	109,500	\$8,600,000	79	Long Term PPA	\$9,290,000	85	-\$690,000
Snoqualmie Falls - Snoqualmie Falls Units	W4866	34,164	\$3,850,000	113	Long Term PPA	\$3,180,000	93	\$670,000
Wild Horse - Wild Horse	W183	642,984	\$34,940,000	54	Peaker + LT Mkt Purchase	\$29,740,000	46	\$5,200,000
Hopkins Ridge - Hopkins Ridge	W184	466,908	\$18,770,000	40	Peaker + LT Mkt Purchase	\$20,970,000	45	-\$2,200,000
Wild Horse - Wild Horse - Phase II	W1364	91,980	\$10,030,000	109	Peaker + LT Mkt Purchase	\$5,900,000	64	\$4,130,000
Hopkins Ridge - Hopkins Ridge Phase	W1382	21,024	\$1,280,000	61	Peaker + LT Mkt Purchase	\$1,360,000	65	-\$80,000
Lower Snake River - Dodge Junction	W2669	500,172	\$39,330,000	79	Peaker + LT Mkt Purchase	\$27,960,000	56	\$11,370,000
Lower Snake River - Phalen Gulch - L	W2670	397,728	\$31,280,000	79	Peaker + LT Mkt Purchase	\$22,230,000	56	\$9,050,000
Klondike III - Klondike Wind Power III	W237	157,680	\$10,270,000	65	Peaker + LT Mkt Purchase	\$9,910,000	63	\$360,000
	0	-						\$0
	0	-						\$0
	0	-						\$0
	0	-						\$0
	0	-						\$0
	0	-						\$0
	0	-						\$0
	0	-						\$0
	0	-						\$0
	0	-						\$0
	0	-						\$0
	0	-						\$0
	0	-						\$0
<b>Totals</b>		<b>2,422,140</b>	<b>\$158,350,000</b>			<b>\$130,540,000</b>		<b>\$27,810,000</b>





STATE OF WASHINGTON  
DEPARTMENT OF LABOR AND INDUSTRIES  
Apprenticeship Section  
PO Box 44530; Olympia, Washington 98504-4530  
(360) 902-5320; fax (360) 902-4248  
website: [www.apprenticeship.lni.wa.gov](http://www.apprenticeship.lni.wa.gov)

April 25, 2012

Puget Sound Energy  
Attn: Brian Doughty, Consulting Project Manager  
Lower Snake River Wind Project - Phase 1  
P.O. Box 97034  
Bellevue, WA 98009-9734

RE: Certification of Apprentice Labor Standard on Lower Snake River Wind Project - Phase 1

Dear Brian Doughty:

Thank you for submitting a request for certification of the apprentice labor standard on your project to the Washington State Apprenticeship and Training Council (Council). Department staff completed a review and we received confirmation that you indeed provided sufficient evidence to verify the claim of greater than 15 percent Washington approved apprentice labor hours utilized on the Lower Snake River Wind Project - Phase 1.

The Council voted unanimously on April 19, 2012 to approve the apprentice labor standard certification request for this project. Please accept this letter as confirmation that Puget Sound Energy achieved greater than 15 percent of the total labor hours performed by registered apprentices in programs approved by the Washington State Apprenticeship and Training Council on the Lower Snake River Wind Project - Phase 1. Thank you for supporting the use of registered apprentices in the renewable energy field.

Sincerely,

Lee Newgent, Chair  
Washington State Apprenticeship and Training Council

LN/jr

Cc: Council Members  
Jose Rodriguez, Assistant Director/Secretary  
Melinda Nichols, Apprenticeship Program Manager  
Troy W. Nutter, PSE Manager for Training & Procedures





STATE OF WASHINGTON  
DEPARTMENT OF LABOR AND INDUSTRIES  
Washington State Apprenticeship and Training Council  
PO Box 44530; Olympia, Washington 98504-4530  
(360) 902-5320; fax (360) 902-4248  
website: [www.apprenticeship.lni.wa.gov](http://www.apprenticeship.lni.wa.gov)

Scott Williams, Project manager  
Puget Sound Energy  
PO Box 90868  
Bellevue, WA 98009-0868

RE: Apprentice Utilization on Wild Horse Wind Farm Expansion Project

Dear Mr. Williams:

Thank you for attending our recent Washington State Apprenticeship and Training Council (Council) meeting in Tumwater and the overview of the Wild Horse Wind Farm Expansion project. Department staff completed their review and I received confirmation that you have indeed provided sufficient evidence to verify your claim of greater than 15 percent Washington approved apprentice labor hours utilized during facility construction.

Please accept this letter as confirmation that Puget Sound Energy Company achieved greater than 15 percent of the total labor hours performed by registered apprentices in programs approved by the Council on the Wild Horse Wind Farm Expansion project.

Sincerely,

A handwritten signature in black ink, appearing to read "D. L. D'Hondt".

David D'Hondt, Chair  
Washington State Apprenticeship and Training Council

DD/jr

Cc: Council Members  
Steve McLain, Council Secretary  
Elizabeth Smith, Apprenticeship Program Manager