



May 31, 2013

#### VIA ELECTRONIC FILING AND OVERNIGHT DELIVERY

Washington Utilities and Transportation Commission 1300 S. Evergreen Park Drive SW P.O. Box 47250 Olympia, WA 98504-7250

Attn: Steven V. King Acting Executive Director and Secretary

#### RE: Docket UE-\_\_\_\_PacifiCorp's Renewable Report

Dear Mr. King:

In accordance with RCW 19.285.070 and WAC 480-109-040, PacifiCorp d/b/a Pacific Power & Light Company (PacifiCorp or Company) submits its Renewable Report to the Washington Utilities and Transportation Commission in order to report the Company's progress in meeting the targets established in RCW 19.285.040.

PacifiCorp requests confidential treatment for Attachment A and the work papers to the Renewable Report under RCW 80.04.095 and in accordance with WAC 480-07-160. The documents labeled as confidential include proprietary cost data, commercially sensitive load and resource projections, confidential market analyses and business projections, and confidential information related to renewable energy credits and/or compliance with RCW 19.285. This confidential business information is of significant commercial value, which could expose the Company to competitive injury if disclosure is unrestricted. Therefore, the Company requests confidential treatment on the basis that the documents contain "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 RCW 80.04.095 in accordance with WAC 480-07-160(2)(c).

PacifiCorp submits thirteen (13) redacted copies and thirteen (13) confidential copies clearly designated with "Confidential per WAC 480-07-160" marked on each page of the confidential Attachment A. This information is printed on yellow paper, separately bound, and placed in a sealed envelope. Work papers are submitted on confidential CD.

In compliance with RCW 19.285.070(3) the Company has posted the redacted version of the Renewable Report on its website to make the information available to the Company's customers.

Washington Utilities & Transportation Commission May 31, 2013 Page 2

It is respectfully requested that any formal correspondence and staff requests regarding these reports be addressed to:

By e-mail (preferred)

datarequest@pacificorp.com

By regular mail:

Data Request Response Center PacifiCorp 825 NE Multnomah Street, Suite 2000 Portland, OR 97232

Informal questions should be directed to Gary Tawwater at (503) 813-6805.

Sincerely,

William R. Griffeth / Gur

William R. Griffith Vice President, Regulation

Enclosures



# PacifiCorp Renewable Report

# Washington



Marengo Wind Project, Dayton, Washington

May 31, 2013

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## Introduction

PacifiCorp's (PacifiCorp or Company) June 1, 2013 Renewable Report (Renewable Report) is being submitted to the Washington Department of Commerce (Commerce) and Washington Utilities and Transportation Commission (WUTC or Commission) in accordance with reporting requirements established as part of the Energy Independence Act. The report is consistent with RCW 19.285.070 which states, in relevant part:

- (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.
- (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.

This report is consistent with the collaborative workshop documents addressing annual reporting requirements, in Docket UE-110523, as well as Order 01 in Docket UE-120813, PacifiCorp's 2012 Renewable Energy Target Progress Report.

As directed in Docket UE-110523 memorandum dated May 4, 2012, two separate filings will be made, one for "Conservation" and a second for "Renewables". This report addresses the renewable targets and progress; the conservation report will be filed under separate cover.

This report demonstrates that PacifiCorp has met the 2012 renewable energy target of acquiring three percent of the Company's Washington retail load with a combination of eligible renewable resources and renewable energy credits (RECs). This report also demonstrates that the Company is in the position to meet the 2013 renewable energy target with a combination of eligible renewable resources and RECs to supply at least three percent of its average Washington retail load.

### **Executive Summary**

Under RCW 19.285.040(2)(a), each qualifying utility shall use eligible renewable resources or acquire equivalent RECs, or a combination of both, to meet annual targets. As will be demonstrated herein, the Company has met the targets in accordance with WAC 480-109-020. The Company has met the 2012 renewable energy target with a combination of eligible renewable resources and RECs and the Company is positioned to use eligible renewable resources and RECs to supply at least three percent of its Washington load to satisfy the 2013 renewable energy target. The Company plans to do so with a combination of RECs from company-owned resources, REC purchases, and eligible renewable resources, primarily hydroelectric facilities that were upgraded after March 1999.

A summary of the Company's 2012 and 2013 renewable resource targets and eligible renewable resources and RECs are provided below:

	Table 1	
PacifiCorp Renewable 7	<b>Farget, Eligible Resource</b>	and RECs
	2012	2013
Average Retail Sales (MWh)	3,995,247	4,023,881
Percentage Target	3%	3%
Renewable Target	119,857	120,716
Qualifying Resources (MWh) &		
RECs	119,857	120,716

As such, the Company will not be relying on any of the alternative compliance mechanisms provided in WAC 480-109-030 for meeting either the 2012 or 2013 renewable energy targets.

## Annual Load for Previous Two Years and Renewable Energy Target

Under RCW 19.285.040(2)(c) and WAC 480-109-020(3), a utility must calculate its annual target based on its average load for the previous two years. Accordingly, using the average of the Washington annual retail loads for the prior two years, Table 2 calculates the annual renewable targets for 2012 and 2013.

	I able	4		
an al an	2010	2011	2012	2013
Retail Sales (MWh)	3,984,631	4,005,863	4,041,898	NA
Average Retail Sales (MWh)	NA	NA	3,995,247	4,023,881
Percentage Target	0%	0%	3%	3%
Renewable Target	0	0	119,857	120,716

Table	2

### Renewable Energy Acquired To Meet Renewable Energy Target

The Company has met its 2012 renewable resource target and plans to meet its 2013 renewable resource target with a combination of RECs from company-owned and third-party wind facilities and eligible renewable resources that are hydroelectric facilities with upgrades completed after March 1999.

The Company is submitting the Commission's RPS Report Tool as Confidential Attachment A. The RPS Report Tool details the renewable resource target for 2012 and 2013 and the RECs and renewable resources to meet the 2012 and 2013 targets.

The Company will use RECs from the following Company-owned facilities or power purchase agreements:

Li	able 3
<b>Resource Name</b>	Fuel Source
Goodnoe Hills	Wind
Leaning Juniper	Wind
Marengo I	Wind
Marengo II	Wind
Wolverine Creek	Wind

Table 3

These five wind facilities are located in the Pacific Northwest. Descriptions of the projects are referenced in the Supporting Documents for Renewable Report section.

Additionally, the Company has identified upgrades to hydroelectric facilities located in the Pacific Northwest that were completed after March 31, 1999, listed in Table 4 below. The Company performed analyses to determine the incremental energy associated with upgrades to hydroelectric facilities. The methodology is described in Attachment B. This methodology is consistent with the methodology the Company submitted to the Oregon Department of Energy to certify these facilities and calculate the percentage of the incremental energy for the Oregon RPS program. The Company is providing the analyses in Confidential Work Papers – PacifiCorp Hourly Incremental Hydro Analyses.

	Table 4
<b>Resource Name</b>	Fuel Source
Prospect 2	Water – Hydro Upgrade 1999
Lemolo 1	Water – Hydro Upgrade 2003
JC Boyle	Water – Hydro Upgrade 2005
Lemolo 2	Water – Hydro Upgrade 2009

PacifiCorp has two contracts for REC only transactions executed prior to January 1, 2012. The counterparties are to provide RECs from Washington RPS eligible resources.

The Company also has an executed power purchase contract for the output from a facility owned by Grant Public Utilities District (PUD) – the Wanapum Dam, where Grant PUD

has determined the average amount of incremental hydro generation associated with the Wanapum Future Unit Fish Bypass. The Company is providing the analysis conducted by Grant PUD in Confidential Work Papers – Wanapum Incremental Hydro Analysis.

The generation and RECs are allocated to Washington based on the system generation inter-jurisdictional allocation factor except for any RECs that are situs assigned to Washington. For calendar year 2012, the company is using the actual system generation factor, and for calendar year 2013, the company is using an estimated system generation factor based on a July 2012 forecast. A summary of the REC volumes and the incremental hydro generation allocated to Washington are listed below:

	Table 5		
		WA – Allocated	Volume (MWh)
Туре	<b>Fuel Source</b>	2012	2013
		Actual	Forecast
RECs	Wind	117,079	118,483
Incremental Hydro Generation	Water	2,779	2,234
Total		119,858	120,717

The Company has included the power purchase agreements in Confidential Work Papers - REC Only Contracts and Power Purchase Agreements.

In the following pages the Company has included, PacifiCorp's report submitted to Commerce that provides the summary of the forecasted number of megawatt-hours and renewable energy credits to meet the 2013 compliance target.

Energy Independence Act (I-937) Commerce Renewable Report

Reporting Year: This renewable energy report summarizes the eligible renewables resources and renewable energy redits (RECs) that the utility has acquired by January 1, 2013 for the purpose of meeting its Energy Independence Act (EIA) renewables target for 2013. The actual resources and RECs used to comply with the 2013 EIA target may vary from those reported here. Utilities will report in June of 2015 on the actual results for 2013.	<b>Compliance Methods:</b> The EIA provides three compliance methods for utilities: Meet the renewable energy target using any combination of renewable resources and RECs. The target for 2013 is 3% 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 and not buying new non-renewable resources.	All utilities must report the renewable resources and RECs acquired for the 2013 target year. Utilities that elect to use a compliance method based on renewable investments must provide additional information demonstrating compliance with that method. 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.	gal (V / J / ) (v) is void to void a subman and a soft in void to void in the contract of the void in the contract of the void intervoid intervo	 Apprentice Labor	MWh equivalent		1	
ewables res red by Janu renewable: 2013 EIA ta 15 on the ac	n of renewa ment in the enewable ru are not grow	a acquired f d based on ating comp rgy requirer he public un RCW and	(i)	Biomass Energy	MWh	1	1	1
<b>Reporting Year:</b> This renewable energy report summarizes the eligible renewables resources and enewable energy redits (RECs) that the utility has acquired by January 1, 2013 the purpose of meeting its Energy Independence Act (EIA) renewables target for fine actual resources and RECs used to comply with the 2013 EIA target may va from those reported here. Utilities will report in June of 2015 on the actual results 2013.	<b>Compliance Methods:</b> The EIA provides three compliance methods for utilities: - Meet the renewable energy target using any combination of renewable resource and RECs. The target for 2013 is 3% of the utility's load - Invest at least 4% of the utility's annual revenue requirement in the incremental of renewable resources and RECs. - Invest at least 1% of its annual revenue requirement in renewable resources an RECs. This option is available only to certain utilities that are not growing and not buying new non-renewable resources.	All utilities must report the renewable resources and RECs acquired for the 2013 target year. Utilities that elect to use a compliance method based on renewable investments must provide additional information demonstrating compliance with th method. <i>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-WAC for details.</i>	(4)	Bicdiesel	MWh	1	ı	T
ummarizes th s) that the uti gy Independe s used to con es will report	ince methods arget using ar arget using ar is 3% of the t s 3% of the t s 3% of the the the traine are revenue re- arres.	vable resour o use a comp ional informa <i>ation of the n</i> <i>nded to help i</i> <i>ty. Consult</i> C	(6)	Gas from Sewage Treatment	<b>NWN</b>	1	1	r
ergy report si credits (REC: eting its Ener es and RECs d here. Utilitié	ods: three complia get for 2013 % of the utility rices and RE % of its annu is available of newable resoned	port the renevas that elect to provide addite addite and the provide addite and the provide addite and the addite and by the utilities of by the utilities and by the utilities a	(i)	Wave, Ocean, Tidal	NWN	-	1	1
Reporting Year: This renewable en- renewable energy the purpose of me- the actual resourc from those reporte 2013.	Compliance Methods: The EIA provides three compliance methods for utilities: - Meet the renewable energy target using any combinat and RECs. The target for 2013 is 3% of the utility's load - Invest at least 4% of the utility's annual revenue require of renewable resources and RECs. - Invest at least 1% of its annual revenue requirement ir RECs. This option is available only to certain utilities tha buying new non-renewable resources.	All utilities must relarget year. Utilitie nvestments must l nvestments must l method. NOTE: This is a ge Energy Independer information reporte WAC for details.	(e)	Landfill Gas	MWh	-	١	t
Repo This r The pu The a from 2013	Com The E A Me - Me - Ne - Inv RECs buyir	All utilitie target ye investme method. NOTE: 7 Energy I informat WAC for	(q)	Geothermal Energy	NWh		1	1
Power)	Compliance Method [19.285.040 (2)(a) RPS Target [19.285.040 (2)(d) No Load Growth [19.285.050 Resource Cost	rces 4,005,863 4,041,898 4,023,880 3% 120,716 120,717	(c)	Solar Energy	MWh		1	,
ICorp (dba Pacific Pc 112 Dalley 13-6389 dall ev@pacifi.corp.com	Compliance Method 5.040 (2)(a) RPS Target 5.040 (2)(d) No Load Grc 5.050 Resource Cost	Loads and Resources           MWh)         4.0           MWh)         4.0           MWh)         4.0           MWh)         4.0           MWh)         4.0           MWh)         1           MWh)         1	(q)	Wind	hWM	1	118,483	118,483
acifiCorp (d /1/2012 iryce Dalley 03-813-6389 ryce.dalley@	Compliance Method           X19.285.040 (2)(a) RPS Targ           19.285.050 (2)(d) No Load (19.285.050 Resource Cost		(a)	Water	MWh	2,234		2,234
Utility     PacifiCorp (dba Pacific Power)       Report Submittal Date     6/1/2012       Utility Contact Name/Dept     Bryce Dalley       Phone     503-813-6389       Email     bryce dall ev@pacifi.corp.com		2011 Annual Load (MWh)         2012 Annual Load (MWh)         2013 Eligible Romewable Energy Target (WWh)         2013 Eligible Renewable Energy Target (WWh)         2013 Eligible Renewable Energy Target (MWh)         Eligible Renewables Acquisitions / Investments (MWh)	Ι	I		Eligible Renewable Resources (MWh)	Renewable Energy Credits (MWh)	Total Renewables (MWh)

Energy Independence Act (I-937) Commerce Renewable Report – Continued

Utility PacifiCorp (dba Pacific Power)

Renewable Resources

Transportation Commission Renewable and Conservation filings for 2013.	servation filin	igs for 2013.								
I	(a)	(q)	(c)	(p)	(e)	(j)	(6)	(h)	(j)	1
1	Water	Wind	Solar Energy	Geothermal Energy	Landfill Gas	Landfill Gas Ocean, Tidal	Gas from Sewage Treatment	Biodiesel	Biomass Energy	Apprentice Labor
Facility Name	NWW	NWN	HWW	ЧММ	NWh	uwh M	<b>HWW</b>	MWh	MWM	MWh equivalent
Wanapum Dam (2013)	635									
Prospect 2 (2013)	278									
Lemolo 1 (2013)	1,087									
JC Boyle (2013)	134									*******
Lemolo 2 (2013)	100									
*** (1997) 1997) 1997 1997 1997 1997 1997 199										
				*****						
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Apprentice Labor MWh equivalent Biomass Energy ЧММ Ξ Biodiesel hwh £ Gas from Sewage Treatment MWh (g) Landfill Gas Ocean, Tidal € MWM (e) MWh Geothermal Energy PacifiCorp (dba Pacific Power) (p MWh 2013 Solar Energy NWh <u>છ</u> 17,609 15,200 28,557 14,137 17,177 25,803 , a Wind MWM Utility Compliance Year Water ЧММ (a) Marengo (2012) Marengo II (2012) Facility Name, GUID, (REC Vintage) Leaning Juniper (2012) Tuana Springs Windfarm (2012) Tuana Springs Windfarm (2013) Wolverine Creek (2013) Goodnoe Hills (2012) **Renewable Energy Credits** 

Energy Independence Act (I-937) Commerce Renewable Report – Continued

Page 9

PacifiCorp (dba Pacific Power)	2013		barran and the second se						20140-000-001-04 201400-04 201400-04 201400-04 201400-04 2000-04 2000-04 2000-000000000000				
Utility Paci	larget Year Renewables Notes:	2013 data is an estimate and subject to change.											

Energy Independence Act (I-937) Commerce Renewable Report – Continued

### **Alternative Compliance**

Under WAC 480-109-040(c), the utility must state in its report if it is relying upon one of the alternative compliance mechanisms provided in WAC 480-109-030 instead of meeting its renewable resource target. The Company does not anticipate that it will invest at least four percent of its total annual retail revenue requirement on the incremental costs of eligible renewable resources, renewable energy credits, or a combination of both.

Further, the Company does not plan to rely on any other alternative compliance mechanisms to meet its renewable resource targets for 2012 or 2013.

### **Resource Cost Compared To Annual Retail Revenue Requirement**

Under RCW 19.285.070(1), a utility must report 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. Similarly, under WAC 480-109-040(1)(b), a utility must report the incremental cost of eligible renewable resources and renewable energy credits, and the ratio of this investment relative to the utility's total annual retail revenue requirement. The incremental cost of an eligible renewable resource is defined in RCW 19.285.050(1)(b) as the difference between the levelized delivered cost of the eligible renewable resource, regardless of ownership, compared to the levelized delivered cost of an eligible renewable resources that do not qualify as eligible renewable resources, where the resources being compared have the same contract length or facility life. The incremental cost of an eligible renewable resource is also defined in WAC 480-109-030(1) as the difference between the levelized delivered system cost of the eligible renewable resource and the levelized delivered cost of an equivalent amount of reasonably available substitute resources that do not qualify as eligible renewable resource is also defined in WAC 480-109-030(1) as the difference between the levelized delivered system cost of the eligible renewable resource and the levelized delivered cost of an equivalent amount of reasonably available nonrenewable resource.

#### REC Costs for Wind Resources

The cost of the RECs from renewable wind resources is the nominal levelized cost of the renewable resource or contractual price for energy delivered from the renewable resource compared to an equivalent amount of a substitute resource, in this case, the market purchases (Mid-Columbia) shaped to the output of the renewable resource.

#### REC Costs for RECs Only Purchases

The cost of the RECs from REC only purchases are based on the contractual price setforth in the applicable bilateral agreements between the Company and the counterparty.

#### Incremental Costs for Renewable Energy from Incremental Hydro Upgrades

The incremental cost of the eligible incremental renewable energy from owned hydro and purchase power agreements was deemed to be zero.

The majority of the equipment replacements associated with the Company-owned hydro electric facilities was made in conjunction with facility overhauls; the incremental cost associated with the equipment replacements is zero on the economic basis that the marginal cost of gaining output was less than the cost of an equivalent alternative. The upgrades to the hydro electric facilities were economic decisions, as the upgrades were made to increase efficiency and to prevent forced outages from old and less reliable equipment. As such, the Company would have made the upgrades regardless of the RPS requirement.

The cost associated with incremental renewable energy from the Wanapum facility is based on the average estimated energy cost for the compliance years. The equivalent volume is compared to the monthly heavy load hour and light load hour market price (Mid-Columbia) shaped to the output of the incremental generation for the target compliance year to determine the incremental cost. Because the nominal levelized cost associated with the incremental energy is less than the levelized cost of the substitute resource, in this case market, the incremental cost is zero.

Confidential Work Papers - PacifiCorp Resource Cost Analysis provides the key assumptions and analysis that the Company used to forecast the estimated resource costs associated with the renewable resources and RECs for the target years 2012 and 2013.

#### Revenue Requirement

The most recent annual revenue requirement approved in Docket UE-111190 by the WUTC is \$307,695,000. Rates from this general rate case become effective on June 1, 2012.

#### Resource Costs Compared to Revenue Requirement

Table 6 shows the expected Washington allocated resource costs (incremental cost of eligible renewable resources and the cost of renewable energy credits) compared to the annual revenue requirement for 2012 and 2013.

Calendar Year	Washington Allocated Resource Costs	Washington Annual Revenue Requirement	% of Washington Expected Allocated Resource Costs to Annual Revenue Requirement
2012	\$ 1,885,417	\$307,695,000	0.61%
2013	\$ 1,794,350	\$307,695,000	0.58%

Table 6

Based on this analysis, the Company will not exceed the four percent threshold.

### **Prior Year Progress**

As evidenced in this report, the Company has met its Washington 2012 renewable compliance target with a combination of RECs from wind resources, unbundled REC purchases and renewable energy from hydroelectric facilities with upgrades completed after March 1999. The Company has set-aside the WREGIS certificates for the 2012 compliance target and upon Commission approval, the Company will retire these WREGIS certificates. Under RCW 19.285.030(17) no RECs shall be created from generation facilities powered by fresh water; however, the Company has set-aside the WREGIS certificates associated with the renewable generation from facilities powered by fresh water; however, the Company has set-aside the UREGIS certificates associated with the renewable generation from facilities powered by fresh water so that those WREGIS certificates may not be transferred, sold or otherwise claimed by another third-party. The Company is providing a listing of the WREGIS certificates in Confidential Work Papers – WREGIS Certificates for Washington Compliance for 2012.

The Company will invest less than four percent of its total annual retail Washington revenue requirement on the incremental costs of eligible renewable resources, renewable energy credits, or a combination of both for 2012.

Further, the Company does not rely on any other alternative compliance mechanisms to meet its renewable resource targets for 2012.

### **Current Year Progress**

The Company is positioned to meet its Washington 2013 renewable compliance target with a combination of RECs from wind resources, unbundled REC purchases and renewable energy from hydroelectric facilities with upgrades completed after March 1999. The Company has also identified, to date, the WREGIS certificates that it intends to use toward the 2013 compliance target. The Company is providing a listing of the WREGIS certificates in Confidential Work Papers – WREGIS Certificates for Washington Compliance for 2013.

The Company will invest less than four percent of its total annual retail Washington revenue requirement on the incremental costs of eligible renewable resources, renewable energy credits, or a combination of both for 2013.

Further, the Company does not rely on any other alternative compliance mechanisms to meet its renewable resource targets for 2013.

## **Supporting Documents for Renewable Report**

Provided below are links to supporting documents in support of the Company's Renewable Report.

1. Wind Project Fact Sheets

Goodnoe Hills http://www.pacificorp.com/content/dam/pacificorp/doc/Energy Sources/EnergyG eneration FactSheets/PP GFS Goodnoe Hills.pdf

Leaning Juniper http://www.pacificorp.com/content/dam/pacificorp/doc/Energy Sources/EnergyG eneration FactSheets/PP GFS Leaning Juniper.pdf

#### Marengo

http://www.pacificorp.com/content/dam/pacificorp/doc/Energy\_Sources/EnergyG eneration FactSheets/PP GFS Marengo.pdf

#### Marengo II

http://www.pacificorp.com/content/dam/pacificorp/doc/Energy Sources/EnergyG eneration FactSheets/PP GFS Marengo II.pdf

Wolverine Creek http://www.pacificorp.com/es/re/wc.html

2. Collaborative group documents from workshops conducted at the Commission and through a number of multiple issues-specific teleconference meetings, filed in Docket UE-110523.

http://www.utc.wa.gov/docs/Pages/DocketLookup.aspx?FilingID=110523

## Listing of Attachments

Attachment A (Confidential) – Washington Utilities and Transportation Commission RPS Report Tool

Attachment B – PacifiCorp Description of Incremental Hydro Methodology

PacifiCorp Annual Report Requirements RCW 19.285.070 Washington Renewable Report May 31, 2013

# Redacted <u>Attachment A</u>

CONFIDENTIAL WAC 480-07-160 Washington Utilities & Transportation Commission RPS Report Tool WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

PacifiCorp

**Renewable Report** 

**RPS Reporting Tool** 

## REDACTED

May 31, 2013

#### **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
Instructions in the	section are	for the cells B2:F31. Each ro	w represents	a different fac	cility.
	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		Comment	ts
		tify the input locations fond in the "Facility Detail"			-	" worksheet.	Inputs for

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
16	Adjustment for Events Beyond Control	Number	D62:F62	Enter the annual MWh not produced due to events beyond control as outlined in RCW 19.285.040 (2)(i)

Reporting Entity:		PacifiCo	orp	
Reporting Date:	May 31,	2013		
RCW 19.285 Compliance Need	2010	2011	2012	2013
Delivered Load to Retail Customers (MWh)	3,984,631	4,005,863	4,041,898	
WA State RCW 19.285 Requirement		0%	3%	3%
Quantity Required for Compliance		-	119,857	120,716
Eligible Quantity Acquired	2010	2011	2012	2013
Qualifying MWh Allocated to WA		104,826	107,711	
Quantity from Non REC Eligible Generation		-	-	-
Total Quantity Available for RCW 19.285 Com	pliance	104,826	107,711	
Sales and Transfers	2010	2011	2012	2013
Quantity of RECs Sold		-	-	-
Bonus Incentives Transferred		-	-	+
Bonus Incentives Not Realized		-	-	-
Total Sold / Transferred / Unrealized		-	-	-
Adjustments	2010	2011	2012	2013
2011 Surplus Applied to 2012		(104,826)	104,826	
2012 Surplus Applied to 2011		-	-	
2012 Surplus Applied to 2013			(92,680)	92,680
2013 Surplus Applied to 2012		2000 CENT	-	-
2013 Surplus Applied to 2014				
Net Surplus Adjustments		(104,826)	12,146	a an da da haka gagana saka ta haya ana bada bata.
Adjustment for Events Beyond Control		-	-	-
	2010	2011	2012*	2013*
RCW 19.285 Compliance Surplus / (Deficit)		(0)	(0)	(0)

\* Any surplus shown in 2013 or 2014 may be sold or used for compliance in subsequent years. Compliance deficits shown in 2014 may be filled by REC procurement from subsequent years.

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

#### **PACIFICORP** Notes and Assumptions

#### **Retail Sales:**

2010, 2011 and 2012 actual retail sales, 2013 forecast based on load forecast December 2012. Facility Generation:

2011 and 2012 is based on actual generation or REC purchase data. 2013 is the forecast as of April 2013. The Company uses one of three patterning methods to model wind resources. First, and if the appropriate data is available, historical monthly/seasonal patterns are developed using hourly data. This is the Company's preferred method. Second, if historical information is unavailable, but hourly data from wind site studies is, on/off peak engineering estimate patterns are developed. Third, if neither of the first two types of data is available, Energy Information Agency (EIA) wind patterning is used. **REC Sales:** 

The company does not plan to sell any excess RECs and will hold any excess RECs and apply to a future year target.

Facility Name:	Facility WREGIS ID:	Facility Type	Extra Apprenticeship Credit Eligibility:	Distributed Generation Bonus Eligibility:	Online Date:
Goodnoe Hills	W536	Wind	Not Eligible	Not Eligible	31-May-08
Leaning Juniper	W200	Wind	Not Eligible	Not Eligible	14-Sep-06
Marengo I	W185	Wind	Not Eligible	Not Eligible	1-Aug-07
Marengo II	W772	Wind	Not Eligible	Not Eligible	28-Jun-08
Bennett Creek Windfarm - REC Onl	W542	Wind	Not Eligible	Not Eligible	30-Sep-08
Hot Springs Windfarm - REC Only	W543	Wind	Not Eligible	Not Eligible	30-Sep-08
Tuana Springs - REC Only	W1503	Wind	Not Eligible	Not Eligible	14-May-10
Wanapum (Upgrade)	NA	ater (Incremental Hydi	Not Eligible	Not Eligible	1-Jul-63
Prospect 2 (Upgrade 1999)	W180	ater (Incremental Hydr	Not Eligible	Not Eligible	1-Oct-58
Lemolo 1 (Upgrade 2003)	W157	ater (Incremental Hydr	Not Eligible	Not Eligible	1-Jul-55
JC Boyle (Upgrade 2005)	W140	ater (Incremental Hydi	Not Eligible	Not Eligible	1-Jan-28
Lemolo 2 (Upgrade 2009)	W158	ater (Incremental Hydi	Not Eligible	Not Eligible	1-Nov-56
Wolverine Creek	W188	Wind	Not Eligible	Not Eligible	25-Apr-05
Facility 14					
Facility 15					
Facility 16					
Facility 17				-	
Facility 18					
Facility 19					
Facility 20					
Facility 21					
Facility 22					
Facility 23					
Facility 24					
Facility 25					
Facility 26					
Facility 27					
Facility 28					
Facility 29					
Facility 30					

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:

#### Goodnoe Hills

MWh Allocated to WA Compliance	2011	2012	2013	2014
Total MWh Produced / Purchased from Goodnoe Hills	239,431	221,156		
Percent of MWh Qualifying Under RCW 19.285	100%	100%	100%	100%
Percent of Qualifying MWh Allocated to WA	8%	8%		
Eligible MWh Available for RCW 19.285 Compliance	18,896	17,609	1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	elektroliket is interiorite finnerite
Non REC Eligible Generation	2011	2012	2013	2014
Extra Apprenticeship Credit	-	-	-	-
Distributed Generation Bonus	-		-	-
Total Quantity from Non REC Eligible Generation	-	-	-	-
REC Sales / Transfers	2011	2012	2013	2014
Quantity of RECs Sold				
Bonus Incentives Transferred				
Bonus Incentives Not Realized				
Total Sold / Transferred / Unrealized	-	-	-	-
Adjustments	2011	2012	2013	2014
2011 Surplus Applied to 2012	18,896	18,896		
2012 Surplus Applied to 2011	-			
2012 Surplus Applied to 2013		17,609	17,609	
2013 Surplus Applied to 2012		-		
2013 Surplus Applied to 2014				
Net Surplus Adjustments	(18,896)	1,287	anta atti sasa shartifan santi aying babahata atti	
Adjustment for Events Beyond Control				
Contribution to RCW 19.285 Compliance	•	18,896	17,609	

Facility Name:	Leaning Ju	uniper			
MWh Allocated to WA Complia	ance	2011	2012	2013	2014
Total MWh Produced / Purchased	from Leaning Juniper	234,789	190,905		
Percent of MWh Qualifying Under	r RCW 19.285	100%	100%	100%	100%
Percent of Qualifying MWh Alloca	harmon harmon	8%	8%		
Eligible MWh Available for RCW	19.285 Compliance	18,530	15,200		
Non REC Eligible Generation		2011	2012	2013	2014
Extra Apprenticeship Credit		-	-	-	-
Distributed Generation Bonus	L.	-	-	-	-
Total Quantity from Non REC Elig	tible Generation	-	-	-	-
<b>REC Sales / Transfers</b>	<b></b>	2011	2012	2013	2014
Quantity of RECs Sold					
Bonus Incentives Transferred					
Bonus Incentives Not Realized Total Sold / Transferred / Unreal				-	l
Total Sold / Transferred / Official	izeu	-	-	-	
Adjustments		2011	2012	2013	2014
2011 Surplus Applied to 2012		18,530	18,530		
2012 Surplus Applied to 2011		-			
2012 Surplus Applied to 2013			15,200	15,200	
2013 Surplus Applied to 2012			-		
2013 Surplus Applied to 2014		(18,530)	3,330		
Net Surplus Adjustments		(16,550)	3,330	<u></u>	en e
Adjustment for Events Beyond C	ontrol				
Contribution to RCW 19.285 Co	ompliance	(0)	18,530	15,200	
Facility Name:	Maren	go l			
MWh Allocated to WA Complia	ance	2011	2012	2013	2014
Total MWh Produced / Purchased		403,408	358,669	2013	2014
Percent of MWh Qualifying Under	-	100%	100%	100%	100%
Percent of Qualifying MWh Alloca		8%	8%	10070	10070
Eligible MWh Available for RCW		31,837	28,557	da dala secolo de Como de Como de Como	
Non REC Eligible Generation		2011	2012	2013	2014
Extra Apprenticeship Credit		-	-	-	-
Distributed Generation Bonus		-	-	-	-
Total Quantity from Non REC Elig	gible Generation	-	-	-	-
REC Sales / Transfers		2011	2012	2013	2014
Quantity of RECs Sold					
Bonus Incentives Transferred					
Bonus Incentives Not Realized		L			
Total Sold / Transferred / Unreal	ized	-	-	-	-
Adjustments		2011	2012	2013	2014
2011 Surplus Applied to 2012		31,837	31,837		
2012 Surplus Applied to 2011		-			
2012 Surplus Applied to 2013			28,557	28,557	
2013 Surplus Applied to 2012			-		
2013 Surplus Applied to 2014					
Net Surplus Adjustments	Louis Louis	(21 027)	2 200		
	toolo	(31,837)	3,280		
Adjustment for Events Beyond C	ontrol	(31,837)	3,280		
Adjustment for Events Beyond C Contribution to RCW 19.285 Co		(31,837)	3,280	28,557	

MWh Allocated to WA Compliance       2011       2012       2013       2014         Total MWh Produced / Purchased from Marengo II       194,378       177,552       100%       100         Percent of MWh Qualifying Under RCW 19.285       2011       2012       2013       2014         In Status       100%       100%       100%       100%       100%         Percent of WMh Qualifying Under RCW 19.285       2011       2012       2013       2014         Non REC Eligible Generation       2011       2012       2013       2014         Distributed Generation Bonus       -       -       -       -       -         Countity of REC Sold       Bonus Incentives Transferrs       2011       2012       2013       2014         2011 Surplus Applied to 2012       2013       2014       2014       2014       2014         2011 Surplus Applied to 2012       2013       2014       2014       2014       2014         2013 Surplus Applied to 2012       2013       2014       2014       2014       2014         2013 Surplus Applied to 2012       2013       2014       2014       2014       2014         2013 Surplus Applied to 2012       2013       2014       2014       2014       20	Facility Name:	Mareng	oll			
Total MWh Produced / Purchased from Marengo II       194,378       177,552       100%       100         Percent of MWh Qualifying Under RCW 19.285       2014       100%       100%       100         Bernett of Qualifying WMh Available for RCW 19.285 Compliance       2011       2012       2013       2014         Non REC Eligible Generation       2011       2012       2013       2014         Btra Apprentideship Credit       -       -       -       -         Data fluctured Generation Bonus       -       -       -       -       -         REC Sales / Transferrs       2011       2012       2013       2014         2011 Surplus Applied to 2012       2013       2014       2014       2014       2014         2013 Surplus Applied to 2012       2013       2014       2014       2014       2014       2014         2013 Surplus Applied to 2012       2013       14,137       14,137       2014		h				
Percent of MWh Qualifying Under RCW 19:285         100%<	MWh Allocated to WA Complia	ance			2013	2014
Percent of Qualifying MWh Allocated to WA         B%         B%         B%           Eligible MWh Aualable for RCW 19.285 Compliance         15,341         14,137           Non REC Eligible Generation         2011         2012         2013         2014           Extra Apprenticability Credit         -	-					
Eligible MWh Available for RCW 19.285 Compliance         15,341         14,137           Non REC Eligible Generation         2011         2012         2013         2014           Distributed Generation Bonus         -					100%	100%
Non REC Eligible Generation         2011         2012         2013         2014           Extra Apprenticeship Credit				and the second se		
Bxtra Apprenticeship Credit <ul> <li>i</li> <lii< li=""> <li>i</li> <li>i</li></lii<></ul>	Eligible MWh Available for RCW	19.285 Compliance	15,341	14,137	an a	and and the state of
Extra Apprenticeship Credit	Non REC Eligible Generation		2011	2012	2013	2014
Total Quantity from Non REC Eligible Generation         -	-		-	-	-	-
REC Sales / Transfers       2011       2012       2013       2014         Quantity of RECs Sold       Bonus Incentives Transferred       Image: Construction of the constructio			-	-	-	-
Quantity of RECs Sold Bonus incentives Nr Realized Total Sold / Transferred / Unrealized	Total Quantity from Non REC Elig	ible Generation		-	-	•
Quantity of RECs Sold Bonus incentives Nr Realized Total Sold / Transferred / Unrealized	RFC Sales / Transfers		2011	2012	2013	2014
Bonus Incentives Transferred Bonus Incentives Not Realized	-	<b></b>				
Bonus Incentives Not Realized       - <t< td=""><td></td><td></td><td></td><td>~~~</td><td></td><td></td></t<>				~~~		
Total Sold / Transferred / Unrealized       2011       2012       2013       2014         Adjustments       2011       2012       2013       2014         2012 Surplus Applied to 2012       15,341       15,341       2014       2014         2013 Surplus Applied to 2013       14,137       14,137       2012       2013       2014         2013 Surplus Applied to 2012       14,137       14,137       14,137       2014       2014         Net Surplus Applied to 2014       14,137       14,137       14,137       2014       2014         Adjustment for Events Beyond Control       11       11       14,137       14,137       14,137         Contribution to RCW 19.285 Compliance       (0)       15,341       14,137       14,137       14,137         MWh Allocated to WA Compliance       2011       2012       2013       2014         Total MWh Produced / Purchased from Bennett Creek W       12,259       -       -       -         Percent of MWh Qualifying Under RCW 19.285 Compliance       12,259       -       -       -       -         Non REC Eligible Generation       2011       2012       2013       2014       -       -       -         NortREC Eligible Generation       2011						
2011 Surplus Applied to 2012       15,341       15,341         2012 Surplus Applied to 2013       -       -         2013 Surplus Applied to 2013       -       -         2013 Surplus Applied to 2012       -       -         2013 Surplus Applied to 2012       -       -         2013 Surplus Applied to 2014       -       -         Net Surplus Applied to 2014       -       -         Adjustment for Events Beyond Control       -       -         Contribution to RCW 19.285 Compliance       (0)       15,341       14,137         MWh Allocated to WA Compliance       2011       2012       2013       2014         Total MWh Produced / Purchased from Bennett Creek Windfarm - REC Only       -       -       -         Percent of Qualifying Under RCW 19.285       100%       -       -       -         Percent of Qualifying MWh Allocated to WA       12,259 <td></td> <td>ized</td> <td>-</td> <td>-</td> <td>-</td> <td>•</td>		ized	-	-	-	•
2011 Surplus Applied to 2012       15,341       15,341         2012 Surplus Applied to 2013       -       -         2013 Surplus Applied to 2013       -       -         2013 Surplus Applied to 2012       -       -         2013 Surplus Applied to 2012       -       -         2013 Surplus Applied to 2014       -       -         Net Surplus Applied to 2014       -       -         Adjustment for Events Beyond Control       -       -         Contribution to RCW 19.285 Compliance       (0)       15,341       14,137         MWh Allocated to WA Compliance       2011       2012       2013       2014         Total MWh Produced / Purchased from Bennett Creek Windfarm - REC Only       -       -       -         Percent of Qualifying Under RCW 19.285       100%       -       -       -         Percent of Qualifying MWh Allocated to WA       12,259 <td>Adjustments</td> <td></td> <td>2011</td> <td>2012</td> <td>2013</td> <td>2014</td>	Adjustments		2011	2012	2013	2014
2012 Surplus Applied to 2011       - <td< td=""><td>-</td><td></td><td></td><td>D-17730</td><td>2013</td><td>2014</td></td<>	-			D-17730	2013	2014
2012 Surplus Applied to 2013       14,137       14,137         2013 Surplus Applied to 2012       -       -         2013 Surplus Applied to 2014       -       -         Net Surplus Adjustments       (15,341)       1,204         Adjustment for Events Beyond Control       -       -         Contribution to RCW 19.285 Compliance       (0)       15,341       14,137         Facility Name:       Bennett Creek Windfarm - REC Only         MWh Allocated to WA Compliance       2011       2012       2013       2014         Total MWh Produced / Purchased from Bennett Creek W       12,259       -       -       -         Percent of MWh Qualifying Under RCW 19.285 Compliance       12,259       -       -       -         Non REC Eligible Generation       2011       2012       2013       2014         Extra Apprenticeship Credit       -       -       -       -         Distributed Generation       2011       2012       2013       2014         ERC Sales / Transfers       2011       2012       2013       2014				10,541		
2013 Surplus Applied to 2012         2013 Surplus Applied to 2014         Net Surplus Adjustments         Adjustment for Events Beyond Control         Contribution to RCW 19.285 Compliance         (0)         15,341         14,137           Facility Name:         Bennett Creek Windfarm - REC Only           MWh Allocated to WA Compliance       Total MWh Produced / Purchased from Bennett Creek W         12,259         Percent of Qualifying Under RCW 19.285 Compliance         12,259         Percent of Qualifying MWh Allocated to WA         Eligible Generation         Extra Apprenticeship Credit         Distributed Generation Bonus         Total Quantity from Non REC Eligible Generation         REC Sales / Transfers         Quantity of RECs Sold			-	14 137	14 137	
2013 Surplus Applied to 2014 Net Surplus Adjustments       (15,341)       1,204         Adjustment for Events Beyond Control	,			14,137		
Net Surplus Adjustments       (15,341)       1,204         Adjustment for Events Beyond Control						
Adjustment for Events Beyond Control         Contribution to RCW 19.285 Compliance       (0)       15,341       14,137         Facility Name:       Bennett Creek Windfarm - REC Only         MWh Allocated to WA Compliance       2011       2012       2013       2014         Total MWh Produced / Purchased from Bennett Creek W       12,259       00%       00%       00%         Percent of MWh Qualifying Under RCW 19.285       100%       00%       00%       00%       00%         Eligible MWh Available for RCW 19.285 Compliance       12,259       -       -       -       -         Non REC Eligible Generation       2011       2012       2013       2014         Extra Apprenticeship Credit       -       -       -       -         Distributed Generation Bonus       -       -       -       -         Total Quantity from Non REC Eligible Generation       -       -       -       -         REC Sales / Transfers       2011       2012       2013       2014			(15.341)	1.204		
Contribution to RCW 19.285 Compliance       (0)       15,341       14,137         Facility Name:       Bennett Creek Windfarm - REC Only         MWh Allocated to WA Compliance       2011       2012       2013       2014         Total MWh Produced / Purchased from Bennett Creek W       12,259       00%			<b>,</b> ,,			
Facility Name:       Bennett Creek Windfarm - REC Only         MWh Allocated to WA Compliance       2011       2012       2013       2014         Total MWh Produced / Purchased from Bennett Creek W       12,259       -       -       -         Percent of MWh Qualifying Under RCW 19.285       100%       -       -       -       -         Percent of Qualifying MWh Allocated to WA       100%       -       -       -       -       -         Eligible MWh Available for RCW 19.285 Compliance       12,259       -	Adjustment for Events Beyond Co	ontrol				
Facility Name:       Bennett Creek Windfarm - REC Only         MWh Allocated to WA Compliance       2011       2012       2013       2014         Total MWh Produced / Purchased from Bennett Creek W       12,259       -       -       -         Percent of MWh Qualifying Under RCW 19.285       100%       -       -       -       -         Percent of Qualifying MWh Allocated to WA       100%       -       -       -       -       -         Eligible MWh Available for RCW 19.285 Compliance       12,259       -	Contribution to RCW 19.285 Co	ompliance	(0)	15.341	14,137	
Total MWh Produced / Purchased from Bennett Creek W       12,259       -         Percent of MWh Qualifying Under RCW 19.285       100%       -         Percent of Qualifying MWh Allocated to WA       100%       -         Eligible MWh Available for RCW 19.285 Compliance       12,259       -       -         Non REC Eligible Generation       2011       2012       2013       2014         Extra Apprenticeship Credit       -       -       -       -         Distributed Generation Bonus       -       -       -       -         Total Quantity from Non REC Eligible Generation       -       -       -       -         REC Sales / Transfers       2011       2012       2013       2014         Quantity of RECs Sold       -       -       -       -	Facility Name: Be	ennett Creek Wind	farm - REC Only	, <b></b>		
Total MWh Produced / Purchased from Bennett Creek W       12,259       -         Percent of MWh Qualifying Under RCW 19.285       100%       -         Percent of Qualifying MWh Allocated to WA       100%       -         Eligible MWh Available for RCW 19.285 Compliance       12,259       -       -         Non REC Eligible Generation       2011       2012       2013       2014         Extra Apprenticeship Credit       -       -       -       -         Distributed Generation Bonus       -       -       -       -         Total Quantity from Non REC Eligible Generation       -       -       -       -         REC Sales / Transfers       2011       2012       2013       2014         Quantity of RECs Sold       -       -       -       -						
Percent of MWh Qualifying Under RCW 19.285     100%	MAA/h Allocated to MA Compli		3011	2012	2012	2014
Percent of Qualifying MWh Allocated to WA     100%       Eligible MWh Available for RCW 19.285 Compliance     12,259     -     -       Non REC Eligible Generation     2011     2012     2013     2014       Extra Apprenticeship Credit     -     -     -     -       Distributed Generation Bonus     -     -     -     -       Total Quantity from Non REC Eligible Generation     2011     2012     2013     2014       REC Sales / Transfers     2011     2012     2013     2014       Quantity of RECs Sold     2011     2012     2013     2014	•			2012	2013	2014
Eligible MWh Available for RCW 19.285 Compliance     12,259     -     -     -     -       Non REC Eligible Generation     2011     2012     2013     2014       Extra Apprenticeship Credit     -     -     -     -       Distributed Generation Bonus     -     -     -     -       Total Quantity from Non REC Eligible Generation     -     -     -     -       REC Sales / Transfers     2011     2012     2013     2014       Quantity of RECs Sold     -     -     -	Total MWh Produced / Purchased	l from Bennett Creek W	12,259	2012	2013	2014
Extra Apprenticeship Credit       -	Total MWh Produced / Purchased Percent of MWh Qualifying Under	from Bennett Creek W RCW 19.285	12,259 100%	2012	2013	2014
Extra Apprenticeship Credit       -	Total MWh Produced / Purchased Percent of MWh Qualifying Under Percent of Qualifying MWh Alloca	l from Bennett Creek W r RCW 19.285 ted to WA	12,259 100% 100%	2012	2013	2014
Distributed Generation Bonus     -     -     -       Total Quantity from Non REC Eligible Generation     -     -     -       REC Sales / Transfers     2011     2012     2013     2014       Quantity of RECs Sold     -     -     -	Total MWh Produced / Purchased Percent of MWh Qualifying Under Percent of Qualifying MWh Alloca Eligible MWh Available for RCW	l from Bennett Creek W r RCW 19.285 ted to WA	12,259 100% 100% <b>12,259</b>	-	-	
Total Quantity from Non REC Eligible Generation     -     -     -     -       REC Sales / Transfers     2011     2012     2013     2014       Quantity of RECs Sold	Total MWh Produced / Purchased Percent of MWh Qualifying Under Percent of Qualifying MWh Alloca Eligible MWh Available for RCW : Non REC Eligible Generation	l from Bennett Creek W r RCW 19.285 ted to WA	12,259 100% 100% 12,259 2011	- 2012	- 2013	-
Quantity of RECs Sold	Total MWh Produced / Purchased Percent of MWh Qualifying Under Percent of Qualifying MWh Alloca Eligible MWh Available for RCW Non REC Eligible Generation Extra Apprenticeship Credit	l from Bennett Creek W r RCW 19.285 ted to WA	12,259 100% 100% 12,259 2011	2012	2013	- 2014 -
Quantity of RECs Sold	Total MWh Produced / Purchased Percent of MWh Qualifying Under Percent of Qualifying MWh Alloca Eligible MWh Available for RCW Non REC Eligible Generation Extra Apprenticeship Credit Distributed Generation Bonus	I from Bennett Creek W	12,259 100% 100% 12,259 2011	2012	2013	- 2014 -
	Total MWh Produced / Purchased Percent of MWh Qualifying Under Percent of Qualifying MWh Alloca Eligible MWh Available for RCW Non REC Eligible Generation Extra Apprenticeship Credit Distributed Generation Bonus Total Quantity from Non REC Elig	I from Bennett Creek W	12,259 100% 100% 12,259 2011 - -	- 2012	- 2013 - -	
	Total MWh Produced / Purchased Percent of MWh Qualifying Under Percent of Qualifying MWh Alloca Eligible MWh Available for RCW 3 Non REC Eligible Generation Extra Apprenticeship Credit Distributed Generation Bonus Total Quantity from Non REC Elig REC Sales / Transfers	I from Bennett Creek W	12,259 100% 100% 12,259 2011 - -	- 2012	- 2013 - -	- 2014

Bonus Incentives Transferred Bonus Incentives Not Realized Total Sold / Transferred / Unrealized

#### Adjustments

2011 Surplus Applied to 2012 2012 Surplus Applied to 2011 2012 Surplus Applied to 2013 2013 Surplus Applied to 2012 2013 Surplus Applied to 2014 Net Surplus Adjustments

2011	2012	2013	2014
12,259	12,259		
-			
		-	
	-		
			-
(12,259)	12,259	-	-

12,259

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Adjustment for Events Beyond Control

Contribution to RCW 19.285 Compliance

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#### Facility Name: Hot Springs Windfarm - REC Only

MWh Allocated to WA Compliance	2011	2012	2013	2014
Total MWh Produced / Purchased from Hot Springs Wind	7,963			
Percent of MWh Qualifying Under RCW 19.285	100%			
Percent of Qualifying MWh Allocated to WA	100%			
Eligible MWh Available for RCW 19.285 Compliance	7,963	-	-	-
Non REC Eligible Generation	2011	2012	2013	2014
Extra Apprenticeship Credit	-	-	-	•
Distributed Generation Bonus	-	-	-	-
Total Quantity from Non REC Eligible Generation	-	-	-	-
REC Sales / Transfers	2011	2012	2013	2014
Quantity of RECs Sold	[			
Bonus Incentives Transferred				
Bonus Incentives Not Realized				
Total Sold / Transferred / Unrealized	-	~	-	-
Adjustments	2011	2012	2013	2014
2011 Surplus Applied to 2012	7,963	7,963		
2012 Surplus Applied to 2011	-			
2012 Surplus Applied to 2013			-	
2013 Surplus Applied to 2012		-		
2013 Surplus Applied to 2014				-
Net Surplus Adjustments	(7,963)	7,963	-	-
Adjustment for Events Beyond Control	The second se			
	-	7,963		
Contribution to RCW 19.285 Compliance			1	
Contribution to RCW 19.285 Compliance				
	gs - REC Only			
Facility Name: Tuana Sprin	2011	2012	2013	2014
Facility Name: Tuana Sprin MWh Allocated to WA Compliance Total MWh Produced / Purchased from Tuana Springs - F	2011	29,430		
Facility Name: Tuana Sprin MWh Allocated to WA Compliance Total MWh Produced / Purchased from Tuana Springs - F Percent of MWh Qualifying Under RCW 19.285	2011	29,430 100%	2013	2014
Facility Name: MWh Allocated to WA Compliance Total MWh Produced / Purchased from Tuana Springs - F Percent of MWh Qualifying Under RCW 19.285 Percent of Qualifying MWh Allocated to WA	2011	29,430 100% 100%		
Facility Name: Tuana Sprin MWh Allocated to WA Compliance Total MWh Produced / Purchased from Tuana Springs - F Percent of MWh Qualifying Under RCW 19.285	2011	29,430 100%		
Facility Name: Tuana Sprin MWh Allocated to WA Compliance Total MWh Produced / Purchased from Tuana Springs - F Percent of MWh Qualifying Under RCW 19.285 Percent of Qualifying MWh Allocated to WA Eligible MWh Available for RCW 19.285 Compliance Non REC Eligible Generation	2011	29,430 100% 100% <b>29,430</b> 2012	2013	100% 2014
Facility Name: Tuana Sprin MWh Allocated to WA Compliance Total MWh Produced / Purchased from Tuana Springs - F Percent of MWh Qualifying Under RCW 19.285 Percent of Qualifying MWh Allocated to WA Eligible MWh Available for RCW 19.285 Compliance Non REC Eligible Generation Extra Apprenticeship Credit	2011 REC Only - 2011	29,430 100% 100% 29,430 2012	100% 2013 -	100%
Facility Name: Tuana Sprin MWh Allocated to WA Compliance Total MWh Produced / Purchased from Tuana Springs - F Percent of MWh Qualifying Under RCW 19.285 Percent of Qualifying MWh Allocated to WA Eligible MWh Available for RCW 19.285 Compliance Non REC Eligible Generation	2011 IEC Only	29,430 100% 100% <b>29,430</b> 2012	2013	100% 2014
Facility Name: Tuana Sprin MWh Allocated to WA Compliance Total MWh Produced / Purchased from Tuana Springs - F Percent of MWh Qualifying Under RCW 19.285 Percent of Qualifying MWh Allocated to WA Eligible MWh Available for RCW 19.285 Compliance Non REC Eligible Generation Extra Apprenticeship Credit Distributed Generation Bonus Total Quantity from Non REC Eligible Generation	2011 REC Only	29,430 100% 100% 29,430 2012 - - -	100% 2013 - - -	100% 2014 - - -
Facility Name:       Tuana Spring         MWh Allocated to WA Compliance         Total MWh Produced / Purchased from Tuana Springs - F         Percent of MWh Qualifying Under RCW 19.285         Percent of Qualifying MWh Allocated to WA         Eligible MWh Available for RCW 19.285 Compliance         Non REC Eligible Generation         Extra Apprenticeship Credit         Distributed Generation Bonus         Total Quantity from Non REC Eligible Generation         REC Sales / Transfers	2011 REC Only - 2011	29,430 100% 100% 29,430 2012	100% 2013 -	100% 2014
Facility Name:       Tuana Spring         MWh Allocated to WA Compliance         Total MWh Produced / Purchased from Tuana Springs - F         Percent of MWh Qualifying Under RCW 19.285         Percent of Qualifying MWh Allocated to WA         Eligible MWh Available for RCW 19.285 Compliance         Non REC Eligible Generation         Extra Apprenticeship Credit         Distributed Generation Bonus         Total Quantity from Non REC Eligible Generation         REC Sales / Transfers         Quantity of RECs Sold	2011 REC Only	29,430 100% 100% 29,430 2012 - - -	100% 2013 - - -	100% 2014 - - -
Facility Name:       Tuana Spring         MWh Allocated to WA Compliance         Total MWh Produced / Purchased from Tuana Springs - F         Percent of MWh Qualifying Under RCW 19.285         Percent of Qualifying MWh Allocated to WA         Eligible MWh Available for RCW 19.285 Compliance         Non REC Eligible Generation         Extra Apprenticeship Credit         Distributed Generation Bonus         Total Quantity from Non REC Eligible Generation         REC Sales / Transfers         Quantity of RECs Sold         Bonus Incentives Transferred	2011 REC Only	29,430 100% 100% 29,430 2012 - - -	100% 2013 - - -	100% 2014 - - -
Facility Name:       Tuana Spring         MWh Allocated to WA Compliance         Total MWh Produced / Purchased from Tuana Springs - F         Percent of MWh Qualifying Under RCW 19.285         Percent of Qualifying MWh Allocated to WA         Eligible MWh Available for RCW 19.285 Compliance         Non REC Eligible Generation         Extra Apprenticeship Credit         Distributed Generation Bonus         Total Quantity from Non REC Eligible Generation         REC Sales / Transfers         Quantity of RECs Sold	2011 REC Only	29,430 100% 100% 29,430 2012 - - -	100% 2013 - - -	100% 2014 - - -
Facility Name:       Tuana Sprin         MWh Allocated to WA Compliance       Total MWh Produced / Purchased from Tuana Springs - F         Percent of MWh Qualifying Under RCW 19.285       Percent of Qualifying MWh Allocated to WA         Eligible MWh Available for RCW 19.285 Compliance         Non REC Eligible Generation         Extra Apprenticeship Credit         Distributed Generation Bonus         Total Quantity from Non REC Eligible Generation         REC Sales / Transfers         Quantity of RECs Sold         Bonus Incentives Transferred         Bonus Incentives Not Realized         Total Sold / Transferred / Unrealized	2011 REC Only	29,430 100% 100% 29,430 2012 - - -	100% 2013 - - -	100% 2014 - - -
Facility Name:       Tuana Spring         MWh Allocated to WA Compliance         Total MWh Produced / Purchased from Tuana Springs - F         Percent of MWh Qualifying Under RCW 19.285         Percent of Qualifying MWh Allocated to WA         Eligible MWh Available for RCW 19.285 Compliance         Non REC Eligible Generation         Extra Apprenticeship Credit         Distributed Generation Bonus         Total Quantity from Non REC Eligible Generation         REC Sales / Transfers         Quantity of RECs Sold         Bonus Incentives Not Realized         Total Sold / Transferred / Unrealized         Adjustments	2011 REC Only	29,430 100% 100% 29,430 2012 - - 2012 - - 2012 - - - 2012	100% 2013 - - 2013 - 2013	100% 2014 - - 2014 - -
Facility Name:       Tuana Spring         MWh Allocated to WA Compliance         Total MWh Produced / Purchased from Tuana Springs - F         Percent of MWh Qualifying Under RCW 19.285         Percent of Qualifying MWh Allocated to WA         Eligible MWh Available for RCW 19.285 Compliance         Non REC Eligible Generation         Extra Apprenticeship Credit         Distributed Generation Bonus         Total Quantity from Non REC Eligible Generation         REC Sales / Transfers         Quantity of RECs Sold         Bonus Incentives Transferred         Bonus Incentives Not Realized         Total Sold / Transferred / Unrealized         Adjustments         2011 Surplus Applied to 2012	2011 REC Only	29,430 100% 100% 29,430 2012 - - 2012 - 2012 - 2012	100% 2013 - - 2013 - 2013	100% 2014 - - 2014 - -
Facility Name:       Tuana Spring         MWh Allocated to WA Compliance         Total MWh Produced / Purchased from Tuana Springs - F         Percent of MWh Qualifying Under RCW 19.285         Percent of Qualifying MWh Allocated to WA         Eligible MWh Available for RCW 19.285 Compliance         Non REC Eligible Generation         Extra Apprenticeship Credit         Distributed Generation Bonus         Total Quantity from Non REC Eligible Generation         REC Sales / Transfers         Quantity of RECs Sold         Bonus Incentives Not Realized         Total Sold / Transferred / Unrealized         Adjustments	2011 REC Only - 2011 - 2011 - 2011 - 2011 - 2011 - 2011 - 2011 2011 2011	29,430 100% 100% 29,430 2012 - - 2012 - 2012 - 2012	100% 2013 - - 2013 - 2013	100% 2014 - - 2014 - -
Facility Name:       Tuana Spring         MWh Allocated to WA Compliance         Total MWh Produced / Purchased from Tuana Springs - F         Percent of MWh Qualifying Under RCW 19.285         Percent of Qualifying MWh Allocated to WA         Eligible MWh Available for RCW 19.285 Compliance         Non REC Eligible Generation         Extra Apprenticeship Credit         Distributed Generation Bonus         Total Quantity from Non REC Eligible Generation         REC Sales / Transfers         Quantity of RECs Sold         Bonus Incentives Transferred         Bonus Incentives Not Realized         Total Sold / Transferred / Unrealized         Adjustments         2011 Surplus Applied to 2012         2012 Surplus Applied to 2011	2011 REC Only	29,430 100% 100% 29,430 2012 - - 2012 - 2012 - 2012	100% 2013 - - 2013 - 2013	100% 2014 - - 2014 - -
Facility Name:       Tuana Spring         MWh Allocated to WA Compliance         Total MWh Produced / Purchased from Tuana Springs - F         Percent of MWh Qualifying Under RCW 19.285         Percent of Qualifying MWh Allocated to WA         Eligible MWh Available for RCW 19.285 Compliance         Non REC Eligible Generation         Extra Apprenticeship Credit         Distributed Generation Bonus         Total Quantity from Non REC Eligible Generation         REC Sales / Transfers         Quantity of RECs Sold         Bonus Incentives Transferred         Bonus Incentives Not Realized         Total Sold / Transferred / Unrealized         Adjustments         2011 Surplus Applied to 2012         2012 Surplus Applied to 2011         2012 Surplus Applied to 2013	2011 REC Only	29,430 100% 100% 29,430 2012 - 2012 - 2012 - 2012 - 17,177	100% 2013 - - 2013 - 2013	100% 2014 - - 2014 - -
Facility Name:       Tuana Sprin;         MWh Allocated to WA Compliance         Total MWh Produced / Purchased from Tuana Springs - F         Percent of MWh Qualifying Under RCW 19.285         Percent of Qualifying MWh Allocated to WA         Eligible MWh Available for RCW 19.285 Compliance         Non REC Eligible Generation         Extra Apprenticeship Credit         Distributed Generation Bonus         Total Quantity from Non REC Eligible Generation         REC Sales / Transfers         Quantity of RECs Sold         Bonus Incentives Transferred         Bonus Incentives Not Realized         Total Sold / Transferred / Unrealized         Adjustments         2011 Surplus Applied to 2012         2012 Surplus Applied to 2013         2013 Surplus Applied to 2013         2013 Surplus Applied to 2013	2011 REC Only	29,430 100% 100% 29,430 2012 - 2012 - 2012 - 2012 - 17,177	100% 2013 - - 2013 - 2013	100% 2014 - - 2014 - -
Facility Name:       Tuana Spring         MWh Allocated to WA Compliance       Total MWh Produced / Purchased from Tuana Springs - F         Percent of MWh Qualifying Under RCW 19.285       Percent of Qualifying MWh Allocated to WA         Eligible MWh Available for RCW 19.285 Compliance         Non REC Eligible Generation         Extra Apprenticeship Credit         Distributed Generation Bonus         Total Quantity from Non REC Eligible Generation         REC Sales / Transfers         Quantity of RECs Sold         Bonus Incentives Transferred         Bonus Incentives Not Realized         Total Sold / Transferred / Unrealized         Adjustments         2011 Surplus Applied to 2011         2012 Surplus Applied to 2013         2013 Surplus Applied to 2013         2013 Surplus Applied to 2013         2013 Surplus Applied to 2014	2011 REC Only	29,430 100% 100% 29,430 2012 - - 2012 - 2012 - 2012 - 2012 - 17,177 -	100% 2013 - - 2013 - 2013	100% 2014 - - 2014 - -
Facility Name:       Tuana Spring         MWh Allocated to WA Compliance         Total MWh Produced / Purchased from Tuana Springs - F         Percent of MWh Qualifying Under RCW 19.285         Percent of Qualifying MWh Allocated to WA         Eligible MWh Available for RCW 19.285 Compliance         Non REC Eligible Generation         Extra Apprenticeship Credit         Distributed Generation Bonus         Total Quantity from Non REC Eligible Generation         REC Sales / Transfers         Quantity of RECs Sold         Bonus Incentives Transferred         Bonus Incentives Not Realized         Total Sold / Transferred / Unrealized         Adjustments         2011 Surplus Applied to 2011         2013 Surplus Applied to 2013         2013 Surplus Applied to 2013         2013 Surplus Applied to 2014         Net Surplus Adjustments	2011 REC Only	29,430 100% 100% 29,430 2012 - - 2012 - 2012 - 2012 - 2012 - 17,177 -	100% 2013 - - 2013 - 2013	100% 2014 - - 2014 - -

Facility Name:	Wanapum (U	pgrade)			
MWh Allocated to WA Complian	nce	2011	2012	2013	2014
Total MWh Produced / Purchased f	rom Wanapum (Upgrade)		8,509		
Percent of MWh Qualifying Under F			100%	100%	
Percent of Qualifying MWh Allocate			8%	635	
Eligible MWh Available for RCW 19	3.285 Compliance	-	678	035	-
Non REC Eligible Generation		2011	2012	2013	2014
Extra Apprenticeship Credit		-	-	-	-
Distributed Generation Bonus		-	-	-	
Total Quantity from Non REC Eligit	ole Generation	-	-	-	-
REC Sales / Transfers		2011	2012	2013	2014
Quantity of RECs Sold			2012	2010	
Bonus Incentives Transferred					
Bonus Incentives Not Realized					
Total Sold / Transferred / Unrealiz	ed	-	-	-	-
Adjustments		2011	2012	2013	2014
2011 Surplus Applied to 2012	[	2011	-	2013	2027
2012 Surplus Applied to 2012 2012 Surplus Applied to 2011	-100.00 Au	-			
2012 Surplus Applied to 2013				-	
2013 Surplus Applied to 2012			-		
2013 Surplus Applied to 2014					-
Net Surplus Adjustments		-	-	-	-
Adjustment for Events Beyond Cor	ntrol				
			678	635	
Facility Name:	Prospect 2 (Upg				
	Prospect 2 (Upg				
WWh Allocated to WA Complian	nce	2011	2012	2013	2014
WWh Allocated to WA Complian Total MWh Produced / Purchased f	nce rom Prospect 2 (Upgrade	2011			2014
/Wh Allocated to WA Complian	nce irom Prospect 2 (Upgrade RCW 19.285	2011	2012 4,118	2013	2014
WWh Allocated to WA Complian Total MWh Produced / Purchased f Percent of MWh Qualifying Under f	nce irom Prospect 2 (Upgrade RCW 19.285 ed to WA	2011	2012 4,118 100%	2013	2014
MWh Allocated to WA Complian Total MWh Produced / Purchased f Percent of MWh Qualifying Under F Percent of Qualifying MWh Allocate Eligible MWh Available for RCW 19	nce irom Prospect 2 (Upgrade RCW 19.285 ed to WA	2011 1999)	2012 4,118 100% 8% <b>328</b>	2013 100% <b>278</b>	
MWh Allocated to WA Complian Total MWh Produced / Purchased f Percent of MWh Qualifying Under F Percent of Qualifying MWh Allocate Eligible MWh Available for RCW 19 Non REC Eligible Generation	nce irom Prospect 2 (Upgrade RCW 19.285 ed to WA	2011	2012 4,118 100% 8%	2013 100%	2014
/Wh Allocated to WA Complian Total MWh Produced / Purchased f Percent of MWh Qualifying Under F Percent of Qualifying MWh Allocate Eligible MWh Available for RCW 19	nce irom Prospect 2 (Upgrade RCW 19.285 ed to WA	2011 1999) - - 2011	2012 4,118 100% 8% 328 2012	2013 100% <b>278</b> 2013	2014
/Wh Allocated to WA Complian Total MWh Produced / Purchased f Percent of MWh Qualifying Under f Percent of Qualifying MWh Allocate Eligible MWh Available for RCW 19 Non REC Eligible Generation Extra Apprenticeship Credit	nce irom Prospect 2 (Upgrade RCW 19.285 ed to WA 9.285 Compliance	2011 1999) - - 2011 -	2012 4,118 100% 8% 328 2012	2013 100% <b>278</b> 2013 -	- 2014
Percent of MWh Qualifying Under F Percent of Qualifying MWh Allocato Eligible MWh Available for RCW 19 Non REC Eligible Generation Extra Apprenticeship Credit Distributed Generation Bonus Total Quantity from Non REC Eligit	nce irom Prospect 2 (Upgrade RCW 19.285 ed to WA 9.285 Compliance	2011 1999) - 2011 - -	2012 4,118 100% 8% 328 2012 - - -	2013 100% 278 2013 - - -	2014
MWh Allocated to WA Complian Total MWh Produced / Purchased f Percent of MWh Qualifying Under f Percent of Qualifying MWh Allocate Eligible MWh Available for RCW 19 Non REC Eligible Generation Extra Apprenticeship Credit Distributed Generation Bonus Total Quantity from Non REC Eligit REC Sales / Transfers	nce irom Prospect 2 (Upgrade RCW 19.285 ed to WA 9.285 Compliance	2011 1999) - - 2011 -	2012 4,118 100% 8% 328 2012	2013 100% <b>278</b> 2013 -	- 2014
WWh Allocated to WA Complian Total MWh Produced / Purchased f Percent of MWh Qualifying Under f Percent of Qualifying MWh Allocate Eligible MWh Available for RCW 19 Non REC Eligible Generation Extra Apprenticeship Credit Distributed Generation Bonus Total Quantity from Non REC Eligit REC Sales / Transfers Quantity of RECs Sold	nce irom Prospect 2 (Upgrade RCW 19.285 ed to WA 9.285 Compliance	2011 1999) - 2011 - -	2012 4,118 100% 8% 328 2012 - - -	2013 100% 278 2013 - - -	2014
Allocated to WA Complian Total MWh Produced / Purchased f Percent of MWh Qualifying Under f Percent of Qualifying MWh Allocate Eligible MWh Available for RCW 19 Non REC Eligible Generation Extra Apprenticeship Credit Distributed Generation Bonus Total Quantity from Non REC Eligit REC Sales / Transfers	nce irom Prospect 2 (Upgrade RCW 19.285 ed to WA 9.285 Compliance	2011 1999) - 2011 - -	2012 4,118 100% 8% 328 2012 - - -	2013 100% 278 2013 - - -	2014
/Wh Allocated to WA Complian Total MWh Produced / Purchased f Percent of MWh Qualifying Under F Percent of Qualifying MWh Allocate Eligible MWh Available for RCW 19 Ion REC Eligible Generation Extra Apprenticeship Credit Distributed Generation Bonus Total Quantity from Non REC Eligib REC Sales / Transfers Quantity of RECs Sold Bonus Incentives Transferred	nce from Prospect 2 (Upgrade RCW 19.285 ed to WA 9.285 Compliance ble Generation	2011 1999) - 2011 - -	2012 4,118 100% 8% 328 2012 - - -	2013 100% 278 2013 - - -	2014
Allocated to WA Complian Total MWh Produced / Purchased f Percent of MWh Qualifying Under F Percent of Qualifying MWh Allocate Eligible MWh Available for RCW 19 Non REC Eligible Generation Extra Apprenticeship Credit Distributed Generation Bonus Total Quantity from Non REC Eligit REC Sales / Transfers Quantity of RECs Sold Bonus Incentives Transferred Bonus Incentives Not Realized Total Sold / Transferred / Unrealized	nce from Prospect 2 (Upgrade RCW 19.285 ed to WA 9.285 Compliance ble Generation	2011 1999) - - 2011 - - 2011 - - 2011 -	2012 4,118 100% 8% 328 2012 - - - 2012	2013 100% <b>278</b> 2013 - 2013 - 2013	2014
Allocated to WA Complian Total MWh Produced / Purchased f Percent of MWh Qualifying Under f Percent of Qualifying MWh Allocate Eligible MWh Available for RCW 19 Non REC Eligible Generation Extra Apprenticeship Credit Distributed Generation Bonus Total Quantity from Non REC Eligit REC Sales / Transfers Quantity of RECs Sold Bonus Incentives Transferred Bonus Incentives Not Realized Total Sold / Transferred / Unrealized Adjustments	nce from Prospect 2 (Upgrade RCW 19.285 ed to WA 9.285 Compliance ble Generation	2011 1999) - - 2011 - - 2011 - 2011	2012 4,118 100% 8% 328 2012 - - -	2013 100% 278 2013 - - -	2014
Allocated to WA Complian Total MWh Produced / Purchased f Percent of MWh Qualifying Under F Percent of Qualifying MWh Allocate Eligible MWh Available for RCW 19 Non REC Eligible Generation Extra Apprenticeship Credit Distributed Generation Bonus Total Quantity from Non REC Eligit REC Sales / Transfers Quantity of RECs Sold Bonus Incentives Transferred Bonus Incentives Not Realized Total Sold / Transferred / Unrealiz Adjustments 2011 Surplus Applied to 2012	nce from Prospect 2 (Upgrade RCW 19.285 ed to WA 9.285 Compliance ble Generation	2011 1999) - - 2011 - - 2011 - - 2011 -	2012 4,118 100% 8% 328 2012 - - - 2012	2013 100% <b>278</b> 2013 - 2013 - 2013	2014
MWh Allocated to WA Complian Total MWh Produced / Purchased f Percent of MWh Qualifying Under f Percent of Qualifying MWh Allocate Eligible MWh Available for RCW 19 Non REC Eligible Generation Extra Apprenticeship Credit Distributed Generation Bonus Total Quantity from Non REC Eligit REC Sales / Transfers Quantity of RECs Sold Bonus Incentives Transferred Bonus Incentives Not Realized Total Sold / Transferred / Unrealiz Adjustments	nce from Prospect 2 (Upgrade RCW 19.285 ed to WA 9.285 Compliance ble Generation	2011 1999) 2011 2011 2011 2011	2012 4,118 100% 8% 328 2012 - - - 2012	2013 100% <b>278</b> 2013 - 2013 - 2013	2014 2014
MWh Allocated to WA Complian Total MWh Produced / Purchased f Percent of MWh Qualifying Under f Percent of Qualifying MWh Allocate Eligible MWh Available for RCW 19 Non REC Eligible Generation Extra Apprenticeship Credit Distributed Generation Bonus Total Quantity from Non REC Eligit REC Sales / Transfers Quantity of RECs Sold Bonus Incentives Transferred Bonus Incentives Not Realized Total Sold / Transferred / Unrealiz Adjustments 2011 Surplus Applied to 2012 2012 Surplus Applied to 2011	nce from Prospect 2 (Upgrade RCW 19.285 ed to WA 9.285 Compliance ble Generation	2011 1999) 2011 2011 2011 2011	2012 4,118 100% 8% 328 2012 - - - 2012	2013 100% 278 2013 - 2013 - 2013	2014
<ul> <li>WWh Allocated to WA Complian Total MWh Produced / Purchased f Percent of MWh Qualifying Under F Percent of Qualifying MWh Allocate Eligible MWh Available for RCW 19</li> <li>Non REC Eligible Generation Extra Apprenticeship Credit Distributed Generation Bonus Total Quantity from Non REC Eligible REC Sales / Transfers Quantity of RECs Sold Bonus Incentives Transferred Bonus Incentives Not Realized Total Sold / Transferred / Unrealized Total Surplus Applied to 2012 2011 Surplus Applied to 2013 2013 Surplus Applied to 2012 2013 Surplus Applied to 2012 2013 Surplus Applied to 2012</li> </ul>	nce from Prospect 2 (Upgrade RCW 19.285 ed to WA 9.285 Compliance ble Generation	2011 1999) 2011 2011 2011 2011	2012 4,118 100% 8% 328 2012 - - - 2012	2013 100% 278 2013 - 2013 - 2013	2014 2014
<ul> <li>WWh Allocated to WA Complian Total MWh Produced / Purchased f Percent of MWh Qualifying Under F Percent of Qualifying MWh Allocate Eligible MWh Available for RCW 15</li> <li>Non REC Eligible Generation Extra Apprenticeship Credit Distributed Generation Bonus Total Quantity from Non REC Eligible REC Sales / Transfers</li> <li>Quantity of RECs Sold Bonus Incentives Transferred Bonus Incentives Not Realized Total Sold / Transferred / Unrealized Total Sold / Transferred / Unrealized</li> <li>Adjustments</li> <li>2011 Surplus Applied to 2011 2012 Surplus Applied to 2013 2013 Surplus Applied to 2013</li> </ul>	nce from Prospect 2 (Upgrade RCW 19.285 ed to WA 9.285 Compliance ble Generation	2011 1999) 2011 2011 2011 2011	2012 4,118 100% 8% 328 2012 - - - 2012	2013 100% 278 2013 - 2013 - 2013	2014 
<ul> <li>WWh Allocated to WA Complian Total MWh Produced / Purchased f Percent of MWh Qualifying Under F Percent of Qualifying MWh Allocate Eligible MWh Available for RCW 19</li> <li>Non REC Eligible Generation Extra Apprenticeship Credit Distributed Generation Bonus Total Quantity from Non REC Eligible REC Sales / Transfers Quantity of RECs Sold Bonus Incentives Transferred Bonus Incentives Not Realized Total Sold / Transferred / Unrealized Total Surplus Applied to 2012 2011 Surplus Applied to 2013 2013 Surplus Applied to 2012 2013 Surplus Applied to 2012 2013 Surplus Applied to 2012</li> </ul>	nce irom Prospect 2 (Upgrade RCW 19.285 ed to WA 9.285 Compliance ble Generation	2011 1999) 2011 2011 2011 2011	2012 4,118 100% 8% 328 2012 - - 2012 - 2012 - 2012	2013 100% 278 2013 - 2013 - 2013 - 2013	2014 
<ul> <li>WWh Allocated to WA Complian Total MWh Produced / Purchased f Percent of MWh Qualifying Under F Percent of Qualifying MWh Allocate Eligible MWh Available for RCW 19</li> <li>Non REC Eligible Generation Extra Apprenticeship Credit Distributed Generation Bonus Total Quantity from Non REC Eligit</li> <li>REC Sales / Transfers Quantity of RECs Sold Bonus Incentives Transferred Bonus Incentives Transferred Bonus Incentives Not Realized Total Sold / Transferred / Unrealiz</li> <li>Adjustments</li> <li>2011 Surplus Applied to 2012 2012 Surplus Applied to 2013 2013 Surplus Applied to 2012 2013 Surplus Applied to 2014 Net Surplus Adjustments</li> </ul>	nce rom Prospect 2 (Upgrade RCW 19.285 ed to WA 9.285 Compliance ble Generation ed	2011 1999) 2011 2011 2011 2011	2012 4,118 100% 8% 328 2012 - - 2012 - 2012 - 2012	2013 100% 278 2013 - 2013 - 2013 - 2013	2014 

Facility Name: Lemolo 1 (U	pgrade 2003)			
MWh Allocated to WA Compliance	2011	2012	2013	2014
Total MWh Produced / Purchased from Lemolo 1 (Upgra	ade 2003)	17,021		
Percent of MWh Qualifying Under RCW 19.285		100%	100%	
Percent of Qualifying MWh Allocated to WA Eligible MWh Available for RCW 19.285 Compliance	-	8% 1,355	1,087	-
Non REC Eligible Generation Extra Apprenticeship Credit	2011	2012	2013	2014
Distributed Generation Bonus	-	-	-	-
Total Quantity from Non REC Eligible Generation	-	-	-	-
REC Sales / Transfers	2011	2012	2013	2014
Quantity of RECs Sold				
Bonus Incentives Transferred				
Bonus Incentives Not Realized			l	
Total Sold / Transferred / Unrealized	-	-	-	-
Adjustments	2011	2012	2013	2014
2011 Surplus Applied to 2012				
2012 Surplus Applied to 2011 2012 Surplus Applied to 2013	-		-	
2013 Surplus Applied to 2013		-		
2013 Surplus Applied to 2014			(4000)	
Net Surplus Adjustments	-	-	-	-
Adjustment for Events Beyond Control				
Contribution to RCW 19.285 Compliance	•	1,355	1,087	•
	pgrade 2005)	1,355	1,087	
Facility Name: JC Boyle (U				
·	2011	1,355 2012 3,462	2013	2014
Facility Name: JC Boyle (U MWh Allocated to WA Compliance Total MWh Produced / Purchased from JC Boyle (Upgrad Percent of MWh Qualifying Under RCW 19.285	2011	2012 3,462 100%		2014
Facility Name: JC Boyle (U MWh Allocated to WA Compliance Total MWh Produced / Purchased from JC Boyle (Upgrad Percent of MWh Qualifying Under RCW 19.285 Percent of Qualifying MWh Allocated to WA	2011	2012 3,462 100% 8%	2013	2014
Facility Name: JC Boyle (U MWh Allocated to WA Compliance Total MWh Produced / Purchased from JC Boyle (Upgrad Percent of MWh Qualifying Under RCW 19.285	2011	2012 3,462 100%	2013	2014
Facility Name: JC Boyle (U MWh Allocated to WA Compliance Total MWh Produced / Purchased from JC Boyle (Upgrad Percent of MWh Qualifying Under RCW 19.285 Percent of Qualifying MWh Allocated to WA Eligible MWh Available for RCW 19.285 Compliance Non REC Eligible Generation	2011 de 2005) - - 2011	2012 3,462 100% 8% 276 2012	2013 100% 134 2013	2014
Facility Name: JC Boyle (U MWh Allocated to WA Compliance Total MWh Produced / Purchased from JC Boyle (Upgrad Percent of MWh Qualifying Under RCW 19.285 Percent of Qualifying MWh Allocated to WA Eligible MWh Available for RCW 19.285 Compliance Non REC Eligible Generation Extra Apprenticeship Credit	2011 de 2005)	2012 3,462 100% 8% <b>276</b>	2013 100% 134	
Facility Name: JC Boyle (U MWh Allocated to WA Compliance Total MWh Produced / Purchased from JC Boyle (Upgrad Percent of MWh Qualifying Under RCW 19.285 Percent of Qualifying MWh Allocated to WA Eligible MWh Available for RCW 19.285 Compliance Non REC Eligible Generation	2011 de 2005) - 2011	2012 3,462 100% 8% 276 2012 -	2013 100% 134 2013 -	2014
Facility Name: JC Boyle (U MWh Allocated to WA Compliance Total MWh Produced / Purchased from JC Boyle (Upgrad Percent of MWh Qualifying Under RCW 19.285 Percent of Qualifying MWh Allocated to WA Eligible MWh Available for RCW 19.285 Compliance Non REC Eligible Generation Extra Apprenticeship Credit Distributed Generation Bonus Total Quantity from Non REC Eligible Generation	2011 de 2005) - 2011 - - -	2012 3,462 100% 8% 276 2012 - -	2013 100% 134 2013 - - -	- 2014
Facility Name: JC Boyle (U MWh Allocated to WA Compliance Total MWh Produced / Purchased from JC Boyle (Upgrad Percent of MWh Qualifying Under RCW 19.285 Percent of Qualifying MWh Allocated to WA Eligible MWh Available for RCW 19.285 Compliance Non REC Eligible Generation Extra Apprenticeship Credit Distributed Generation Bonus Total Quantity from Non REC Eligible Generation REC Sales / Transfers	2011 de 2005) - 2011	2012 3,462 100% 8% 276 2012 -	2013 100% 134 2013 -	2014
Facility Name: JC Boyle (U MWh Allocated to WA Compliance Total MWh Produced / Purchased from JC Boyle (Upgrad Percent of MWh Qualifying Under RCW 19.285 Percent of Qualifying MWh Allocated to WA Eligible MWh Available for RCW 19.285 Compliance Non REC Eligible Generation Extra Apprenticeship Credit Distributed Generation Bonus Total Quantity from Non REC Eligible Generation	2011 de 2005) - 2011 - - -	2012 3,462 100% 8% 276 2012 - -	2013 100% 134 2013 - - -	- 2014
Facility Name: JC Boyle (U MWh Allocated to WA Compliance Total MWh Produced / Purchased from JC Boyle (Upgrad Percent of MWh Qualifying Under RCW 19.285 Percent of Qualifying MWh Allocated to WA Eligible MWh Available for RCW 19.285 Compliance Non REC Eligible Generation Extra Apprenticeship Credit Distributed Generation Bonus Total Quantity from Non REC Eligible Generation REC Sales / Transfers Quantity of RECs Sold Bonus Incentives Transferred Bonus Incentives Not Realized	2011 de 2005) - 2011 - 2011 - 2011	2012 3,462 100% 8% 276 2012 - - 2012	2013 100% 134 2013 - - 2013	- 2014
Facility Name:       JC Boyle (U         MWh Allocated to WA Compliance         Total MWh Produced / Purchased from JC Boyle (Upgrad         Percent of MWh Qualifying Under RCW 19.285         Percent of Qualifying MWh Allocated to WA         Eligible MWh Available for RCW 19.285 Compliance         Non REC Eligible Generation         Extra Apprenticeship Credit         Distributed Generation Bonus         Total Quantity from Non REC Eligible Generation         REC Sales / Transfers         Quantity of RECS Sold         Bonus Incentives Transferred	2011 de 2005) - 2011 - - -	2012 3,462 100% 8% 276 2012 - -	2013 100% 134 2013 - - -	- 2014
Facility Name: JC Boyle (U MWh Allocated to WA Compliance Total MWh Produced / Purchased from JC Boyle (Upgrad Percent of MWh Qualifying Under RCW 19.285 Percent of Qualifying MWh Allocated to WA Eligible MWh Available for RCW 19.285 Compliance Non REC Eligible Generation Extra Apprenticeship Credit Distributed Generation Bonus Total Quantity from Non REC Eligible Generation REC Sales / Transfers Quantity of RECs Sold Bonus Incentives Transferred Bonus Incentives Not Realized	2011 de 2005) - 2011 - 2011 - 2011	2012 3,462 100% 8% 276 2012 - - 2012	2013 100% 134 2013 - - 2013	- 2014
Facility Name: JC Boyle (U MWh Allocated to WA Compliance Total MWh Produced / Purchased from JC Boyle (Upgrad Percent of MWh Qualifying Under RCW 19.285 Percent of Qualifying MWh Allocated to WA Eligible MWh Available for RCW 19.285 Compliance Non REC Eligible Generation Extra Apprenticeship Credit Distributed Generation Bonus Total Quantity from Non REC Eligible Generation REC Sales / Transfers Quantity of RECs Sold Bonus Incentives Transferred Bonus Incentives Transferred Bonus Incentives Not Realized Total Sold / Transferred / Unrealized Adjustments 2011 Surplus Applied to 2012	2011 de 2005) - 2011 - 2011 - 2011 - 2011 -	2012 3,462 100% 8% 276 2012 - 2012 - 2012 - -	2013 100% 134 2013 - 2013 - 2013	2014 - - - 2014 - - 2014
Facility Name:       JC Boyle (U)         MWh Allocated to WA Compliance         Total MWh Produced / Purchased from JC Boyle (Upgrad         Percent of MWh Qualifying Under RCW 19.285         Percent of Qualifying MWh Allocated to WA         Eligible MWh Available for RCW 19.285 Compliance         Non REC Eligible Generation         Extra Apprenticeship Credit         Distributed Generation Bonus         Total Quantity from Non REC Eligible Generation         REC Sales / Transfers         Quantity of RECs Sold         Bonus Incentives Transferred         Bonus Incentives Not Realized         Total Sold / Transferred / Unrealized         Adjustments         2011 Surplus Applied to 2012         2011 Surplus Applied to 2011	2011 de 2005) - 2011 - 2011 - 2011 - 2011 -	2012 3,462 100% 8% 276 2012 - 2012 - 2012 - 2012	2013 100% 134 2013 - 2013 - 2013	2014 - - - - - 2014 - - -
Facility Name:       JC Boyle (U         MWh Allocated to WA Compliance         Total MWh Produced / Purchased from JC Boyle (Upgrad         Percent of MWh Qualifying Under RCW 19.285         Percent of Qualifying MWh Allocated to WA         Eligible MWh Available for RCW 19.285 Compliance         Non REC Eligible Generation         Extra Apprenticeship Credit         Distributed Generation Bonus         Total Quantity from Non REC Eligible Generation         REC Sales / Transfers         Quantity of RECs Sold         Bonus Incentives Transferred         Bonus Incentives Not Realized         Total Sold / Transferred / Unrealized         Adjustments         2011 Surplus Applied to 2012         2012 Surplus Applied to 2011         2012 Surplus Applied to 2013	2011 de 2005) - 2011 - 2011 - 2011 - 2011	2012 3,462 100% 8% 276 2012 - 2012 - 2012 - 2012	2013 100% 134 2013 - 2013 - 2013	2014 - - - - - 2014 - - -
Facility Name:       JC Boyle (U)         MWh Allocated to WA Compliance         Total MWh Produced / Purchased from JC Boyle (Upgrad         Percent of MWh Qualifying Under RCW 19.285         Percent of Qualifying MWh Allocated to WA         Eligible MWh Available for RCW 19.285 Compliance         Non REC Eligible Generation         Extra Apprenticeship Credit         Distributed Generation Bonus         Total Quantity from Non REC Eligible Generation         REC Sales / Transfers         Quantity of RECs Sold         Bonus Incentives Transferred         Bonus Incentives Not Realized         Total Sold / Transferred / Unrealized         Adjustments         2011 Surplus Applied to 2012         2011 Surplus Applied to 2011	2011 de 2005) - 2011 - 2011 - 2011 - 2011	2012 3,462 100% 8% 276 2012 - 2012 - 2012 - 2012 - 2012	2013 100% 134 2013 - 2013 - 2013	2014 - - - - - 2014 - - -
Facility Name:       JC Boyle (U)         MWh Allocated to WA Compliance         Total MWh Produced / Purchased from JC Boyle (Upgrad         Percent of MWh Qualifying Under RCW 19.285         Percent of Qualifying MWh Allocated to WA         Eligible MWh Available for RCW 19.285 Compliance         Non REC Eligible Generation         Extra Apprenticeship Credit         Distributed Generation Bonus         Total Quantity from Non REC Eligible Generation         REC Sales / Transfers         Quantity of RECs Sold         Bonus Incentives Transferred         Bonus Incentives Not Realized         Total Sold / Transferred / Unrealized         Adjustments         2011 Surplus Applied to 2012         2012 Surplus Applied to 2011         2012 Surplus Applied to 2013         2013 Surplus Applied to 2013	2011 de 2005) - 2011 - 2011 - 2011 - 2011	2012 3,462 100% 8% 276 2012 - 2012 - 2012 - 2012 - 2012	2013 100% 134 2013 - 2013 - 2013	2014 - - - - - 2014 - - -
Facility Name:       JC Boyle (U)         MWh Allocated to WA Compliance         Total MWh Produced / Purchased from JC Boyle (Upgrad         Percent of MWh Qualifying Under RCW 19.285         Percent of Qualifying MWh Allocated to WA         Eligible MWh Available for RCW 19.285 Compliance         Non REC Eligible Generation         Extra Apprenticeship Credit         Distributed Generation Bonus         Total Quantity from Non REC Eligible Generation         REC Sales / Transfers         Quantity of RECs Sold         Bonus Incentives Transferred         Bonus Incentives Not Realized         Total Sold / Transferred / Unrealized         Adjustments         2011 Surplus Applied to 2011         2012 Surplus Applied to 2013         2013 Surplus Applied to 2014         Net Surplus Adjustments	2011 de 2005) - 2011 - 2011 - 2011 - 2011 - 2011	2012 3,462 100% 8% 276 2012 - 2012 - 2012 - 2012 - 2012 - 2012	2013 100% 134 2013 - 2013 - 2013 - 2013	2014 - - - - - 2014 - - -
Facility Name:       JC Boyle (U         MWh Allocated to WA Compliance         Total MWh Produced / Purchased from JC Boyle (Upgrad         Percent of MWh Qualifying Under RCW 19.285         Percent of Qualifying WM Allocated to WA         Eligible MWh Available for RCW 19.285 Compliance         Non REC Eligible Generation         Extra Apprenticeship Credit         Distributed Generation Bonus         Total Quantity from Non REC Eligible Generation         REC Sales / Transfers         Quantity of RECs Sold         Bonus Incentives Transferred         Bonus Incentives Not Realized         Total Sold / Transferred / Unrealized         Adjustments         2011 Surplus Applied to 2011         2012 Surplus Applied to 2013         2013 Surplus Applied to 2014	2011 de 2005) - 2011 - 2011 - 2011 - 2011 - 2011	2012 3,462 100% 8% 276 2012 - 2012 - 2012 - 2012 - 2012 - 2012	2013 100% 134 2013 - 2013 - 2013 - 2013	- 2014

Facility Name: Lemolo 2	(Upgrade 2009)			
MWh Allocated to WA Compliance	2011	2012	2013	2014
Total MWh Produced / Purchased from Lemolo 2 (Up	grade 2009)	1,781		
Percent of MWh Qualifying Under RCW 19.285		100%	100%	
Percent of Qualifying MWh Allocated to WA		8%		
Eligible MWh Available for RCW 19.285 Compliance	-	142	100	-
Ion REC Eligible Generation	2011	2012	2013	2014
Extra Apprenticeship Credit	-	~	-	-
Distributed Generation Bonus		-	-	-
Total Quantity from Non REC Eligible Generation	-		-	-
EC Sales / Transfers	2011	2012	2013	2014
Quantity of RECs Sold				
Bonus Incentives Transferred				
Bonus Incentives Not Realized				
Total Sold / Transferred / Unrealized			-	-
Total 300 / Transferred / Officalized				
djustments	2011	2012	2013	2014
2011 Surplus Applied to 2012		-		
2012 Surplus Applied to 2011	-			
2012 Surplus Applied to 2013			-	
2013 Surplus Applied to 2012		-		
2013 Surplus Applied to 2014			l	-
Net Surplus Adjustments	-	-	-	-
Adjustment for Events Beyond Control				
		142	100	
Contribution to RCW 19.285 Compliance	-	142		
	erine Creek			
acility Name: Wolve				2014
acility Name: Wolve	2011	2012	2013	2014
acility Name: Wolve	2011			2014
acility Name: Wolve 1Wh Allocated to WA Compliance Total MWh Produced / Purchased from Wolverine Cr	2011		2013	
acility Name: Wolve Wh Allocated to WA Compliance Total MWh Produced / Purchased from Wolverine Cr Percent of MWh Qualifying Under RCW 19.285	2011 eek		2013	
Acility Name: Wolve Wh Allocated to WA Compliance Total MWh Produced / Purchased from Wolverine Cr Percent of MWh Qualifying Under RCW 19.285 Percent of Qualifying MWh Allocated to WA Eligible MWh Available for RCW 19.285 Compliance	2011 eek		2013	
acility Name: Wolve Wh Allocated to WA Compliance Total MWh Produced / Purchased from Wolverine Cr Percent of MWh Qualifying Under RCW 19.285 Percent of Qualifying MWh Allocated to WA Eligible MWh Available for RCW 19.285 Compliance	2011 eek	2012	2013	100%
acility Name: Wolve Wh Allocated to WA Compliance Total MWh Produced / Purchased from Wolverine Cr Percent of MWh Qualifying Under RCW 19.285 Percent of Qualifying MWh Allocated to WA Eligible MWh Available for RCW 19.285 Compliance Ion REC Eligible Generation Extra Apprenticeship Credit	2011 eek	2012	2013 100%	100%
acility Name: Wolve Wh Allocated to WA Compliance Total MWh Produced / Purchased from Wolverine Cr Percent of MWh Qualifying Under RCW 19.285 Percent of Qualifying MWh Allocated to WA Eligible MWh Available for RCW 19.285 Compliance Non REC Eligible Generation	2011 eek	2012 	2013 100% 2013 -	100% 2014
Facility Name:       Wolve         MWh Allocated to WA Compliance       Total MWh Produced / Purchased from Wolverine Cr         Percent of MWh Qualifying Under RCW 19.285       Percent of Qualifying MWh Allocated to WA         Eligible MWh Available for RCW 19.285 Compliance       Percent of Qualifying MWh Allocated to WA         Eligible MWh Available for RCW 19.285 Compliance       Percent of Qualifying MWh Allocated to WA         Eligible MWh Available for RCW 19.285 Compliance       Percent of Qualifying MWh Allocated to WA         Eligible Generation       Extra Apprenticeship Credit         Distributed Generation Bonus       Total Quantity from Non REC Eligible Generation	2011 eek	2012 	2013 100% 2013 -	2014
acility Name: Wolve Wh Allocated to WA Compliance Total MWh Produced / Purchased from Wolverine Cr Percent of MWh Qualifying Under RCW 19.285 Percent of Qualifying MWh Allocated to WA Eligible MWh Available for RCW 19.285 Compliance Non REC Eligible Generation Extra Apprenticeship Credit Distributed Generation Bonus Total Quantity from Non REC Eligible Generation EC Sales / Transfers	2011 eek 	2012 - 2012 - - - - -	2013 100% 2013 - - -	2014 - - -
acility Name: Wolve Wh Allocated to WA Compliance Total MWh Produced / Purchased from Wolverine Cr Percent of MWh Qualifying Under RCW 19.285 Percent of Qualifying MWh Allocated to WA Eligible MWh Available for RCW 19.285 Compliance Non REC Eligible Generation Extra Apprenticeship Credit Distributed Generation Bonus Total Quantity from Non REC Eligible Generation EC Sales / Transfers Quantity of RECs Sold	2011 eek 	2012 - 2012 - - - - -	2013 100% 2013 - - -	2014 - - -
acility Name: Wolve Wh Allocated to WA Compliance Total MWh Produced / Purchased from Wolverine Cr Percent of MWh Qualifying Under RCW 19.285 Percent of Qualifying MWh Allocated to WA Eligible MWh Available for RCW 19.285 Compliance on REC Eligible Generation Extra Apprenticeship Credit Distributed Generation Bonus Total Quantity from Non REC Eligible Generation EC Sales / Transfers Quantity of RECs Sold Bonus Incentives Transferred	2011 eek 	2012 - 2012 - - - - -	2013 100% 2013 - - -	2014 - - -
acility Name: Wolve Wh Allocated to WA Compliance Total MWh Produced / Purchased from Wolverine Cr Percent of MWh Qualifying Under RCW 19.285 Percent of Qualifying MWh Allocated to WA Eligible MWh Available for RCW 19.285 Compliance on REC Eligible Generation Extra Apprenticeship Credit Distributed Generation Bonus Total Quantity from Non REC Eligible Generation EC Sales / Transfers Quantity of RECs Sold	2011 eek 	2012 - 2012 - - - - -	2013 100% 2013 - - -	2014 - - -
Acility Name: Wolve Wh Allocated to WA Compliance Total MWh Produced / Purchased from Wolverine Cr Percent of MWh Qualifying Under RCW 19.285 Percent of Qualifying MWh Allocated to WA Eligible MWh Available for RCW 19.285 Compliance On REC Eligible Generation Extra Apprenticeship Credit Distributed Generation Bonus Total Quantity from Non REC Eligible Generation EC Sales / Transfers Quantity of RECs Sold Bonus Incentives Transferred Bonus Incentives Not Realized Total Sold / Transferred / Unrealized	2011 eek	2012 - 2012 - 2012 - 2012 - -	2013 100% 2013 - - 2013 - -	2014 - - 2014 - - 2014 -
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acility Name: Wolve Wh Allocated to WA Compliance Total MWh Produced / Purchased from Wolverine Cr Percent of MWh Qualifying Under RCW 19.285 Percent of Qualifying MWh Allocated to WA Eligible MWh Available for RCW 19.285 Compliance on REC Eligible Generation Extra Apprenticeship Credit Distributed Generation Bonus Total Quantity from Non REC Eligible Generation EC Sales / Transfers Quantity of RECs Sold Bonus Incentives Transferred Bonus Incentives Not Realized Total Sold / Transferred / Unrealized djustments 2011 Surplus Applied to 2012	2011 eek	2012 - 2012 - 2012 - 2012 - -	2013 100% 2013 - - 2013 - -	2014 - - 2014 - - 2014 -
acility Name: Wolve Wh Allocated to WA Compliance Total MWh Produced / Purchased from Wolverine Cr Percent of MWh Qualifying Under RCW 19.285 Percent of Qualifying MWh Allocated to WA Eligible MWh Available for RCW 19.285 Compliance on REC Eligible Generation Extra Apprenticeship Credit Distributed Generation Bonus Total Quantity from Non REC Eligible Generation EC Sales / Transfers Quantity of RECs Sold Bonus Incentives Transferred Bonus Incentives Not Realized Total Sold / Transferred / Unrealized djustments 2011 Surplus Applied to 2012 2012 Surplus Applied to 2011	2011 eek	2012 - 2012 - 2012 - 2012 - 2012	2013 100% 2013 - - 2013 - -	2014 - - 2014 - - 2014 -
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acility Name: Wolve Wh Allocated to WA Compliance Total MWh Produced / Purchased from Wolverine Cr Percent of MWh Qualifying Under RCW 19.285 Percent of Qualifying MWh Allocated to WA Eligible MWh Available for RCW 19.285 Compliance Ion REC Eligible Generation Extra Apprenticeship Credit Distributed Generation Bonus Total Quantity from Non REC Eligible Generation EC Sales / Transfers Quantity of RECs Sold Bonus Incentives Transferred Bonus Incentives Not Realized Total Sold / Transferred / Unrealized djustments 2011 Surplus Applied to 2012 2012 Surplus Applied to 2011 2013 Surplus Applied to 2013 2013 Surplus Applied to 2013 2013 Surplus Applied to 2012	2011 eek	2012 - 2012 - 2012 - 2012 - 2012	2013 100% 2013 - - 2013 - -	2014 - - 2014 - - 2014 -
Facility Name:       Wolve         AWh Allocated to WA Compliance       Total MWh Produced / Purchased from Wolverine Cr         Percent of MWh Qualifying Under RCW 19.285       Percent of Qualifying Under RCW 19.285         Percent of Qualifying MWh Allocated to WA       Eligible MWh Available for RCW 19.285         Con REC Eligible Generation       Extra Apprenticeship Credit         Distributed Generation Bonus       Total Quantity from Non REC Eligible Generation         REC Sales / Transfers       Quantity of RECs Sold         Bonus Incentives Transferred       Bonus Incentives Not Realized         Total Sold / Transferred / Unrealized       Xdjustments         2011 Surplus Applied to 2011       2012 Surplus Applied to 2013         2013 Surplus Applied to 2012       2013 Surplus Applied to 2013         2013 Surplus Applied to 2014       2014	2011 eek	2012 - 2012 - - 2012 - - 2012 - 2012 -	2013 100% 2013 - - 2013 - -	2014 - - 2014 - - 2014
acility Name:       Wolve         MWh Allocated to WA Compliance       Total MWh Produced / Purchased from Wolverine Or Percent of MWh Qualifying Under RCW 19.285         Percent of Qualifying MWh Allocated to WA       Eligible MWh Available for RCW 19.285         Con REC Eligible Generation       Extra Apprenticeship Credit         Distributed Generation Bonus       Total Quantity from Non REC Eligible Generation         EEC Sales / Transfers       Quantity of RECs Sold         Bonus Incentives Transferred       Bonus Incentives Not Realized         Total Sold / Transferred / Unrealized       2011 Surplus Applied to 2012         2011 Surplus Applied to 2011       2012 Surplus Applied to 2013         2013 Surplus Applied to 2013       2013 Surplus Applied to 2013	2011 eek	2012 - 2012 - - 2012 - - 2012 - 2012 -	2013 100% 2013 - - 2013 - -	2014 - - 2014 - - 2014 -
acility Name:       Wolve         MWh Allocated to WA Compliance       Total MWh Produced / Purchased from Wolverine Cr         Percent of MWh Qualifying Under RCW 19.285       Percent of Qualifying MWh Allocated to WA         Eligible MWh Available for RCW 19.285       Compliance         Non REC Eligible Generation       Extra Apprenticeship Credit         Distributed Generation Bonus       Total Quantity from Non REC Eligible Generation         EEC Sales / Transfers       Quantity of RECs Sold         Bonus Incentives Transferred       Bonus Incentives Transferred         Bonus Incentives Not Realized       Total Sold / Transferred / Unrealized         cdjustments       2011 Surplus Applied to 2011         2012 Surplus Applied to 2013       2013 Surplus Applied to 2012         2013 Surplus Applied to 2012       2013 Surplus Applied to 2014	2011 eek	2012 - 2012 - - 2012 - - 2012 - 2012 -	2013 100% 2013 - - 2013 - -	2014 - - 2014 - - 2014 -

# **Compliance Contribution by Generation Type**

	2011	2012	2013
Wind	(0)	117,079	118,483
Solar		-	-
Water (Incremental Hydro)	-	2,778	2,234
Biomass	-	-	-
Geothermal	-	-	-
Landfill Gas	-	-	-
Sewage Treatment Gas	-	-	-
Wave, Ocean, Tidal	-	-	-
Biodiesel Fuel	-	-	-

PacifiCorp Annual Report Requirements RCW 19.285.070 Washington Renewable Report May 31, 2013

# Attachment B

# Description of Methodology for Calculating Incremental Hydro for Company Owned Hydro Electric Projects



#### Attachment B Description of Hydroelectric Efficiency Analysis

The incremental hydro generation resulting from efficiency gains from hydropower upgrades were calculated using the same method that PacifiCorp submitted to the Oregon Department of Energy for certification of PacifiCorp's facilities as eligible for the Oregon Renewable Portfolio Standard program.

Historical hourly generation data for the period 2007 through 2010 was collected for each unit that was upgraded. Each hour of generation was modified to create two additional hourly profiles representing the efficiency of the unit before and after the upgrade. The hourly pre- and post- efficiency values were based on curves developed from the unit index tests or manufacturer-provided theoretical curves. Efficiency gain for each hour was calculated by taking the difference between the new and old efficiency value and dividing it by the old efficiency value. This gain was then multiplied by the post upgrade generation value to produce an incremental megawatt-hour gain. The initial calculated incremental gain was subtracted from the pre/post upgraded generation profiles to exclude the generation associated with the upgrade.

Generation improvements were calculated for every instance when efficiency improvements were positive including those periods when the unit was ramping up to maximum efficiency. In some cases, portions of the post efficiency upgrade curve are less than the pre upgrade curve. In instances that the efficiency gain was negative, generation was not included in the calculation. Further, since in some cases the post upgrade curve extended beyond the pre upgrade curve (i.e. the new turbine had a higher generation capacity) generation improvements were capped at the point when flows on the pre and post upgrade curve were equal.