# Oregon Public Utility Commission

### e-FILING REPORT COVER SHEET

COMPANY NAME: PacifiCorp d/b/a Pacific Power
DOES REPORT CONTAIN CONFIDENTIAL INFORMATION? No Yes If yes, submit a redacted public version (or a cover letter) by email. Submit the confidential information as directed in OAR 860-001-0070 or the terms of an applicable protective order.
Select report type: RE (Electric) RG (Gas) RW (Water) RT (Telecommunications) RO (Other, for example, industry safety information)
Did you previously file a similar report? No Yes, report docket number: RE 181
Report is required by:  Statute  Order  Note: A one-time submission required by an order is a compliance filing and not a report (file compliance in the applicable docket)  Other  (For example, federal regulations, or requested by Staff)
Is this report associated with a specific docket/case? No Yes, docket number: UM 1893
List Key Words for this report. We use these to improve search results.
OAR 860-030-0011, 2021 Energy Efficiency Avoided Cost Report
Send the completed Cover Sheet and the Report in an email addressed to <a href="PUC.FilingCenter@state.or.us">PUC.FilingCenter@state.or.us</a>
Send confidential information, voluminous reports, or energy utility Results of Operations Reports to PUC Filing Center, PO Box 1088, Salem, OR 97308-1088 or by delivery service to 201 High Street SE Suite 100, Salem, OR 97301.



October 15, 2021

### **VIA ELECTRONIC FILING**

Public Utility Commission of Oregon Attn: Filing Center 201 High Street SE, Suite 100 Salem, OR 97301-3398

RE: RE 181—PacifiCorp's 2021 Energy Efficiency Avoid Cost Report

In accordance with Oregon Administrative Rule 860-030-011(1), PacifiCorp d/b/a Pacific Power encloses for filing its 2021 Energy Efficiency Avoided Cost Report.

If you have questions about this filing, please contact Cathie Allen, Regulatory Affairs Manager, at (503) 813-5934.

Sincerely,

Shelley McCoy

Director, Regulation

Shilling McCory

### **Energy Efficiency Avoided Cost Submission Template - Electric**

**Utility Name: PacifiCorp** 

**Submission Date: 10/15/2021** 

### **Instructions and Definitions**

- <> Please fill out this workbook completely and per the instructions and submit via electronic filing to docket UM 1893. Submissions are due October 15 of each year.
- Inputs will be reviewed and approved by the OPUC before being sent to the Energy Trust of Oregon for use in Avoided Cost development
- Provide as much detail as possible when sourcing data inputs, including the link to the source (if available), page number and table or graph number
  This will increase the efficiency of this process and require less iteration during the OPUC review period

Required pages 1,2,3,4 refer to data presented in the most recently acknowledged IRP, IRP Update, or General Rate Case unless otherwise noted.

### 1) Global Inputs - IRP

- <> Most components of the avoided costs are input into this tab including inflation/discount rates, line losses, risk reduction values, T&D deferral values, and generation deferral values
- <> Identify the winter & summer peak periods for Transmission and Distribtution. The Generation LOLP Map will be utilized for generation peak definitions.
- <> If necessary, Energy Trust will work with each utility about sector definitions for T&D for which values to provide for Res, Com, and Ind
- <> Ensure that the dollar years of the data inputs match the source Energy Trust will inflate to the proper year
- <> Please provide the values in the most recently acknowledged IRP

### 2) Forward Market Prices - IRP

- <> Provide forward market price forecast by month for both high load hours and low load hours
- <> Please provide the dollar amount of these prices that is associated with carbon costs (or %). If it is a dollar value, this is a subset of the total prices provided The total forward market prices should be the FULL price, including carbon
- <> Indicate if the forecast is in nominal or real dollars (and what dollar year if real)
- <> Please provide the values in the most recently acknowledged IRP

### 3) LOLP - IRP

- Input a 12x24 Loss of Load Probability heat map per the example in the worksheet
- These will be potentially utilized in future iterations of avoided cost updates pending outcome of UM1893
- <> Include heat maps for all days, weekdays only, and weekends only
- <> Please provide the values in the most recently acknowledged IRP

### 4) RPS Compliance - IRP

- <> Input RPS compliance costs by year
- <> Please provide the values in the most recently acknowledged IRP

### 1a, 2a, 3a, 4a) Alternative Submissions

- <> Use these worksheets to provide alternative values to the most recently acknowledged IRP values
- <> Provide a rationale for submitting the alternative values in the box provided at the top of each alternative worksheet
- If a second set of alternative values is submitted, simply copy the alt tabs necessary and rename to 1b, alt 2 in the tab name

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Global Assu	•			Provide as much d	letail as possible with sourcing inc	cluding a link. Ensure that dollar	years listed here are the same as the source.	
Avoided Cost Element	Units	Value	Dollar Year	Source	Source Page #	Table # (if applicable)	Source Link or File Name	Source Notes
Inflation Rate	Percent	2.28%	N/A	PacifiCorp 2019 IRP	Vol. 1: pg. 179		https://www.pacificorp.com/content/da m/pcorp/documents/en/pacificorp/ener gy/integrated-resource- plan/2019 IRP Volume I.pdf	Sep. 2018 forecast
illiadon kate	reiteilt	2.20%	N/A	Facility 2013 NV	voi. 1. pg. 173		https://www.pacificorp.com/content/da m/pcorp/documents/en/pacificorp/ener gy/integrated-resource-	Calculated from inflation and nominal discount
Real Discount Rate	Percent	4.54%	N/A	PacifiCorp 2019 IRP	Vol. 1: pg. 179		plan/2019 IRP_Volume_I.pdf	rates
Regional Act Credit	Percent	10.00%	N/A			1	T	
negional viet er eat	rereene	10.0070	1.4/					
Transmission Loss Factor	Percent	3.50%	N/A	PacifiCorp's most recent class-level line losses are from its 2018 Loss Study published in 2020.				
Distribution Loss Factor, Commercial	Percent	3.69%	N/A	2018 Loss Study, incremental to transmission losses. Reflects proportion of the class interconnected at each voltage level.				
Distribution Loss Factor, Industrial	Percent	3.20%	N/A	2018 Loss Study, incremental to transmission losses. Reflects proportion of the class interconnected at each voltage level.				
Distribution Loss Factor, Residential	Percent	4.46%	N/A	2018 Loss Study, incremental to transmission losses. Reflects proportion of the class interconnected at each voltage level.				
		1						
Risk Reduction Value	\$/MWh	\$3.88	2018	PacifiCorp 2019 IRP	Vel Line 164		https://www.pacificorp.com/content/da m/pcorp/documents/en/pacificorp/ener gy/integrated-resource- plan/2019 IRP Volume Lpdf	Nominal-levelized value from 2019 IRP is converted to real-levelized input. Risk reduction value for EE selections calculated using IRP models. The difference in present-value revenue requirement (PVRRd) between stochastic studies and deterministic studies with and without energy efficiency, divided by the net present value of the energy efficiency savings (MWh) yields the \$/MWh assumed value of stochastic fisk reduction.
RISK REduction Value	\$/IVIWN	\$3.88	2018	Pacificorp 2019 IRP	Vol. 1: pg. 164		pian/2019 IRP Volume I.pdi	assumed value of stochastic risk reduction.
Transmission Deferral Credit	\$/kW-yr	\$4.16		PacifiCorp 2019 IRP	Vol. 1: pg. 165	Table 6.8	https://www.pacificorp.com/content/da m/pcorp/documents/en/pacificorp/ener gy/integrated-resource- plan/2019 IRP Volume I.pdf	Transmission capacity cost accounts for the cost, capacity, and carrying charges associated with planned transmission capacity increase projects.
Seasonal Capacity Split - Summer	Percent Percent	48.46% 51.54%	N/A N/A	Analysis for 7/18/2019 RVOS Compliance Filing in UM-1910				
Seasonal Capacity Split - Winter Summer Peak Period Definition		Trans. 12x24 profile		Analysis for 7/18/2019 RVOS Compliance Filing in UM-1910 Analysis for 7/18/2019 RVOS Compliance Filing in UM-1910				Day is intended to be weekday or weekend
Winter Peak Period Definition		Trans. 12x24 profile	N/A	Analysis for 7/18/2019 RVOS Compliance Filing in UM-1910				Day is intended to be weekday or weekend
Deficiency start year	Year	2018	N/A	2019 IRP Assumption: T&D EE credit applied from first year of study				
Distribution Deferral Credit	\$/kW-yr	\$9.20	2018	PacifiCorp 2019 IRP	Vol. 1: pg. 165	Table 6.8	https://www.pacificorp.com/content/da m/pcorp/documents/en/pacificorp/ener gy/integrated-resource-plan/2019- irp/2019-irp-presentations-and- schedule/2018-08-30-31%20- %20General%20Public%20Meeting.pdf	Distribution capacity cost accounts for the cost, capacity, and carrying charges associated with planned distribution capacity increase projects, as well as current distribution utilization. Details were provided in the August 30-31, 2018 public input meeting, silie 2
Seasonal Capacity Split - Summer	Percent	57.29%	N/A	Analysis for 7/18/2019 RVOS Compliance Filing in UM-1910				
Seasonal Capacity Split - Winter Summer Peak Period Definition	Percent Month/D	42.71% Dist. 12x24 profile	N/A N/A	Analysis for 7/18/2019 RVOS Compliance Filing in UM-1910 Analysis for 7/18/2019 RVOS Compliance Filing in UM-1910				Day is intended to be weekday or weekend
Winter Peak Period Definition	Month/D		N/A	Analysis for 7/18/2019 RVOS Compliance Filing in UM-1910 Analysis for 7/18/2019 RVOS Compliance Filing in UM-1910				Day is intended to be weekday or weekend  Day is intended to be weekday or weekend
Deficiency start year	Year	2018	N/A	2019 IRP Assumption: T&D EE credit applied from first year of study				,
							https://www.pacificorp.com/content/da	
Generation Capacity Credit	\$/kW-yr	\$83.76	2018	Simple Cycle Combustion Turbine, Frame F, 6500', Naughton Brownfield. 2019 IRP Supply Side Table, Table 6.2 on page 138  2019 IRP LOLP Data, June - September events. Results are discussed in	Vol. 1: pg. 138	6.2	m/pcorp/documents/en/pacificorp/ener gy/integrated-resource-	
Seasonal Capacity Split - Summer	Percent	92.0%	N/A	2019 IRP Volume II, Appendix N.			P Volumell 2017 IRP Final.pdf	
Seasonal Capacity Split - Winter	Percent	8.0%	N/A	2019 IRP LOLP Data, October - May events				
Deficiency start year	Year	2026	i N/A	From Standard QF AC effective 2020 08 26 (update following 2019 IRP acknowledgment), pg. 6.	6		https://www.pacificpower.net/content/ dam/pacific power/doc/About Us/Rate s. Regulation/Oregon/Approved Tariffs/ PURPA Power Source Agreement/Stan dard Avoided Cost Rates Avoided Cos t. Purchases From Eligible Qualifying F acilities.pdf	
- companie part	,						, <del></del>	
RPS Compliance Cost			N/A					
Avoided RPS Compliance Obligation	%	see annual table	N/A					

6.92%

### **Forward Price Inputs**

		_
Real or Nominal?	Nominal	
Dollar Year:	n/a	
Carbon Prices Additive?	Embedded in Market I	Prices
Carbon Value Units (\$/MWh	\$/Ton	
	Sept. 2018 Medium G	as/Medium CO2 electricity market prices
Source and Pg #:	used in 2019 IRP. 2019	9 IRP Vol I, p. 180-182.
	2019 IRP public data d	isk: \Assumptions + Inputs\Price Curve\
Source Link or File Name:	MedGas_2025MCO2.1	L0.09.18.xlsx
Source Notes:	Data for 2041+ escalat	ed at inflation

### NOTES:

Please provide notes as to how this value relates to forward market prices. It can be expressed as a percentage of forward market prices, a set \$/MWh, or \$/ton. Please identify the units in the box to the left

PacifiCorp's 2019 IRP does not include a carbon emissions rate or cost on top of the market price for electricity.

	1			HLH Carbon Cost (OR % of HLH Price that	LLH Carbon Cost (OR % of LLH Price that
Year	Date	HLH Total (\$/MWh)	LLH Total (\$/MWh)	accounts for Carbon?)	accounts for Carbon?)
203			25.25	-	-
200			23.62	-	-
203			20.29	-	-
203			14.58	-	-
203	21 5/1/2021	20.39	12.43	-	-
203	21 6/1/2021	20.50	12.10	-	-
203			24.66	-	-
203		47.72	29.30	-	-
203			28.22	-	-
203			22.98	-	-
203			24.55	-	-
203			26.45	-	-
203			27.69	-	-
203			27.30	-	-
203			23.70	-	-
203			21.04	-	-
203			17.63	-	-
203			14.20	-	-
203			27.49	-	-
203			32.36	-	-
203			32.49	-	-
203			26.76	-	-
203			27.94	-	-
203			29.68	-	-
203			29.76	-	-
203			30.48	-	-
203			26.80	-	-
200			29.76	-	-
203			22.83	-	-
203			17.26	-	-
203			29.82	-	-
203			34.76	-	-
203			34.01	-	-
20:			30.53	-	-
203		36.32	32.50	-	-
20:			32.96	-	-
20:		41.90	33.70	-	-
20:		41.08	32.78	-	-
20:			29.58	<u>-</u>	-
20:		34.49	28.79	-	-
20:		31.37	25.85	-	-
20:		30.27	19.28	<u>-</u>	-
20:		51.29	32.90	-	-
20:		59.01	39.94	-	-
20:			40.58	-	-
20:			35.54	-	-
20:		38.08	31.23	-	-
20:		42.72	34.40	-	<u>.</u>
203	25 1/1/2025	45.26	41.83	9.93	9.93

### Loss of Load Probability Heat Map Input

NOTE: This is utilitized for generation deferrals only.

Source and page 8: 2019 IRP: CONF Data disk, Chapters + Appendix, Appendix N - Capacity Contribution Study urce Link or File Manne PASCHW Contribution, 2019 10 07 FINAL CONF six, tab LOJP, col CCCD

Source Notes: The LOLP data from the 2019 IRP was prepared at the end of the IRP process, based on a portfolio comparable to the 2019 IRP preferred portfolio.

WEEKDAYS	g,	WEEKENDS	

Count	31	28	31	30	31	30	31	31	30	31	30	31
Hr Ending	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.08	0.00	0.00	0.00	0.00
19	0.01	0.00	0.00	0.00	0.00	0.01	0.05	0.17	0.00	0.00	0.00	0.01
20	0.01	0.00	0.00	0.00	0.00	0.01	0.09	0.17	0.00	0.00	0.00	0.01
21	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.11	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

EEKDAY	SONLY											
unt	31											
	Jan	Feb	Mar	Apr	May	Jun		Aug	Sep	Oct	Nov	Dec
1		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
٤		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14		0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00
15		0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.00	0.00	0.00	0.00
16		0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00
17		0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
18		0.00	0.00	0.00	0.00	0.00	0.01	0.08	0.00	0.00	0.00	0.00
19		0.00	0.00	0.00	0.00	0.01	0.05	0.16	0.00	0.00	0.00	0.01
20		0.00	0.00	0.00	0.00	0.01	0.09	0.15	0.00	0.00	0.00	0.01
21		0.00	0.00	0.00	0.00	0.00	0.06	0.11	0.00	0.00	0.00	0.00
22		0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00
23		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

WEEKENE												
Count	31											
	Jan	Feb	Mar	Apr	May	Jun		Aug	Sep	Oct	Nov	Dec
	1 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	2 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	7 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	9 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	1 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	2 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	3 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	4 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	5 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	6 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	7 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	8 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
1	9 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00
2	1 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
_												

### EXAMPLE

Count	31	28	31	30	31	30	31	31	30	31	30	31
Hr Ending	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.01	0.06	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.02	0.07	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.04	0.01	0.01	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.06	0.01	0.01	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.07	0.01	0.01	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.08	0.01	0.01	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.05	0.01	0.01	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.04	0.03	0.01	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.01	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.01	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.01	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

## RPS Compliance Inputs IRP

Real or Nominal?	Nominal	
Dollar Year:		
Source and Pg #:	2019 IRP Vol. 1, pg. 253	
Source Link or File Name:	https://www.pacificorp.com/conter rgy/integrated-resource-plan/2019_	nt/dam/pcorp/documents/en/pacificorp/ene _IRP_Volume_I.pdf
Source Notes:	renewable resources and transmiss 2019 IRP Preferred Portfolio does n	through 2038 with the addition of new ion in the 2019 IRP preferred portfolio. The ot include any renewable resources added The cost-effective renewables in the PS alternatives.

RPS Compliance Cost (\$/MWh)		ompliance Obligation (%)
2021	0	20%
2022	0	20%
2023	0	20%
2024	0	20%
2025	0	27%
2026	0	27%
2027	0	27%
2028	0	27%
2029	0	27%
2030	0	35%
2031	0	35%
2032	0	35%
2033	0	35%
2034	0	35%
2035	0	45%
2036	0	45%
2037	0	45%
2038	0	45%
2039		45%
2040		50%
2041		50%
2042		50%
2043		50%
2044		50%
2045		50%
2046		50%
2047		50%
2048		50%
2049		50%
2050		50%

### Alternative Submissions PacifiCorp is not p

Rationale for alternative submission: PacifiCorp's 2021 IRP reflects the most up-to-date information, unlike its most recently acknowledged 2019 IRP, which generally reflects inputs compiled in 2018. PacifiCorp is not proposing alternative inputs for items shaded GRAY.

Global A	Assumptions In	nuts				SOURCING		
			D-II V		s possible with sourcing including			
Avoided Cost Element	Units	Value	Dollar Year	Source	Source Page #	Table # (if applicable)	Source Link or File Name	Source Notes
							https://www.pacificorp.co	
							m/content/dam/pcorp/doc	
							uments/en/pacificorp/ene	
							gy/integrated-resource-	•
							plan/2021-	
							irp/Volume%20I%20-	
nflation Rate	Percent	2.155%	N/A	PacifiCorp 2021 IRP	Vol. 1: pg. 226		%209.15.2021%20Final.pdf	Sep. 2020 forecast
notion note	rerecite	2.13370	14,71	Total Corp 2022 Mil	Voi. 1. pg. 220		70E03.13.E0E170E01 man.pai	3cp. 2020 forcease
							https://www.pacificorp.co	
							m/content/dam/pcorp/doc	
							uments/en/pacificorp/ene	
							gy/integrated-resource-	
							plan/2021-	
							irp/Volume%20I%20-	Calculated from inflation and nominal discount
eal Discount Rate	Percent	4.63%	N/A	PacifiCorp 2021 IRP	Vol. 1: pg. 226		%209.15.2021%20Final.pdf	
al Discourie Nate	reiteilt	4.03%	JIN/A		voi. 1. pg. 220			
gional Act Credit	Percent		N/A					
	la .		N/A					
ansmission Loss Factor stribution Loss Factor, Commercial	Percent Percent		N/A N/A					
istribution Loss Factor, Commercial	Percent		N/A N/A					
stribution Loss Factor, Residential	Percent		N/A					
								Nominal-levelized value from 2021 IRP is
								converted to real-levelized input. Risk reduction
							1	
							https://wwwf	value for EE selections calculated using IRP models. The difference in present-value revenue
							https://www.pacificorp.co	
							m/content/dam/pcorp/doo	requirement (PVRRd) between stochastic studies
							uments/en/pacificorp/ene	and deterministic studies with and without energy
							gy/integrated-resource-	efficiency, divided by the net present value of the
				n ://c			plan/2019_IRP_Volume_I.p	energy efficiency savings (MWh) yields the \$/MWh
sk Reduction Value	\$/MWh	\$3.05	2021	PacifiCorp 2021 IRP	Vol. 1: pg. 211		dt	assumed value of stochastic risk reduction.
	T							
							https://www.pacificorp.co	
							m/content/dam/pcorp/doc	
							uments/en/pacificorp/ener	
							gy/integrated-resource-	
							plan/2021-	
							irp/Volume%20I%20-	
ansmission Deferral Credit	\$/kW-yr	\$6.34	2020	PacifiCorp 2021 IRP	Vol. 1: pg. 211	Table 7.10	%209.15.2021%20Final.pdf	
easonal Capacity Split - Summer	Percent	38.75%	N/A	PacifiCorp 2021 IRP	Support for Appendix N - Ener		ti 2021 IRP T&D 12x24 CONF	2021 08 29.xlsx
easonal Capacity Split - Winter	Percent	61.25%	N/A	PacifiCorp 2021 IRP	Support for Appendix N - Ener			
ımmer Peak Period Definition	Month/Day/Hour		N/A	PacifiCorp 2021 IRP	Support for Appendix N - Ener	gy Storage Potential Evalua	ti 2021 IRP T&D 12x24 CONF	Day is intended to be weekday or weekend
inter Peak Period Definition	Month/Day/Hour	Trans. 12x24 profile	N/A	PacifiCorp 2021 IRP	Support for Appendix N - Ener	gy Storage Potential Evalua	ti 2021 IRP T&D 12x24 CONF	Day is intended to be weekday or weekend
eficiency start year	Year	2021	N/A	2021 IRP Assumption: T&D EE credit applied from first year of study				
cricicity start year	real	2021	1:4/0	1	1	1	1	
							https://www.pacificorp.co	
							m/content/dam/pcorp/doo	
							uments/en/pacificorp/ene	[
							gy/integrated-resource-	
							plan/2021-	
	1.						irp/Volume%201%20-	
stribution Deferral Credit	\$/kW-yr	\$13.38		PacifiCorp 2021 IRP	Vol. 1: pg. 211	Table 7.10	%209.15.2021%20Final.pdf	
asonal Capacity Split - Summer	Percent	89.55%	N/A	PacifiCorp 2021 IRP	Support for Appendix N - Ener			
asonal Capacity Split - Winter	Percent	10.45%	N/A	PacifiCorp 2021 IRP	Support for Appendix N - Ener			
mmer Peak Period Definition	Month/Day/Hour	Dist. 12x24 profile	N/A	PacifiCorp 2021 IRP PacifiCorp 2021 IRP				Day is intended to be weekday or weekend
inter Peak Period Definition	Month/Day/Hour	Dist. 12x24 profile	N/A	racinculp 2021 IKP	support for Appendix N - Ener	gy Storage Potential Evalua	LI ZUZI IKP 1&D 12x24 CONF	Day is intended to be weekday or weekend
	Year	2021	N/A	2021 IRP Assumption: T&D EE credit applied from first year of study				
ficiency start year								
			2018	2024 102 102 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1				
,	\$/kW-yr				1	1	1	į l
eneration Capacity Credit		02 700/	NI/A	2021 IRP LOLP Data, June - September events. Results are discussed in 2021 IRP Volume II. Appendix K				
eficiency start year  eneration Capacity Credit  easonal Capacity Split - Summer	Percent	82.78%	N/A	in 2021 IRP Volume II, Appendix K.				
eneration Capacity Credit easonal Capacity Split - Summer easonal Capacity Split - Winter	Percent Percent	82.78% 17.22%	N/A					
eneration Capacity Credit easonal Capacity Split - Summer easonal Capacity Split - Winter	Percent			in 2021 IRP Volume II, Appendix K.				
eneration Capacity Credit easonal Capacity Split - Summer	Percent Percent		N/A	in 2021 IRP Volume II, Appendix K.				

Alternative	Rationale for alternative submission:
	The prices in PacifiCorp's acknowledged 2019 IRP are from September 2018 and are now more than three years out of date. The alternative prices reflect the
Submissions	medium gas, medium CO2 pricing from PacifiCorp's 2021 IRP, which reflect March 2021 inputs.

### **Forward Price Inputs**

Real or Nominal?	Nominal	
Dollar Year:	n/a	
Carbon Prices Additive?	Embedded in Market P	rices
Carbon Value Units (\$/MWh	\$/Ton	
Source and Pg #:	March 2021 Medium G	as/Medium CO2 electricity market prices
Source Link or File Name:	2021 IRP public data di	sk: \Assumptions + Inputs\Price Curve\
Source Notes:	Data for 2041+ escalate	ed at inflation

### NOTES:

Please provide notes as to how this value relates to forward market prices. It can be expressed as a percentage of forward market prices, a set \$/MWh, or \$/ton. Please identify the units in the box to the left

PacifiCorp's 2021 IRP does not include a carbon emissions rate or cost on top of the market price for electricity.

HLH Carbon Cost (\$/MWh)

LLH Carbon Cost (\$/MWh)

				(OD 04 of LULL Delegation	(OD 06 of LLLL Drive llead
				(OR % of HLH Price that	(OR % of LLH Price that
Year	Date	HLH Total (\$/MWh)	LLH Total (\$/MWh)	accounts for Carbon?)	accounts for Carbon?)
202			23.67	-	-
202			57.44	-	-
202			25.52	-	-
202			16.48	-	-
202			14.27	-	-
202			21.14	-	-
202			23.71	-	-
202			26.74	-	-
202			24.27	-	-
202			29.02	-	-
202			28.83	-	-
202			31.53	-	-
202			31.14	-	-
202			31.07	-	-
202			24.03	-	-
202			16.53	-	-
202			12.52	-	-
202			18.94	-	-
202			24.15	-	-
202			25.08	-	-
202			28.45	-	-
202			25.66	-	-
202			27.21	-	-
202			30.15	-	-
202			29.26	-	-
202			29.39	-	-
202			22.23	-	-
202			23.19	-	-
202			14.36	-	-
202			15.52	-	-
202			22.75	-	-
202			25.96	-	-
202			22.99	-	-
202			26.31	-	-
202			30.31	-	-
202			30.58	-	-
202			31.85	-	-
202			31.61	-	-
202			22.99	-	-
202			16.35	-	-
202			16.44	-	-
202			16.28	-	-
202			27.44	-	-
202			31.38	-	-
202			26.47	-	-
202			32.38	-	-
202			31.53	-	-
202	4 12/1/2024	43.97	34.90	-	-

	Rationale for alternative submission:
Alternative Submissions	PacifiCorp's 2021 IRP reflects the most up-to-date information, unlike its most recently acknowledged 2019 IRP, which generally reflects inputs compiled in 2018.

### Loss of Load Probability Heat Map Input

NOTE: This is utilitated for generation deferrals only.

Source and page 8: 2021 RRP. Support for Appendix K - Capacity Contribution

urce Link or File Manne: 2020 RFS resist index 15865 CONS. Ashb

Source Notes: The LOLP data from the 2021 IRP was prepared at the end of the IRP process, based on a portfolio comparable to the 2021 IRP preferred portfolio.

WEEKDAYS &	WEEKENDS											
Count	31	28	31	30	31	30	31	31	30	31	30	31
Hr Ending	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.00	0.00	0.00
7	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.00	0.00	0.00
8	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.01
9	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.04	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.03	0.04	0.00	0.00	0.00
20	0.00	0.01	0.00	0.00	0.00	0.02	0.05	0.04	0.03	0.00	0.00	0.00
21	0.00	0.01	0.00	0.00	0.00	0.02	0.04	0.03	0.03	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.03	0.02	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.00	0.00	0.00

rt	31	. 2	3	1 31	31	1 30	31	31	. 30	31	30	1
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.0
2	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.0
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.0
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.0
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.0
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.00	0.00	0.0
7	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.00	0.00	0.0
8	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.0
9	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
10	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
11	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.0
15	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.0
16	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.0
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.0
18	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.03	0.00	0.00	0.0
19	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.03	0.03	0.00	0.00	0.0
20	0.00	0.01	0.00	0.00	0.00	0.01	0.04	0.04	0.02	0.00	0.00	0.0
21	0.00	0.01	0.00	0.00	0.00	0.01	0.04	0.03	0.02	0.00	0.00	0.0
22	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.03	0.01	0.00	0.00	0.0
23	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.00	0.00	0.0
24	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.00	0.00	0.1

	IDS ONLY											
Count	3	1 28		1 30	31	. 30	31	31	30	31	. 30	3
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	1 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	2 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	7 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	9 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	10 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	11 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	12 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	13 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	14 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	15 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	16 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	17 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	18 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
	19 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
	20 0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.01	0.00	0.00	0.00
	21 0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.00
	22 0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.00
	23 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	24 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### EXAMPLE

Count	31	28	31	30	31	30	31	31	30	31	30	31
Hr Ending	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.01	0.06	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.02	0.07	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.04	0.01	0.01	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.06	0.01	0.01	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.07	0.01	0.01	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.08	0.01	0.01	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.05	0.01	0.01	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.04	0.03	0.01	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.01	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.01	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.01	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Alternative	Rationale for alternative submission: PacifiCorp's 2021 IRP reflects the most up-to-date information, unlike its most
Aiternative	recently acknowledged 2019 IRP, which generally reflects inputs compiled in 2018.
Submissions	recently define medged 2015 mm, which generally reneeds inputs complied in 2010.
Jubillissions	

### **RPS Compliance Inputs IRP**

Real or Nominal?	Nominal		
Dollar Year:			
Source and Pg #:	PacifiCorp 2021 IRP, Vol I, p.301		
Source Link or File Name:	https://www.pacificorp.com/conte	nt/dam/pcorp/documents/en/pacificorp/energy/integra	ted-resource-plan/2021-irp/Volun
	Oregon RPS compliance is achieved	through 2040 with the addition of new renewable	
	resources and transmission in the 2	021 IRP preferred portfolio. The IRP Preferred Portfolio	
	does not include any renewable res	sources added for the purpose of RPS compliance. The	
Source Notes:	cost-effective renewables in the po	rtfolio are lower cost than non-RPS alternatives.	

RPS Compliance Cost (\$/MWh)	Avoided RPS Compliance Obligation (%)
2021 \$ -	20%
2022 \$ -	20%
2023 \$ -	20%
2024 \$ -	20%
2025 \$ -	27%
2026 \$ -	27%
2027 \$ -	27%
2028 \$ -	27%
2029 \$ -	27%
2030 \$ -	35%
2031 \$ -	35%
2032 \$ -	35%
2033 \$ -	35%
2034 \$ -	35%
2035 \$ -	45%
2036 \$ -	45%
2037 \$ -	45%
2038 \$ -	45%
2039 \$ -	45%
2040 \$ -	50%
2041	50%
2042	50%
2043	50%
2044	50%
2045	50%
2046	50%
2047	50%
2048	50%
2049	50%
2050	50%

	2019 IRP Med CO2	2019 IRP EE	Risk Reduction Credit
		Calculated	Levelized
		by IRP	values by
\$/ST	PAC Nom	models	year
		\$4.74	\$3.79
2018	3	\$4.74	\$3.88
2019	)	\$4.74	\$3.97
2020	)	\$4.74	\$4.06
2021	_	\$4.74	\$4.15
2022	<u>.</u>	\$4.74	\$4.25
2023	}	\$4.74	\$4.34
2024	ļ	\$4.74	\$4.44
2025	9.93	\$4.74	\$4.54
2026	5 11.15	\$4.74	\$4.65
2027	12.54	\$4.74	\$4.75
2028	3 14.09	\$4.74	\$4.86
2029	15.85	\$4.74	\$4.97
2030	17.83	\$4.74	\$5.09
2031	20.06	\$4.74	\$5.20
2032	2 22.58	\$4.74	\$5.32
2033	3 25.41	\$4.74	\$5.44
2034	28.59	\$4.74	\$5.57
2035	32.14	\$4.74	\$5.69
2036	36.13	\$4.74	\$5.82
2037	40.66		
2038	3 45.76		
2039	51.49		
2040	57.94		

Nominal levelized 2017-2036 \$4.74 \$4.74 Real-levelized Adjustment 125%

set so that nominal and real streams are equal

**2021 IRP Med CO2** 2021 IRP EE Risk Reduction Credit

2021 22	. mon nead
Calculated	Levelized
by IRP	values by
models	year

21IRP: Figure 8.4 (unchanged from 2019 IRP)

**PAC Nom** 

	\$3.59	\$3.05
	\$3.59	\$3.11
	\$3.59	\$3.18
	\$3.59	\$3.25
9.93	\$3.59	\$3.32
11.15	\$3.59	\$3.39
12.54	\$3.59	\$3.46
14.09	\$3.59	\$3.54
15.85	\$3.59	\$3.61
17.83	\$3.59	\$3.69
20.06	\$3.59	\$3.77
22.58	\$3.59	\$3.85
25.41	\$3.59	\$3.94
28.59	\$3.59	\$4.02
32.14	\$3.59	\$4.11
36.13	\$3.59	\$4.20
40.66	\$3.59	\$4.29
45.76	\$3.59	\$4.38
51.49	\$3.59	\$4.47
57.94	\$3.59	\$4.57

Nominal levelized 2021-2040 \$3.59 \$3.59

Real-levelized Adjustment 118%

set so that nominal and real streams are equal

Distribut	ion 12x24 Weighting		Dist. 12: Hour	x24 pro	ofile																					
Season	Monthly Weight	Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Winter	21%	1	0%	0%	0%	0%	0%	0%	6%	12%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Winter	7%	2	0%	0%	0%	0%	0%	0%	2%	4%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Winter	0%	3	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Summer	0%	4	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Summer	0%	5	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Summer	5%	6	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	1%	1%	1%	1%	0%	0%	0%	0%	0%
Summer	37%	7	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	2%	8%	10%	10%	7%	0%	0%	0%	0%	0%
Summer	15%	8	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	1%	3%	4%	4%	3%	0%	0%	0%	0%	0%
Summer	0%	9	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Summer	0%	10	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Winter	3%	11	0%	0%	0%	0%	0%	0%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	4.20/	12	0%	0%	0%	0%	0%	0%	4%	7%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Winter	13%	12	070	370	370	0,0		070	470	770	270	070	070	0,0	0,0		070	0,0	0,0	070	070					
	13% ssion 12x24 Weighting	, T		12x24 p		370		0,0	470	770	270	070	070	0,0	070		0/8	0,0	0,0	070	0/3					
<b>Transmis</b> Season		, T	rans. 1			4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
<b>Transmis</b> Season Winter	ssion 12x24 Weighting	g T F Month	rans. 1	12x24 p	profile				7 0%															22 0%	23	
Transmis Season Winter Winter	ssion 12x24 Weighting  Monthly Weighting	g T F Month 1 2	rans. 1 lour 1	12x24 p 2	profile 3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21			24
Transmis Season Winter Winter Winter	ssion 12x24 Weighting  Monthly Weighting  25%	y T H Month 1 2 3	rans. 1 lour 1 0%	12x24 p 2 0%	profile 3 0%	4 0%	5 0%	6	7 0%	8	9	10 6%	11 0%	12 0%	13	14 0%	15 0%	16 0%	17 0%	18 0%	19 0%	20 0%	21 0%	0%	0%	24
Transmis Season Winter Winter Winter Summer	ssion 12x24 Weighting  Monthly Weighting  25%  8%	3 T Month 1 2 3 4	rans. 1 lour 1 0% 0%	12x24 p 2 0% 0%	profile 3 0% 0%	4 0% 0%	5 0% 0%	6 0% 0%	7 0% 0%	8 9% 6%	9 10% 2%	10 6% 0%	11 0% 0%	12 0% 0%	13 0% 0%	14 0% 0%	15 0% 0%	16 0% 0%	17 0% 0%	18 0% 0%	19 0% 0%	20 0% 0%	21 0% 0%	0% 0%	0% 0%	24 0% 0%
Transmis Season Winter Winter Winter Summer Summer	SSION 12x24 Weighting  Monthly Weighting 25% 8% 0%	Month 1 2 3 4 5	rans. 1 lour 1 0% 0%	12x24 p 2 0% 0% 0%	970 profile  3  0%  0%  0%	4 0% 0% 0%	5 0% 0% 0%	6 0% 0% 0%	7 0% 0% 0%	8 9% 6% 0%	9 10% 2% 0%	10 6% 0% 0%	11 0% 0% 0%	12 0% 0% 0%	13 0% 0% 0% 0% 0%	14 0% 0% 0%	15 0% 0% 0%	16 0% 0% 0%	17 0% 0% 0% 0%	18 0% 0% 0%	19 0% 0% 0%	20 0% 0% 0%	21 0% 0% 0%	0% 0% 0%	0% 0% 0% 0% 0%	24 0% 0% 0%
Season Winter Winter Winter Summer Summer Summer	Sesion 12x24 Weighting  Monthly Weighting  25%  8%  0%  0%  0%  1%	Month  1 2 3 4 5	rans. 1 lour 1 0% 0% 0%	12x24 p 2 0% 0% 0% 0%	970file 3 0% 0% 0% 0%	4 0% 0% 0% 0%	5 0% 0% 0%	6 0% 0% 0%	7 0% 0% 0%	8 9% 6% 0%	9 10% 2% 0% 0%	10 6% 0% 0% 0% 0%	11 0% 0% 0%	12 0% 0% 0% 0% 0%	13 0% 0% 0% 0% 0%	14 0% 0% 0%	15 0% 0% 0% 0% 0%	16 0% 0% 0% 0% 0%	17 0% 0% 0% 0% 0%	18 0% 0% 0% 0% 0%	19 0% 0% 0%	20 0% 0% 0% 0%	21 0% 0% 0%	0% 0% 0% 0% 0%	0% 0% 0% 0% 0%	24 0% 0% 0% 0%
Transmis Season Winter Winter Winter Summer Summer Summer Summer	Ssion 12x24 Weighting  Monthly Weighting  25%  8%  0%  0%  0%  1%  37%	Month  1 2 3 4 5 6 7	rans. 1 Hour 1 0% 0% 0% 0%	12x24 p 2 0% 0% 0% 0% 0%	oprofile  3  0%  0%  0%  0%  0%  0%  0%  0%	4 0% 0% 0% 0% 0%	5 0% 0% 0% 0% 0% 0%	6 0% 0% 0% 0% 0% 0%	7 0% 0% 0% 0% 0% 0%	8 9% 6% 0% 0%	9 10% 2% 0% 0% 0%	10 6% 0% 0% 0%	11 0% 0% 0% 0%	12 0% 0% 0% 0% 0% 0%	13 0% 0% 0% 0% 0% 0%	14 0% 0% 0% 0% 0% 0%	15 0% 0% 0% 0% 0% 0%	16 0% 0% 0% 0% 0% 11%	17 0% 0% 0% 0% 0%	18 0% 0% 0% 0% 0% 0%	19 0% 0% 0% 0% 0% 0%	20 0% 0% 0% 0% 0% 0%	21 0% 0% 0% 0%	0% 0% 0% 0% 0% 0%	0% 0% 0% 0% 0% 0%	24 0% 0% 0% 0% 0%
Transmis Season Winter Winter Winter Summer Summer Summer Summer	Sesion 12x24 Weighting  Monthly Weighting  25%  8%  0%  0%  0%  1%	Month  1 2 3 4 5 6 7	rans. 1 Hour 1 0% 0% 0% 0% 0% 0%	12x24 p 2 0% 0% 0% 0% 0% 0% 0%	profile  3  0%  0%  0%  0%  0%  0%	4 0% 0% 0% 0% 0%	5 0% 0% 0% 0% 0% 0% 0%	6 0% 0% 0% 0% 0% 0% 0%	7 0% 0% 0% 0% 0%	8 9% 6% 0% 0% 0%	9 10% 2% 0% 0% 0% 0%	10 6% 0% 0% 0% 0% 0% 0%	11 0% 0% 0% 0% 0%	12 0% 0% 0% 0% 0% 0% 0%	13 0% 0% 0% 0% 0%	14 0% 0% 0% 0% 0%	15 0% 0% 0% 0% 0% 0% 7%	16 0% 0% 0% 0% 0% 0%	17 0% 0% 0% 0% 0% 0%	18 0% 0% 0% 0% 0% 0% 0%	19 0% 0% 0% 0% 0% 0%	20 0% 0% 0% 0% 0%	21 0% 0% 0% 0% 0%	0% 0% 0% 0% 0% 0% 0%	0% 0% 0% 0% 0% 0% 0%	24 0% 0% 0% 0% 0% 0%
Transmis Season Winter Winter Winter Summer Summer Summer Summer Summer Summer	Sesion 12x24 Weighting  Monthly Weighting  25%  8%  0%  0%  1%  37%  11%  0%	Month  1 2 3 4 5 6 7 8 9	Frans. 1 Hour 1 0% 0% 0% 0% 0% 0%	12x24 p 2 0% 0% 0% 0% 0% 0% 0%	oprofile  3  0%  0%  0%  0%  0%  0%  0%  0%  0%	4 0% 0% 0% 0% 0% 0%	5 0% 0% 0% 0% 0% 0%	6 0% 0% 0% 0% 0% 0% 0%	7 0% 0% 0% 0% 0% 0% 0%	8 9% 6% 0% 0% 0% 0% 0%	9 10% 2% 0% 0% 0% 0% 0%	10 6% 0% 0% 0% 0% 0% 0%	11 0% 0% 0% 0% 0% 0%	12 0% 0% 0% 0% 0% 0%	13 0% 0% 0% 0% 0% 0% 0%	14 0% 0% 0% 0% 0% 0%	15 0% 0% 0% 0% 0% 0% 7% 2%	16 0% 0% 0% 0% 0% 11%	17 0% 0% 0% 0% 0%	18 0% 0% 0% 0% 0% 4% 1% 0%	19 0% 0% 0% 0% 0% 0%	20 0% 0% 0% 0% 0% 0%	21 0% 0% 0% 0% 0% 0%	0% 0% 0% 0% 0% 0% 0%	0% 0% 0% 0% 0% 0% 0%	24 0% 0% 0% 0% 0% 0%
Transmis Season Winter Winter Winter Summer Summer Summer Summer Summer Summer Summer	Sesion 12x24 Weighting  Monthly Weighting  25%  8%  0%  0%  1%  37%  11%  0%  0%	Month  1 2 3 4 5 6 7 8 9 10	Trans. 1 Hour 1 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	12x24 p 2 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	orofile  3  0%  0%  0%  0%  0%  0%  0%  0%  0%	4 0% 0% 0% 0% 0% 0% 0% 0%	5 0% 0% 0% 0% 0% 0% 0% 0%	6 0% 0% 0% 0% 0% 0% 0% 0%	7 0% 0% 0% 0% 0% 0% 0% 0%	8 9% 6% 0% 0% 0% 0% 0% 0%	9 10% 2% 0% 0% 0% 0% 0% 0%	10 6% 0% 0% 0% 0% 0% 0% 0%	11 0% 0% 0% 0% 0% 0% 0% 0%	12 0% 0% 0% 0% 0% 0% 0%	13 0% 0% 0% 0% 0% 0% 0%	14 0% 0% 0% 0% 0% 2% 0% 0%	15 0% 0% 0% 0% 0% 7% 2% 0%	16 0% 0% 0% 0% 0% 11% 5% 0%	17 0% 0% 0% 0% 0% 12% 4% 0%	18 0% 0% 0% 0% 0% 4% 1% 0%	19 0% 0% 0% 0% 0% 0% 0%	20 0% 0% 0% 0% 0% 0% 0%	21 0% 0% 0% 0% 0% 0% 0%	0% 0% 0% 0% 0% 0% 0% 0%	0% 0% 0% 0% 0% 0% 0% 0%	24 0% 0% 0% 0% 0% 0% 0% 0%
Transmis Season Winter Winter Winter Summer Summer Summer Summer Summer Summer	Sesion 12x24 Weighting  Monthly Weighting  25%  8%  0%  0%  1%  37%  11%  0%	Month  1 2 3 4 5 6 7 8 9	Trans. 1 Hour 1 0% 0% 0% 0% 0% 0% 0% 0% 0%	12x24 p 2 0% 0% 0% 0% 0% 0% 0% 0% 0%	oprofile  3  0%  0%  0%  0%  0%  0%  0%  0%  0%	4 0% 0% 0% 0% 0% 0% 0%	5 0% 0% 0% 0% 0% 0% 0%	6 0% 0% 0% 0% 0% 0% 0%	7 0% 0% 0% 0% 0% 0% 0%	8 9% 6% 0% 0% 0% 0% 0%	9 10% 2% 0% 0% 0% 0% 0%	10 6% 0% 0% 0% 0% 0% 0%	11 0% 0% 0% 0% 0% 0% 0%	12 0% 0% 0% 0% 0% 0%	13 0% 0% 0% 0% 0% 0% 0%	14 0% 0% 0% 0% 0% 0% 0% 0%	15 0% 0% 0% 0% 0% 0% 7% 2%	16 0% 0% 0% 0% 0% 0% 11% 5%	17 0% 0% 0% 0% 0% 0% 12% 4%	18 0% 0% 0% 0% 0% 4% 1% 0%	19 0% 0% 0% 0% 0% 0%	20 0% 0% 0% 0% 0% 0% 0%	21 0% 0% 0% 0% 0% 0% 0%	0% 0% 0% 0% 0% 0% 0%	0% 0% 0% 0% 0% 0% 0%	24 0% 0% 0% 0% 0% 0% 0%

Rationale for alternative submission: Pacificorp's 2021 IRP reflects the most up-to-date information, unlike Its most recently acknowledged 2019 IRP, which generally reflects inputs compiled in 2018.

			Hour																							
Season	Monthly Weight	Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Winter	4%	1	0%	0%	0%	0%	0%	0%	0%	2%	2%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Winter	6%	2	0%	0%	0%	0%	0%	0%	0%	3%	2%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Winter	0%	3	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Summer	0%	4	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Summer	0%	5	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Summer	0%	6	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Summer	71%	7	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	1%	10%	23%	25%	11%	0%	0%	0%	0%	0%	0%
Summer	11%	8	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	1%	5%	4%	0%	0%	0%	0%	0%	0%	0%
Summer	7%	9	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	2%	4%	1%	0%	0%	0%	0%	0%	0%
Summer	0%	10	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Winter	0%	11	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Winter	0%	12	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
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Distribution 12x24 Weighting

Dist. 12x24 profile

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