

November 8, 2018

***VIA ELECTRONIC FILING***

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

**RE: UE 339—2019 Transition Adjustment Mechanism – Net Power Cost Indicative Update for 2019**

PacifiCorp d/b/a Pacific Power encloses for filing the updated 2019 net power cost forecast for posting indicative transition adjustments. This filing is based on Order No. 18-421, approving a stipulation between PacifiCorp, Public Utility Commission of Oregon staff, the Alliance of Western Energy Consumers, Oregon Citizens' Utility Board and Calpine Energy Solutions, directing the company to update its Transition Adjustment Mechanism (TAM) application to reflect the provisions of the stipulation, subject to a final update.<sup>1</sup>

This filing indicates a 2019 net power cost forecast of \$1,406.1 million on a total company basis. Based on this indicative forecast, Oregon-allocated net power costs are \$361.2 million. This is a decrease of approximately \$5.1 million (Oregon-allocated) from the July Update. The overall impact of the 2019 TAM inclusive of net power costs and changes in load is a decrease of \$3.8 million from amounts already included in rates. In support of this filing, the following exhibits are attached:

- Exhibit A – Summary of updates since the July Update filing and impacts on net power costs.
- Exhibit B – Description of updates to net power costs and other TAM filing elements.
- Exhibit C – Attestation of Joseph Hoerner, in accordance with paragraph 13 of the Stipulation adopted by Order No. 10-363 (docket UE 216), paragraph 15 of the Stipulation adopted by Order No. 14-331 (docket UE 287), and paragraph 23 of the stipulation adopted by the Commission in Order No. 18-421 on October 26, 2018.
- Exhibit D – Updated Oregon allocation of net power costs.
- Exhibit E – Copy of the indicative transition adjustments and Schedule 201 rates posted on the company's website November 8, 2018.

The company has provided the net power cost GRID project, report, and workpapers supporting this filing, as required by the TAM Guidelines. The confidential material is provided subject to the protective order issued in this proceeding.

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<sup>1</sup> *In the Matter of PacifiCorp, dba Pacific Power, 2019 Transition Adjustment Mechanism, Docket No. UE 339, Order No. 18-421 (Oct. 26, 2018).*

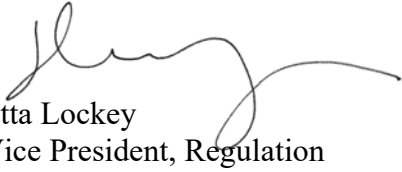
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Please direct questions about this filing to Natasha Siores at (503) 813-6583.

Sincerely,

A handwritten signature in black ink, appearing to read 'Etta Lockey', with a long, sweeping horizontal line extending to the right.

Etta Lockey  
Vice President, Regulation

Enclosures

## CERTIFICATE OF SERVICE

I certify that I delivered a true and correct copy of PacifiCorp's **2019 Transition Adjustment Mechanism – Net Power Cost Indicative Update for 2019** on the parties listed below via electronic mail and overnight delivery in compliance with OAR 860-001-0180.

### Service List UE 339

<b>ALLIANCE OF WESTERN ENERGY CONSUMERS</b>	
<p>MYRALEIGH ALBERTO (C) (HC) DAVISON VAN CLEVE 1750 SW HARBOR WAY STE 450 PORTLAND OR 97201 <a href="mailto:maa@dvclaw.com">maa@dvclaw.com</a></p>	<p>BRADLEY MULLINS (C) (HC) MOUNTAIN WEST ANALYTICS 1750 SW HARBOR WAY STE 450 PORTLAND OR 97201 <a href="mailto:brmullins@mwanalytics.com">brmullins@mwanalytics.com</a></p>
<p>TYLER C PEPPE (C) (HC) DAVISON VAN CLEVE, PC 1750 SW HARBOR WAY STE 450 PORTLAND OR 97201 <a href="mailto:tcp@dvclaw.com">tcp@dvclaw.com</a></p>	
<b>CALPINE SOLUTIONS</b>	
<p>GREGORY M. ADAMS (C) RICHARDSON ADAMS, PLLC PO BOX 7218 BOISE, ID 83702 <a href="mailto:greg@richardsonadams.com">greg@richardsonadams.com</a></p>	<p>GREG BASS CALPINE ENERGY SOLUTIONS, LLC 401 WEST A ST, STE 500 SAN DIEGO, CA 92101 <a href="mailto:greg.bass@calpinesolutions.com">greg.bass@calpinesolutions.com</a></p>
<p>KEVIN HIGGINS (C) ENERGY STRATEGIES LLC 215 STATE ST - STE 200 SALT LAKE CITY, UT 84111-2322 <a href="mailto:khiggins@energystrat.com">khiggins@energystrat.com</a></p>	
<b>OREGON CITIZENS' UTILITY BOARD</b>	
<p>OREGON CITIZENS' UTILITY BOARD 610 SW BROADWAY, STE 400 PORTLAND, OR 97205 <a href="mailto:dockets@oregoncub.org">dockets@oregoncub.org</a></p>	<p>MICHAEL GOETZ (C)(HC) OREGON CITIZENS' UTILITY BOARD 610 SW BROADWAY STE 400 PORTLAND, OR 97205 <a href="mailto:mike@oregoncub.org">mike@oregoncub.org</a></p>
<p>ROBERT JENKS (C)(HC) OREGON CITIZENS' UTILITY BOARD 610 SW BROADWAY, STE 400 PORTLAND, OR 97205 <a href="mailto:bob@oregoncub.org">bob@oregoncub.org</a></p>	

<b>PACIFICORP</b>	
PACIFICORP, DBA PACIFIC POWER 825 NE MULTNOMAH ST, STE 2000 PORTLAND, OR 97232 <a href="mailto:oregondockets@pacificorp.com">oregondockets@pacificorp.com</a>	MATTHEW MCVEE (C)(HC) PACIFICORP 825 NE MULTNOMAH, STE 1800 PORTLAND, OR 97232 <a href="mailto:matthew.mcvee@pacificorp.com">matthew.mcvee@pacificorp.com</a>
KATHERINE A MCDOWELL (C)(HC) MCDOWELL RACKNER & GIBSON PC 419 SW 11TH AVE., SUITE 400 PORTLAND, OR 97205 <a href="mailto:katherine@mcd-law.com">katherine@mcd-law.com</a>	
<b>STAFF</b>	
SCOTT GIBBENS (C)(HC) PUBLIC UTILITY COMMISSION OF OREGON PO BOX 1088 SALEM, OR 97308-1088 <a href="mailto:george.compton@state.or.us">george.compton@state.or.us</a>	KAYLIE KLEIN (C)(HC) PUC STAFF - DEPARTMENT OF JUSTICE 1162 COURT ST NE SALEM, OR 97301 <a href="mailto:kaylie.klein@state.or.us">kaylie.klein@state.or.us</a>
SOMMER MOSER (C)(HC) PUC STAFF - DEPARTMENT OF JUSTICE 1162 COURT ST NE SALEM, OR 97301 <a href="mailto:sommer.moser@doj.state.or.us">sommer.moser@doj.state.or.us</a>	

Dated this 8<sup>th</sup> day of November, 2018.

  
 \_\_\_\_\_  
 Jennifer Angell  
 Supervisor, Regulatory Operations

# Exhibit A

<b>Oregon TAM 2019 (March 2018 Initial Filing)</b>	<b>NPC (\$) =</b>	<b>1,501,455,411</b>
	<b>\$/MWh =</b>	<b>25.46</b>

<b>Oregon TAM 2019 (July 2018 Update Filing)</b>	<b>NPC (\$) =</b>	<b>1,465,949,855</b>
	<b>\$/MWh =</b>	<b>24.85</b>

	<b>Impact (\$)</b>	<b>NPC (\$)</b>
<b>Updates</b>		
U01 - Repower Update	1,313,470	
U02 - QF Contracts Status	(2,328,188)	
U03 - LongTerm Contracts Updates (Gem State Contract Cost, Tesoro Pricing	(23,955)	
U04 - Wheeling Updates	(1,039,115)	
U05 - Mid Columbia Contracts Updates	258,921	
U06 - Official Forward Price Curve and Short Term Firm Transactions	(6,541,089)	
U07 - EIM Benefits	(18,322,058)	
U08 - Gas Pipeline Updates	(674,435)	
U09 - Non Owned Wind CF Updates	564,697	
<b>Total Updates =</b>	<b>(26,791,752)</b>	
<b>System balancing impact of all adjustments</b>	<b>830,104</b>	
<b>Total Change from July 2017 Update Filing</b>	<b>(25,961,647)</b>	
<b>Oregon TAM 2019 (November 2018 Indicative Filing)</b>	<b>NPC (\$) =</b>	<b>1,439,988,207</b>
	<b>\$/MWh =</b>	<b>24.41</b>

# Exhibit B

Exhibit B

**November 2018  
Oregon Transition Adjustment Mechanism (TAM) Indicative Update  
Update Explanations**

**Updates to Net Power Costs (NPC):**

**Update 1 – Repowering**

PacifiCorp has aligned the repowering benefits with the rate effective date of the repowering costs that will be proposed in the Renewable Adjustment Clause based on the most recent expected in-service dates of the repowering projects. The repowering of Glenrock III has been moved to 2020. This update increases NPC by approximately \$1.3 million on a total company basis. *Supporting document: U01 – Repowering Schedule.*

**Update 2 – Qualified Facility (QF) Contract**

PacifiCorp has incorporated the following QF contract changes (*Supporting documents are listed in italics*):

- Added Three Sister Irrigation District Watson Micro Hydro QF – 0.2 megawatt facility with an online date of 10/15/2018. *Supporting document: U02 Three Sisters Irr Dist 5-8-18 200kW QF PPA OR SCH 37 NON CONF.*
- Based on status updates provided by the project developer, several projects expected online dates have been postponed:

	July Update	November Update
Mariah Wind QF	12/31/2018	3/1/2020
Orem Family Wind QF	12/31/2018	3/1/2020
Bear Creek Solar	5/7/2018	9/28/2018
NorWest Energy 4 -Bonanza Solar	7/31/2018	12/7/2018
NorWest Energy 9 -Pendleton	7/31/2018	10/3/2018
Cypress Creek Renewables - Merrill Solar LLC	7/31/2018	6/1/2020
OR Solar 2 LLC - Agate Bay	9/30/2018	7/10/2019
OR Solar 7 LLC - Jacksonville	9/30/2018	Terminate
Sweetwater Solar QF	12/1/2018	12/28/2018
Orchard Wind Farm 1, LLC	7/1/2019	10/1/2020
Orchard Wind Farm 2, LLC	7/1/2019	10/1/2020
Orchard Wind Farm 3, LLC	7/1/2019	10/1/2020
Orchard Wind Farm 4, LLC	7/1/2019	10/1/2020

These updates decrease NPC by approximately \$2.3 million on a total company basis.

Note: The online date shown in the November Update column in the table above does not reflect the contract delay rate (CDR) required in Order No. 17-444. Instead, the CDR is reflected in the Generation and Regulation Initiative Decision



## Exhibit B

Tools (GRID) study for Ordered Adjustment 2 (see explanation above) and the GRID study for the system balancing impacts of all adjustments

### Update 3 – Gem State Budget and Tesoro Pricing

Idaho Falls provided the Gem State operating budget on August 17, 2018, for the fiscal year beginning October 1, 2019. This update reduces NPC by approximately \$24,000 on a total company basis. *Supporting document: U03 - Idaho Falls 8-17-18 Notice for Gem State Budget FINAL FY 2019.*

### Update 4 – Wheeling Expense

Idaho Power Company, Western Area Power Administration, Tri-state, and Public Service Company of Colorado have released updated tariff rates effective during 2018.

November Wheeling Update	PTP rate Nov Update (\$/KW-yr)	PTP Rate July Update (\$/KW-yr)	Test Period Cost Nov Update (\$)	Test Period Cost July Update (\$)	Change (\$)
1). IDAHO FIRM PTP TRANS	31.25	34.90	15,937,500	17,799,000	(1,861,500)
2). WAPA 2437 ANCIL SERV	0.308	0.290	162,109	161,441	667
3). WAPA 2437 NTWK TRANS	Based on Fiscal Year Annual Payment		6,772,111	6,280,066	492,045
4). TRI-STATE FIRM WHEEL	Based on Fiscal Year Monthly Payment		1,120,812	1,093,476	27,336
5). PSCO FIRM WHEEL	Based on Fiscal Year Monthly Payment		1,120,812	1,093,476	27,336
6). WAPA FIRM TRANS	19.55	17.35	2,443,750	2,168,750	275,000
<b>Total Impact to November TAM Update</b>					<b>(1,039,115)</b>

These updates decrease NPC by approximately \$1 million on a total company basis.

### Update 5 – Mid Columbia Contracts Update, Grant Public Utility District (PUD) Priest Rapids and Wanapum Pro Forma

Grant PUD provided its preliminary estimate for the 2019 Priest Rapids project cost on September 10, 2018. This update increases NPC by approximately \$260,000 on a total company basis. *Supporting document: U05 - Grant PUD Prelim 2019 Priest-Wanapum Proforma dtd 9-10-18*

### Update 6 – October 30, 2018 Official Forward Price Curve and October 25, 2018 Short-Term Firm Transactions

This update incorporates PacifiCorp's official forward price curves as of October 30, 2018, and new wholesale short-term firm transactions for electricity and natural gas, both physical and financial transactions, through October 25, 2018. The impact of this update decreases NPC by approximately \$6.5 million on a total company basis.

### Update 7 – Energy Imbalance Market (EIM) Benefit

The forecasted EIM benefit was calculated consistent with the approach approved by the Commission in Order No. 17-444 and updated to incorporate the periods of April 2017 through September 2017. The flexibility reserve diversity benefit was also updated. This update decreases NPC by approximately \$18.3 million on a total company basis. *Supporting calculations: NovU07\_OR TAM19 EIM Margin Forecast TAM.*

## Exhibit B

### **Update 8 – Gas Pipeline**

Two Hermiston gas pipeline transmission contracts were updated. These updates increase NPC by approximately \$674,000 on a total company basis. *Supporting document: NovU08 ORTAM19w\_Pipeline & Storage Fees (1806) CONF Pipeline.*

### **Update 9 – Non-Owned Wind Capacity Factor**

Capacity factors of non-owned wind facilities were updated to align with the settlement approved in Order No. 18-421 dated October 26, 2018. *Supporting document: NovU09 ORTAM19w\_Wind & Solar CONF Wind CF chg.*

### **System balancing impact of all adjustments**

This update recalculates NPC based on the inclusion of Updates 1 through 9, including the screening of gas-fired units and adjustment of incremental coal prices. The combined impact of all updates decreases NPC by approximately \$26 million on a total company basis.

### **Oregon Situs Solar Projects**

This update incorporates PacifiCorp's official forward price curves as of October 30, 2018. The impact of this update decreases NPC by approximately \$155,000 on an Oregon situs basis.

### **Updates to Non-Net Power Cost Items included in the TAM:**

Please see page 1 of Exhibit D for the changes in the following TAM elements as described below.

#### **Non-NPC EIM Costs, Exhibit D line 40**

This update reflects an increase in operations and non-NPC administrative costs. The impact of this update increases the total TAM filing by approximately \$7,000 on an Oregon allocated basis.

#### **Production Tax Credits, Exhibit D line 41**

This update reflects the changes in production tax credits and increases the total TAM filing by approximately \$2.5 million.

# Exhibit C

**BEFORE THE PUBLIC UTILITY COMMISSION  
OF OREGON**

**UE 339**

In the Matter of  
PACIFICORP d/b/a PACIFIC POWER,  
2019 Transition Adjustment Mechanism.

ATTESTATION OF  
JOSEPH P. HOERNER

1 I, JOSEPH P. HOERNER, being first duly sworn on oath, depose and say:

2 1. My full name is Joseph P. Hoerner. I am employed by PacifiCorp. My  
3 present position is Vice President, Energy Supply Management, for  
4 PacifiCorp.

5 2. I am making this attestation in compliance with Paragraph 13 of the  
6 stipulation adopted by the Public Utility Commission of Oregon in Order  
7 No. 10-363 in docket UE 216 on September 16, 2010, Paragraph 15 of the  
8 stipulation adopted by the Commission in Order No. 14-331 on October 1,  
9 2014, and Paragraph 23 of the stipulation adopted by the Commission in  
10 Order No. 18-421 on October 26, 2018.

11 3. I understand that this attestation will be filed concurrently with the Indicative  
12 Filing of the Company's net power costs (NPC) on November 8, 2018.

13 4. I attest that all NPC contracts executed before the contract lockdown date of  
14 October 25, 2018, are included in the Indicative Filing.

15 5. I attest that for the executed power purchase agreements with new qualifying  
16 facilities (QFs) included in the 2019 TAM, PacifiCorp has a commercially  
17 reasonable good faith belief that these QFs will reach commercial operation

1 during the rate effective period based on the information known to PacifiCorp  
2 as of the contract lockdown date of October 25, 2018.

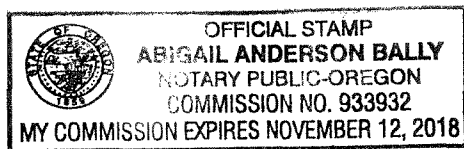
3 6. I attest that the wheeling expense included in the 2019 TAM is accurate and  
4 complete as of October 25, 2018 and that based on the information known to  
5 PacifiCorp there are no other filed transmission rate cases, with the exception  
6 of the Bonneville Power Administration (BPA) Rate Case (BP-20), that  
7 impact the wheeling expense included in the 2019 TAM. BP-20 is currently in  
8 settlement discussions, and the impact of this case is not included in the 2019  
9 TAM.

10 I declare under penalty of perjury under the laws of the state of Oregon that the  
11 foregoing is true and correct based on my information and belief as of the date of this  
12 attestation.

13 SIGNED this: 6<sup>th</sup> day of November 2018, at Portland, Oregon

14 Signed: Joseph H

15 SUBSCRIBED AND SWORN to before me this 6<sup>th</sup> day of November, 2018.



Abigail E. Bally

Notary Public, State of Oregon

My Commission expires: 11-12-2018

# Exhibit D

PacifiCorp  
CY 2019 TAM  
Indicative Update

Line no	ACCT.	Total Company					Factor	Factors CY 2018	Factors CY 2019	Oregon Allocated							
		UE-323 CY 2018 - Final Update	TAM CY 2019 - Initial Filing	TAM CY 2019 - Initial Filing w/ Settlement	TAM CY 2019 - Reply Update	TAM CY 2019 - Indicative Update				UE-323 CY 2018 - Final Update	TAM CY 2019 - Initial Filing	TAM CY 2019 - Initial Filing w/ Settlement	TAM CY 2019 - Reply Update	TAM CY 2019 - Indicative Update			
1		<b>Sales for Resale</b>															
2																	
3	447	14,589,272	8,142,702	8,142,702	7,115,322	7,904,258	SG	25.741%	26.725%	3,755,357	2,176,121	2,176,121	1,901,556	2,112,398			
4	447	-	-	-	-	-	SG	25.741%	26.725%	-	-	-	-	-			
5	447	416,976,550	315,490,543	316,265,558	353,631,270	477,520,574	SG	25.741%	26.725%	107,332,001	84,314,241	84,521,362	94,507,277	127,616,455			
6	447	-	-	-	-	-	SE	24.186%	25.322%	-	-	-	-	-			
6		<b>431,565,821</b>	<b>323,633,245</b>	<b>324,408,260</b>	<b>360,746,591</b>	<b>485,424,832</b>				<b>111,087,358</b>	<b>86,490,363</b>	<b>86,697,484</b>	<b>96,408,833</b>	<b>129,728,853</b>			
7		<b>Total Sales for Resale</b>															
8		<b>Purchased Power</b>															
9	555	4,627,573	3,365,936	3,365,936	3,458,271	3,084,186	SG	25.741%	26.725%	1,191,162	899,540	899,540	924,216	824,243			
10	555	23,836,008	2,756,828	2,756,828	3,332,695	3,332,695	SG	25.741%	26.725%	6,135,516	736,757	736,757	890,656	890,656			
11	555	30,516,365	17,869,545	17,869,545	18,392,024	17,548,219	SE	24.186%	25.322%	7,380,840	4,524,997	4,524,997	4,657,301	4,443,629			
12	555	635,614,579	609,731,622	596,489,901	654,830,316	717,988,970	SG	25.741%	26.725%	163,610,602	162,949,604	159,410,779	175,002,143	191,881,172			
13	555	-	-	-	-	-	SE	24.186%	25.322%	-	-	-	-	-			
14	555	7,552,475	7,091,901	7,124,313	7,131,875	7,099,964	SG	25.741%	26.725%	1,944,047	1,895,297	1,903,959	1,905,980	1,897,452			
14		<b>702,146,999</b>	<b>640,815,832</b>	<b>627,606,523</b>	<b>687,145,181</b>	<b>749,054,034</b>				<b>180,262,168</b>	<b>171,006,195</b>	<b>167,476,032</b>	<b>183,380,297</b>	<b>199,937,152</b>			
15		<b>Total Purchased Power</b>															
16		<b>Wheeling Expense</b>															
17																	
18	565	21,359,209	22,380,362	22,380,362	22,380,362	22,380,362	SG	25.741%	26.725%	5,497,975	5,981,109	5,981,109	5,981,109	5,981,109			
19	565	-	-	-	-	-	SG	25.741%	26.725%	-	-	-	-	-			
20	565	117,589,895	109,568,290	109,569,174	109,561,532	108,552,703	SG	25.741%	26.725%	30,268,270	29,281,915	29,282,151	29,280,109	29,010,501			
21	565	6,273,914	4,447,418	4,447,418	4,447,418	4,447,418	SE	24.186%	25.322%	1,517,440	1,126,193	1,126,193	1,126,193	1,126,193			
22		<b>145,223,018</b>	<b>136,396,070</b>	<b>136,396,954</b>	<b>136,389,312</b>	<b>135,380,482</b>				<b>37,283,685</b>	<b>36,389,216</b>	<b>36,389,453</b>	<b>36,387,410</b>	<b>36,117,802</b>			
23		<b>Fuel Expense</b>															
24																	
25	501	753,810,234	676,667,893	671,926,269	650,307,080	696,427,777	SE	24.186%	25.322%	182,320,284	171,348,518	170,147,825	164,673,329	176,352,194			
26	501	55,637,424	40,869,237	40,780,754	38,090,258	40,756,197	SE	24.186%	25.322%	13,456,743	10,349,070	10,326,664	9,645,366	10,320,445			
27	501	3,252,700	4,631,939	4,632,077	3,533,709	5,801,788	SE	24.186%	25.322%	786,714	1,172,918	1,172,953	894,820	1,469,152			
28	547	247,372,678	317,504,511	317,339,160	303,760,595	289,989,253	SE	24.186%	25.322%	59,830,783	80,399,747	80,357,876	76,919,458	73,432,225			
29	547	2,439,959	3,718,622	3,718,646	3,417,989	3,951,185	SE	24.186%	25.322%	590,141	941,644	941,650	865,517	1,000,535			
30	503	5,000,414	4,484,552	4,484,552	4,597,639	4,597,639	SE	24.186%	25.322%	1,209,425	1,135,596	1,135,596	1,164,232	1,164,232			
31		<b>1,067,513,408</b>	<b>1,047,876,754</b>	<b>1,042,881,457</b>	<b>1,003,707,270</b>	<b>1,041,523,839</b>				<b>258,194,090</b>	<b>265,347,493</b>	<b>264,082,564</b>	<b>254,162,722</b>	<b>263,738,783</b>			
32		<b>Total Fuel Expense</b>															
33		-	-	(545,317)	(545,317)	(545,317)		As Settled		-	-	(141,911)	(141,911)	(141,911)			
34		<b>Net Power Cost (Per GRID)</b>															
35		<b>1,483,317,604</b>	<b>1,501,455,411</b>	<b>1,481,931,357</b>	<b>1,465,949,855</b>	<b>1,439,988,207</b>				<b>364,652,585</b>	<b>386,252,542</b>	<b>381,108,654</b>	<b>377,379,685</b>	<b>369,922,974</b>			
36		<b>Oregon Situs NPC Adjustments</b>															
37		647,742	645,737	645,737	654,453	499,590	OR	100.000%	100.000%	647,742	645,737	645,737	654,453	499,590			
38		<b>1,483,965,346</b>	<b>1,502,101,148</b>	<b>1,482,577,094</b>	<b>1,466,604,308</b>	<b>1,440,487,798</b>				<b>365,300,327</b>	<b>386,898,278</b>	<b>381,754,391</b>	<b>378,034,138</b>	<b>370,422,564</b>			
39		<b>Total NPC Net of Adjustments</b>															
40		4,944,640	3,414,924	3,414,924	3,052,790	3,079,748	SG	25.741%	26.725%	1,272,777	912,632	912,632	815,852	823,057			
41		(66,634,263)	(22,247,375)	(47,301,476)	(46,799,448)	(37,465,734)	SG	25.741%	26.725%	(17,152,017)	(5,945,568)	(12,641,228)	(12,507,063)	(10,012,645)			
42		<b>1,422,275,724</b>	<b>1,483,268,697</b>	<b>1,438,690,543</b>	<b>1,422,857,650</b>	<b>1,406,101,812</b>				<b>349,421,087</b>	<b>381,865,342</b>	<b>370,025,795</b>	<b>366,342,928</b>	<b>361,232,975</b>			
43		<b>Total TAM Net of Adjustments</b>															
44																	
44									Increase Absent Load Change		32,444,255	20,604,707	16,921,841	11,811,888			
45																	
46									Oregon-allocated NPC (incl. PTC) Baseline in Rates from UE-323		\$349,421,087						
47									\$ Change due to load variance from UE-323 forecast		15,549,436						
48									2019 Recovery of NPC (incl. PTC) in Rates		\$364,970,523						
49		*EIM Benefits for the 2019 TAM are reflected in net power costs															
50		**TAM Settlement UE 339 - Partial Sipulation agreed to decrease Oregon-allocated NPC by \$141,911															
50									<b>Increase Including Load Change</b>		<b>16,894,819</b>	<b>5,055,271</b>	<b>1,372,405</b>	<b>(3,737,548)</b>			
51																	
52									Add Other Revenue Change		(28,433)	(28,433)	(38,719)	(29,375)			
53																	
54									<b>Total TAM Increase/Decrease</b>	<b>\$</b>	<b>16,866,386</b>	<b>\$</b>	<b>5,026,839</b>	<b>\$</b>	<b>1,333,686</b>	<b>\$</b>	<b>(3,766,923)</b>

**PacifiCorp  
CY 2019 TAM  
Production Tax Credits - Stand Alone TAM Adjustment  
Indicative Update**

**PTC Revenue Requirement in UE-323**

Line no	Plant Name	PTC Expiration Date	Total Company		Factor	Factors CY 2018	Oregon Allocated	
			UE-323 Final				UE-323 Final	Revenue Requirement
1	JC Boyle	11/7/2015	\$ -		SG	25.741%	\$ -	\$ -
2	Blundell Bottoming Cycle KWh	12/1/2017	-		SG	25.741%	-	-
3	Glenrock KWh	12/30/2018	(7,949,734)		SG	25.741%	(2,046,304)	(3,293,544)
4	Glenrock III KWh	1/16/2019	(2,985,815)		SG	25.741%	(768,565)	(1,237,012)
5	Goodnoe KWh	12/17/2017	-		SG	25.741%	-	-
6	High Plains Wind	10/14/2019	(7,424,880)		SG	25.741%	(1,911,204)	(3,076,099)
7	Leaning Juniper 1 KWh	9/13/2016	-		SG	25.741%	-	-
8	Marengo KWh	8/2/2017	-		SG	25.741%	-	-
9	Marengo II KWh	6/25/2018	(2,482,279)		SG	25.741%	(638,952)	(1,028,399)
10	McFadden Ridge	10/31/2019	(2,065,509)		SG	25.741%	(531,673)	(855,732)
11	Seven Mile KWh	12/30/2018	(8,359,081)		SG	25.741%	(2,151,672)	(3,463,135)
12	Seven Mile II KWh	12/30/2018	(1,646,541)		SG	25.741%	(423,829)	(682,156)
13	Dunlap I Wind KWh	9/29/2020	(8,486,538)		SG	25.741%	(2,184,480)	(3,515,940)
14								
15	Total Production Tax Credit		<u>\$ (41,400,376)</u>				<u>\$ (10,656,679)</u>	<u>\$ (17,152,017)</u>

**PTC Revenue Requirement CY 2019 - Indicative Update**

Line no	Plant Name	PTC Expiration Date	Repowering In- Service Date	Total Company		Factor	Factors CY 2019	Oregon Allocated	
				CY 2019 Reply				CY 2019 Reply	Revenue Requirement
20	JC Boyle	11/7/2015		\$ -		SG	26.725%	\$ -	\$ -
21	Blundell Bottoming Cycle KWh	12/1/2017		-		SG	26.725%	-	-
22	Glenrock KWh	12/30/2018	10/1/2019	(2,677,520)		SG	26.725%	(715,562)	(948,853)
23	Glenrock III KWh	1/16/2019	8/1/2020	(172,547)		SG	26.725%	(46,113)	(61,147)
24	Goodnoe KWh	12/17/2017	12/1/2019	(400,326)		SG	26.725%	(106,986)	(141,867)
25	High Plains Wind	10/14/2019	12/1/2019	(6,821,943)		SG	26.725%	(1,823,151)	(2,417,543)
26	Leaning Juniper 1 KWh	9/13/2016	10/1/2019	(1,533,630)		SG	26.725%	(409,860)	(543,484)
27	Leaning Juniper Indemnity	9/13/2016	10/1/2019	(19,937)		SG	26.725%	(5,328)	(7,065)
28	Marengo KWh	8/2/2017	12/1/2019	(1,055,916)		SG	26.725%	(282,192)	(374,193)
29	Marengo II KWh	6/25/2018	12/1/2019	(441,520)		SG	26.725%	(117,995)	(156,465)
30	McFadden Ridge	10/31/2019	12/1/2019	(2,102,460)		SG	26.725%	(561,878)	(745,064)
31	Seven Mile KWh	12/30/2018	10/1/2019	(3,098,241)		SG	26.725%	(827,999)	(1,097,947)
32	Seven Mile II KWh	12/30/2018	10/1/2019	(649,037)		SG	26.725%	(173,454)	(230,004)
33	Dunlap I Wind KWh	9/29/2020	12/1/2020	(9,281,107)		SG	26.725%	(2,480,358)	(3,289,015)
34									
35									
36	Total Production Tax Credit			<u>\$ (28,254,184)</u>				<u>\$ (7,550,876)</u>	<u>\$ (10,012,645)</u>

Oregon-allocated PTC Baseline in Rates from UE-323 \$ (17,152,017)  
2019 Recovery of PTC in Rates (10,012,645)

**Oregon-allocated PTC Increase \$ 7,139,371**





# Exhibit E

**PACIFIC POWER**  
**STATE OF OREGON**  
**Schedule 201 Rates to be Effective January 1, 2019 through UE 323 TAM**  
**INDICATIVE**

Delivery Service Schedule	Rate Block/ Lamp Type	Schedule 201 Rates		
		Secondary	Primary	Transmission
4	1st Block (≤1,000 kWh)	2.597		per kWh
	2nd Block (>1,000 kWh)	3.548		per kWh
23	1st 3,000 kWh	2.876	2.786	per kWh
	All Addl kWh	2.133	2.067	per kWh
28	1st 20,000 kWh	2.813	2.708	per kWh
	All Addl kWh	2.736	2.636	per kWh
30	1st 20,000 kWh	3.007	2.974	per kWh
	All Addl kWh	2.607	2.570	per kWh
41	Wint 1st 100kWh/kW	4.016	3.886	per kWh
	Wint All Addl kWh	2.737	2.650	per kWh
	Summer kWh	2.737	2.650	per kWh
47/48	On-Peak kWh	2.652	2.460	2.310 per kWh
	Off-Peak kWh	2.602	2.410	2.260 per kWh
15		2.163		
	MV 7,000L	\$1.64		per lamp
	MV 21,000L	\$3.72		per lamp
	MV 55,000L	\$8.91		per lamp
	HPS 5,800L	\$0.67		per lamp
	HPS 22,000L	\$1.84		per lamp
	HPS 50,000L	\$3.81		per lamp
50		1.784		
	MV 7,000L	\$1.36		per lamp
	MV 21,000L	\$3.07		per lamp
	MV 55,000L	\$7.35		per lamp
51		2.814		
	LED 4,000L/100 W(comp)	\$0.53		per lamp
	LED 6,200L/150 W(comp)	\$0.76		per lamp
	LED 13,000L/250 W(comp)	\$1.44		per lamp
	LED 16,800L/400 W(comp)	\$1.94		per lamp
	HPS 5,800L/70W	\$0.87		per lamp
	HPS 9,500L/100W	\$1.24		per lamp
	HPS 16,000L/150W	\$1.80		per lamp
	HPS 22,000L/200W	\$2.39		per lamp
	HPS 27,500L/250W	\$3.24		per lamp
	HPS 50,000L/400W	\$4.95		per lamp
	MH 12,000L/175W	\$1.91		per lamp
	MH 19,500L/250W	\$2.65		per lamp
	52	Dusk to Dawn	2.156	
Dusk to Midn.		2.156		per kWh
53		0.918		
	HPS 5,800L/70W	\$0.28		per lamp
	HPS 9,500L/100W	\$0.40		per lamp
	HPS 16,000L/150W	\$0.59		per lamp
	HPS 22,000L/200W	\$0.78		per lamp
	HPS 27,500L/250W	\$1.06		per lamp
	HPS 50,000L/400W	\$1.62		per lamp
	MH 9,000L/100W	\$0.36		per lamp
	MH 12,000L/175W	\$0.62		per lamp
	MH 19,500L/250W	\$0.86		per lamp
	MH 32,000L/400W	\$1.37		per lamp
	MH 107,800L/1,000W	\$3.25		per lamp
	Non-Listed	0.918		per kWh
54	All kWh	1.586		per kWh

PACIFIC POWER  
STATE OF OREGON

**One-Year Option - Transition Adjustments (cents/kWh)  
November 2018 Indicative Transition Adjustments**

	23/723 Secondary		23/723 Primary		28/728 Secondary		28/728 Primary		30/730 Secondary	
	HLH	LLH	HLH	LLH	HLH	LLH	HLH	LLH	HLH	LLH
Jan-19	-2.933	-2.703	-2.930	-2.871	-2.897	-2.633	-3.021	-2.717	-2.981	-2.751
Feb-19	-1.483	-1.492	-1.561	-1.098	-1.398	-1.415	-1.495	-1.591	-1.512	-1.548
Mar-19	-0.066	0.294	-0.664	-0.152	0.027	0.409	-0.068	0.272	-0.128	0.261
Apr-19	0.354	0.489	0.336	0.353	0.442	0.558	0.304	0.441	0.314	0.430
May-19	0.850	0.784	0.746	0.626	0.896	0.857	0.770	0.731	0.772	0.726
Jun-19	-0.019	-0.279	0.054	0.006	0.048	0.147	-0.149	0.006	-0.089	-0.306
Jul-19	-2.497	-1.858	-5.012	-1.761	-2.294	-1.866	-2.350	-1.862	-2.389	-1.760
Aug-19	-3.695	-2.575	-2.454	-2.574	-3.563	-2.469	-3.658	-2.596	-3.660	-2.564
Sep-19	-1.185	-1.066	-1.333	-1.202	-1.116	-0.994	-1.186	-1.108	-1.242	-1.122
Oct-19	0.176	-0.101	0.053	-0.281	0.226	-0.027	0.087	-0.144	0.100	-0.154
Nov-19	-0.440	-0.287	-0.617	-0.434	-0.350	-0.201	-0.468	-0.324	-0.483	-0.330
Dec-19	-0.366	-0.679	-0.497	-0.855	-0.298	-0.610	-0.447	-0.700	-0.347	-0.698

	30/730 Primary		41/741 Secondary		41/741 Primary		47/747,48/748 Secondary		47/747,48/748 Primary	
	HLH	LLH	HLH	LLH	HLH	LLH	HLH	LLH	HLH	LLH
Jan-19	-3.076	-2.780					-2.207	-2.591	-3.144	-2.990
Feb-19	-1.580	-1.607					-1.043	-1.498	-1.733	-1.778
Mar-19	-0.167	0.222					-0.516	-0.487	-0.675	0.006
Apr-19	0.270	0.386	0.153	0.571	0.077	0.495	0.259	0.390	0.107	0.210
May-19	0.730	0.687	0.889	0.806	0.813	0.730	0.754	0.692	0.553	0.491
Jun-19	-0.128	-0.027	-0.027	0.162	-0.103	0.086	-0.230	0.036	-0.314	-0.477
Jul-19	-2.488	-1.923	-2.865	-1.938	-2.941	-2.014	-2.891	-2.046	-2.614	-1.992
Aug-19	-3.696	-2.625	-3.259	-2.217	-3.335	-2.294	-3.384	-2.355	-3.875	-2.783
Sep-19	-1.293	-1.166	-1.138	-1.014	-1.214	-1.090	-1.287	-1.123	-1.456	-1.346
Oct-19	0.061	-0.192	0.156	-0.075	0.080	-0.151	0.117	-0.204	-0.102	-0.388
Nov-19	-0.523	-0.367					-0.654	-0.377	-0.729	-0.561
Dec-19	-0.473	-0.739					0.403	-0.656	-0.535	-0.897

	47/747,48/748 Transmission		51/751		52/752		53/753		54/754	
	HLH	LLH	HLH	LLH	HLH	LLH	HLH	LLH	HLH	LLH
Jan-19	-3.082	-2.941	-2.760	-2.576	-3.433	-3.249	-4.699	-4.515	-4.016	-3.832
Feb-19	-1.722	-1.787	-1.367	-1.387	-2.040	-2.060	-3.307	-3.327	-2.623	-2.644
Mar-19	-0.430	-0.133	0.020	0.329	-0.653	-0.344	-1.920	-1.611	-1.236	-0.927
Apr-19	0.020	0.129	0.518	0.590	-0.155	-0.083	-1.422	-1.349	-0.738	-0.666
May-19	0.460	0.398	0.938	0.872	0.264	0.199	-1.002	-1.068	-0.319	-0.385
Jun-19	-0.378	-0.523	0.041	-0.100	-0.633	-0.774	-1.899	-2.040	-1.216	-1.357
Jul-19	-3.940	-2.033	-2.207	-1.585	-2.881	-2.259	-4.147	-3.525	-3.464	-2.842
Aug-19	-3.821	-2.786	-3.465	-2.399	-4.138	-3.072	-5.405	-4.339	-4.721	-3.655
Sep-19	-1.533	-1.385	-1.120	-0.971	-1.793	-1.645	-3.060	-2.911	-2.376	-2.228
Oct-19	-0.172	-0.447	0.242	-0.006	-0.431	-0.680	-1.697	-1.946	-1.014	-1.263
Nov-19	-0.758	-0.629	-0.316	-0.181	-0.989	-0.855	-2.256	-2.121	-1.572	-1.438
Dec-19	-0.591	-0.994	-0.170	-0.573	-0.843	-1.247	-2.110	-2.513	-1.426	-1.830

PACIFIC POWER  
STATE OF OREGON

**Three-Year Option - Transition Adjustments (cents/kWh)  
For Customers Electing Option During the November 2018 Window  
November 2018 Indicative Transition Adjustments**

**Adjustments for Consumers Electing This Option for 2019-2021**

	30/730 Secondary		30/730 Primary	
	HLH	LLH	HLH	LLH
2019	-0.900	-0.944	-0.951	-0.969
2020	-0.863	-0.604	-0.908	-0.618
2021	-0.969	-0.871	-1.020	-0.880

	47/747, 48/748 Secondary		47/747, 48/748 Primary		47/747, 48/748 Transmission	
	HLH	LLH	HLH	LLH	HLH	LLH
2019	-0.909	-0.947	-1.147	-1.183	-1.241	-1.289
2020	-0.981	-0.673	-1.133	-0.902	-1.089	-1.000
2021	-1.082	-1.053	-1.212	-1.131	-1.209	-1.280

PACIFIC POWER  
 STATE OF OREGON

**Five-Year Option - Transition Adjustments (cents/kWh) and  
 Consumer Opt-Out Charge (cents/kWh) For Customers Electing  
 Option During the November 2018 Window  
 November 2018 Indicative Transition Adjustments**

**Adjustments for Consumers Electing This Option for Service Beginning January 1, 2019**

**Transition Adjustments (cents/kWh)**

	<b>730 Secondary</b>	<b>730 Primary</b>	<b>747, 748 Secondary</b>	<b>747, 748 Primary</b>	<b>747, 748 Transmission</b>
<b>2019</b>	-0.524	-0.566	-0.555	-0.753	-0.802
<b>2020</b>	-0.343	-0.383	-0.373	-0.562	-0.613
<b>2021</b>	-0.533	-0.574	-0.564	-0.760	-0.808
<b>2022</b>	-0.549	-0.593	-0.582	-0.791	-0.842
<b>2023</b>	-0.538	-0.584	-0.572	-0.791	-0.846

**Consumer Opt-Out Charge (cents/kWh)**

	<b>730 Secondary</b>	<b>730 Primary</b>	<b>747, 748 Secondary</b>	<b>747, 748 Primary</b>	<b>747, 748 Transmission</b>
<b>2019-2023</b>	1.580	1.509	1.563	1.239	1.032