

Confidential per WAC 480-07-160  
Exh. TJH-4C  
Docket UE-19\_\_\_\_  
Witness: Timothy J. Hemstreet

**BEFORE THE WASHINGTON  
UTILITIES AND TRANSPORTATION COMMISSION**

WASHINGTON UTILITIES AND  
TRANSPORTATION COMMISSION,

Complainant,

v.

PACIFICORP dba  
PACIFIC POWER & LIGHT COMPANY

Respondent.

Docket UE-19\_\_\_\_

**PACIFICORP**

**REDACTED EXHIBIT OF TIMOTHY J. HEMSTREET**

**Repowering Project Details, Capital Costs, and In-Service Dates**

**December 2019**

CONFIDENTIAL

# PacifiCorp Wind Fleet Repowering

Repowering Project Details, Capital Costs, and In-Service Dates

Project #	Wind Project	Existing WTs	WTGs to be Repowered	Existing Project Capacity (MW)	Post-Repowering Capacity (MW)	Increased Deliverable Capacity (MW)	Repowering In-Service Date*	Existing Generation (MWh)**	Estimated Generation Increase (%)	Incremental Energy (MWh)	Repowered Project Generation (MWh)	Capital Cost (\$m)
[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]
Wyoming Projects												
1	Footo Creek I	68	13	40.8	41.4	0.6	12/1/2020					
2	Glenrock I	66	58	99.0	99.0	0.0	9/24/2019					
3	Glenrock III	26	20	39.0	39.0	0.0	11/21/2019					
4	Rolling Hills	66	48	99.0	99.0	0.0	10/17/2019					
5	Seven Mile Hill I	66	66	99.0	99.0	0.0	9/9/2019					
6	Seven Mile Hill II	13	13	19.5	19.5	0.0	9/9/2019					
7	High Plains	66	66	99.0	99.0	0.0	12/20/2019					
8	McFadden Ridge	19	19	28.5	28.5	0.0	11/15/2019					
9	Dunlap I	74	74	111.0	111.0	0.0	10/15/2020					
		<b>464</b>	<b>377</b>	<b>634.8</b>	<b>635.4</b>	<b>0.6</b>						
Washington Projects												
10	Marengo I	78	78	140.4	156.0	15.6	12/29/2019					
11	Marengo II	39	39	70.2	78.0	7.8	12/29/2019					
12	Goodnoe Hills	47	47	94.0	94.0	0.0	12/14/2019					
		<b>164</b>	<b>164</b>	<b>304.6</b>	<b>328.0</b>	<b>23.4</b>						
Oregon Project												
13	Leaning Juniper	67	67	100.5	100.5	0.0	9/13/2019					
	<b>TOTAL</b>	<b>695</b>	<b>608</b>	<b>1,039.9</b>	<b>1,063.9</b>	<b>24.0</b>					<b>27.2%</b>	<b>813,757</b>

\* Dates after November 30, 2019 are estimated in-service dates, earlier dates reflect actual commercial operations dates for repowered projects.  
 \*\* Average long-term generation from first full year of facility operation through 2016 (prior to repowering project).

Annual generation from projects with PTCs expiring between May 2018 and October 2020 (MWh)	<b>2,275,146</b>
2019 PTC Value (\$/MWh)	<b>\$25.00</b>
PacifiCorp effective combined federal and state income tax rate	<b>24.587%</b>
Effective value of PTC to customers (\$/MWh)	<b>\$33.15</b>
Loss in customer PTC benefits with expiration of original PTCs from wind plants (2019\$)	<b>\$ 75,422,871</b>