

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					
		464	377	634.8	635.4	0.6						
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					
		164	164	304.6	328.0	23.4						
Oregon Project												
13	Leaning Juniper	67	67	100.5	100.5	0.0	9/13/2019					
	TOTAL	695	608	1,039.9	1,063.9	24.0					27.2%	813,757

* 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)	2,275,146
2019 PTC Value (\$/MWh)	\$25.00
PacifiCorp effective combined federal and state income tax rate	24.587%
Effective value of PTC to customers (\$/MWh)	\$33.15
Loss in customer PTC benefits with expiration of original PTCs from wind plants (2019\$)	\$ 75,422,871