

July 11, 2018

***VIA ELECTRONIC FILING***

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

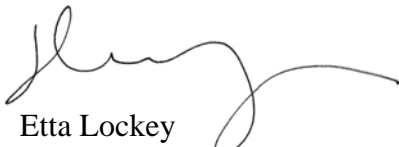
Attn: Filing Center

**RE: LC 67—PacifiCorp's Compliance Filing—New Wind and Transmission Projects  
Quarterly Update**

PacifiCorp d/b/a Pacific Power provides the attached report to the Public Utility Commission of Oregon (Commission) and staff, in compliance with Order No. 18-138, to provide quarterly updates to the Commission and staff as the development of the new wind projects from the 2017R Request for Proposals and transmission projects proceed.

Please direct any questions regarding this report to Natasha Siores, Manager, Regulatory Affairs, at (503) 813-6583.

Sincerely,



Etta Lockey  
Vice President, Regulation

cc: Caroline Moore, OPUC Staff



# New Wind & Transmission Projects Quarterly Update

Public Utility Commission of Oregon  
First Quarter 2018



# 2017 IRP OPUC Acknowledgement Order



- 2017 IRP Acknowledgement Order, Docket LC 67, Appendix A:  
Provide quarterly updates to the Commission and Staff as development of the projects chosen in the 2017R RFP and the transmission projects proceed (through the date the projects go into service).

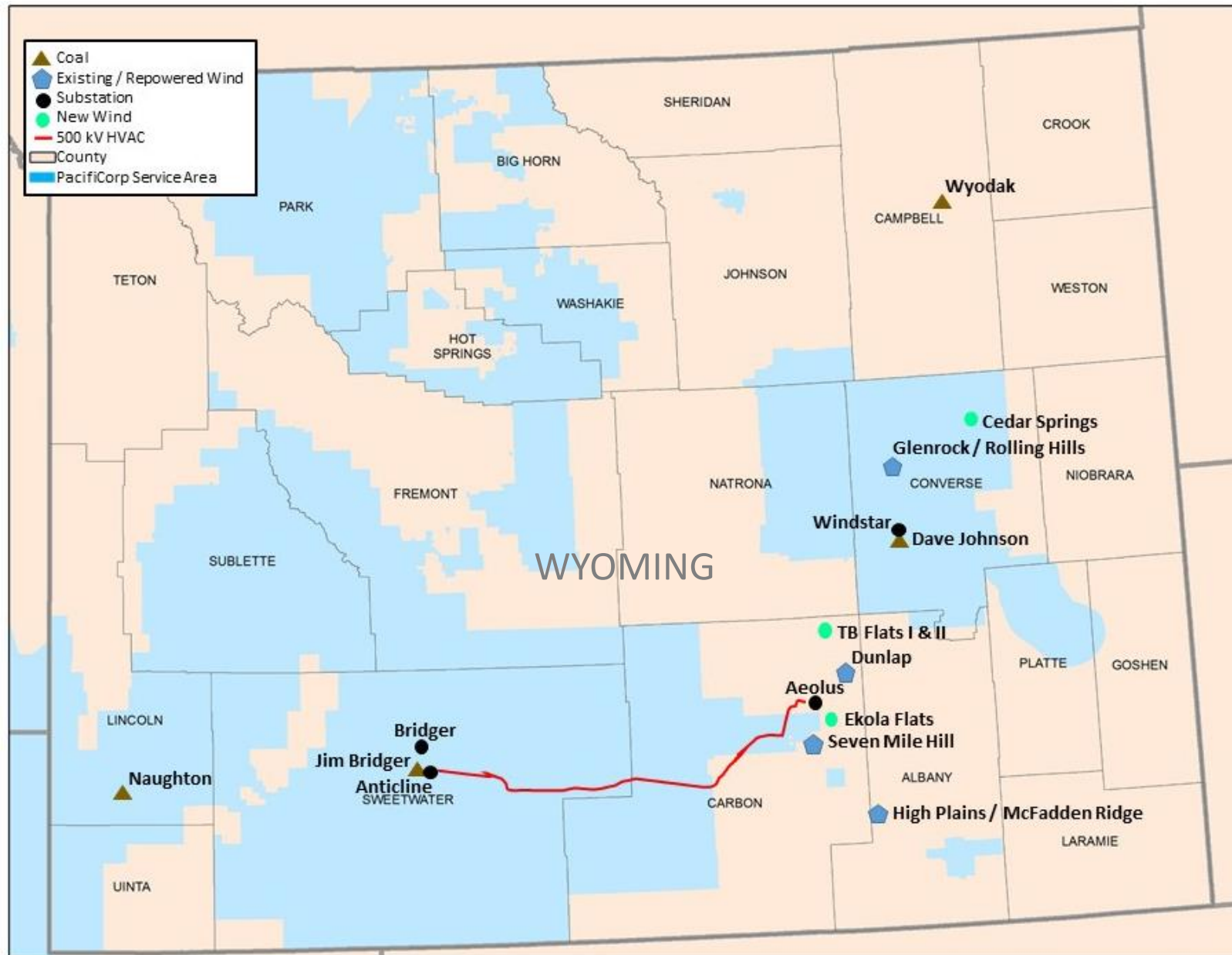
# 2017R RFP Final Shortlist Status Update



Project Name	Bidder	Location	Structure	Capacity (MW)
TB Flats I & II	PacifiCorp self-build benchmark; developed by Invenergy	Carbon County, WY	Balance of plant EPC; stand-alone TSA	500
Cedar Springs	NextEra development acquisition (Orion) and construction	Converse County, WY	50% build-transfer / 50% power purchase	400
Ekola Flats	PacifiCorp self-build benchmark; developed by Invenergy	Carbon County, WY	Balance of plant EPC; stand-alone TSA	250
Uinta <sup>1</sup>	Invenergy development and construction	Uinta County, WY	Build-transfer	161

<sup>1</sup>The Uinta project has been removed from consideration as part of the 2017R RFP and the Energy Vision 2020 projects in PacifiCorp's various regulatory proceedings. The project developer has been advised of this outcome and will independently determine its most appropriate development path going forward.

# 2017R RFP Wind Project Locations



# 2017R RFP Wind Projects Status Update

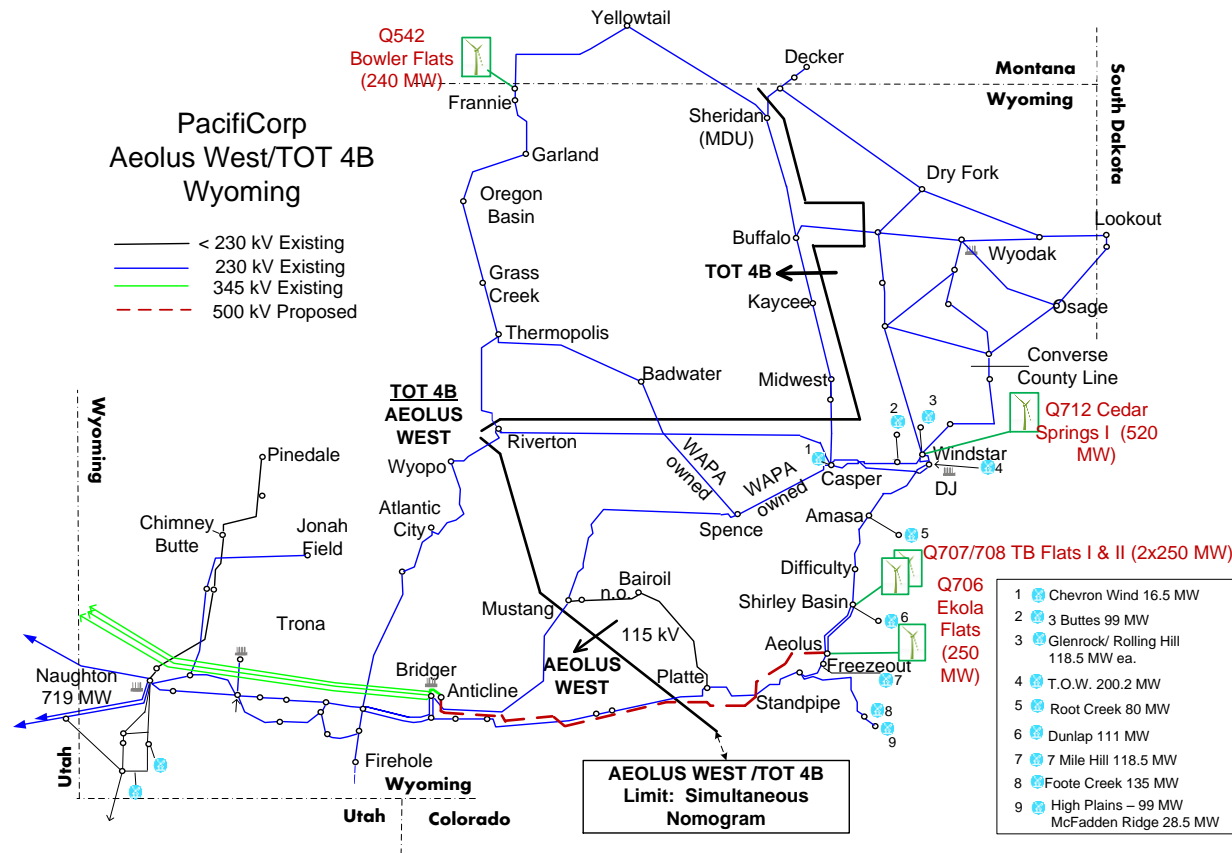


	TB Flats I & II (PacifiCorp)	Ekola Flats (PacifiCorp)	Cedar Springs (NextEra)
<b>Interconnection</b>	Shirley Basin POI; SIS complete; LGIA in process	Aeolus POI; LGIA executed	Windstar POI; SIS complete
<b>Safe Harbor Turbines</b>	Assigned and documented	Assigned and documented	Assigned and documented, site identification verification in progress
<b>Site Control</b>	50,000 acres private/state leases acquired; gen-tie right-of-way in progress	17,000 acres private/state leases acquired; gen-tie right-of-way in progress	70,000 acres private leases acquired; gen-tie right-of-way in progress
<b>Permitting Status</b>	Permitting in process and on schedule; industrial siting and conditional use permits received	Permitting in process and on schedule; conditional use permit received; industrial siting application filed	Permitting in process and on schedule; conditional use permit application expected to be filed Q3 2018; industrial siting permit application expected to be filed Q1 2019
<b>Avian Data Collection / Permitting</b>	Underway (24 Months); agency consultation underway	Underway (24 Months); agency consultation underway	Underway (24 Months); agency consultation underway
<b>Contracts</b>	Balance of plant EPC contract execution ready mid-July; TSA agreement execution ready late-July	Balance of plant EPC contract execution ready mid-July; TSA agreement execution ready late-July	Build-transfer agreement and power purchase agreement execution ready late-July
<b>Upcoming Milestones</b>	EPC full notice to proceed April 1, 2019	EPC full notice to proceed April 1, 2019	Submit ISC permit application March 25, 2019; BTA firm date before March 31, 2020
<b>Outreach / Community Engagement</b>	Public meetings for permit applications	Aeolus bridge dedication (Carbon County, WY) July 31, 2018	Wyoming state fair sponsor





# New Transmission/New Wind - Wyoming







# New Transmission

## Aeolus-to-Bridger/Anticline (Energy Gateway, Segment D2)

- New 140-mile, 500 kilovolt transmission line and new Aeolus and Anticline substations
- New 5-mile, 345 kilovolt Anticline-to-Jim Bridger line; including modifications at Jim Bridger substation
- New voltage control device at Latham substation

## Network Upgrades

- New 16-mile, 230 kilovolt line from Shirley Basin to proposed Aeolus substation, with substation modifications (TB Flats I & II)
- Reconstruction of 16-mile, 230 kilovolt Shirley Basin-Freezeout-Aeolus line, with substation modifications (Cedar Springs)
- Reconstruction of 15-mile, 230 kilovolt Freezeout-Standpipe-Aeolus line, with substation modifications (Cedar Springs)

# Transmission Status Update



## Complete

- Preliminary technical studies evaluating a wide range of system conditions to support integration of new wind, focusing on Segment D2 facilities.
  - Demonstrated Aeolus West path 1829 MW with 1510 MW of new wind
- Interconnection studies evaluating TB Flats I&II, Cedar Springs and Ekola Flats, including assessment of updated wind models (power flow and dynamic stability)
- Technical studies demonstrating expected performance of the Latham Static VAr Compensator (SVC) for a wide range of system conditions and supporting SVC specification development efforts
- Subsynchronous resonance (SSR) and subsynchronous control interaction (SSCI) study

## In-Process

- Detailed PSCAD modeling of wind facilities and new transmission
- Design of new Aeolus remedial action scheme (RAS) & modification of Bridger (C/D) RAS
- SVC specification development, including PSCAD modeling

## Future

- Aeolus West Path Rating:
  - Western Electricity Coordinating Council FAC-013-2 transfer capability assessment studies
  - Peak Reliability Coordinator (RC) System Operating Limit (SOL) studies

# Wyoming Permitting Overview



- National Environmental Policy Act
  - Element of Gateway West segment D, Record of Decision November 2013
  - Plan of Development and Mitigations, currently in final development
- Certificate of Public Convenience and Necessity
  - Filed June 30, 2017, Bench Order approval issued April 12, 2018
- Conditional Use Permit (Carbon County)
  - Application submitted May 22, 2018
- Wyoming Industrial Siting Permit
  - Planned application Summer 2018; decision expected October 2018
- Anticipated Construction award December 2018
- Construction to start April 1, 2019