

August 2, 2019

***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. This report includes the update for the second quarter of 2019. Updates from the first quarter report have been provided in redline.

Please direct any questions regarding this report to Cathie Allen, Manager, Regulatory Affairs, at (503) 813-5934.

Sincerely,



Etta Lockey  
Vice President, Regulation

cc: JP Batmale, OPUC Staff



# New Wind & Transmission Projects Quarterly Update

Public Utility Commission of Oregon  
Second Quarter 2019

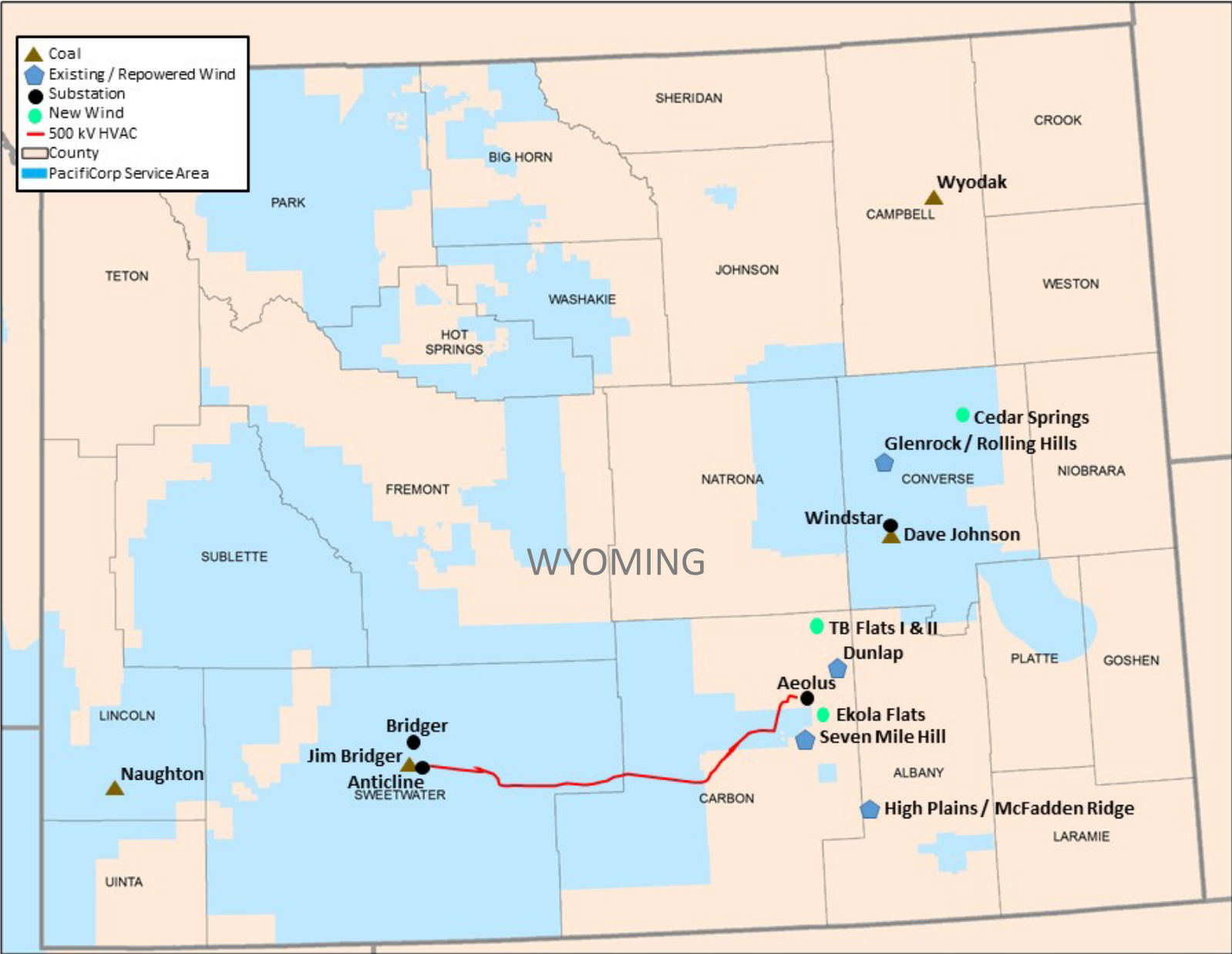


# 2017 IRP OPUC Acknowledgement Order



- 2017 IRP Acknowledgement Order, Order No. 18-138, 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 Wind Project Locations

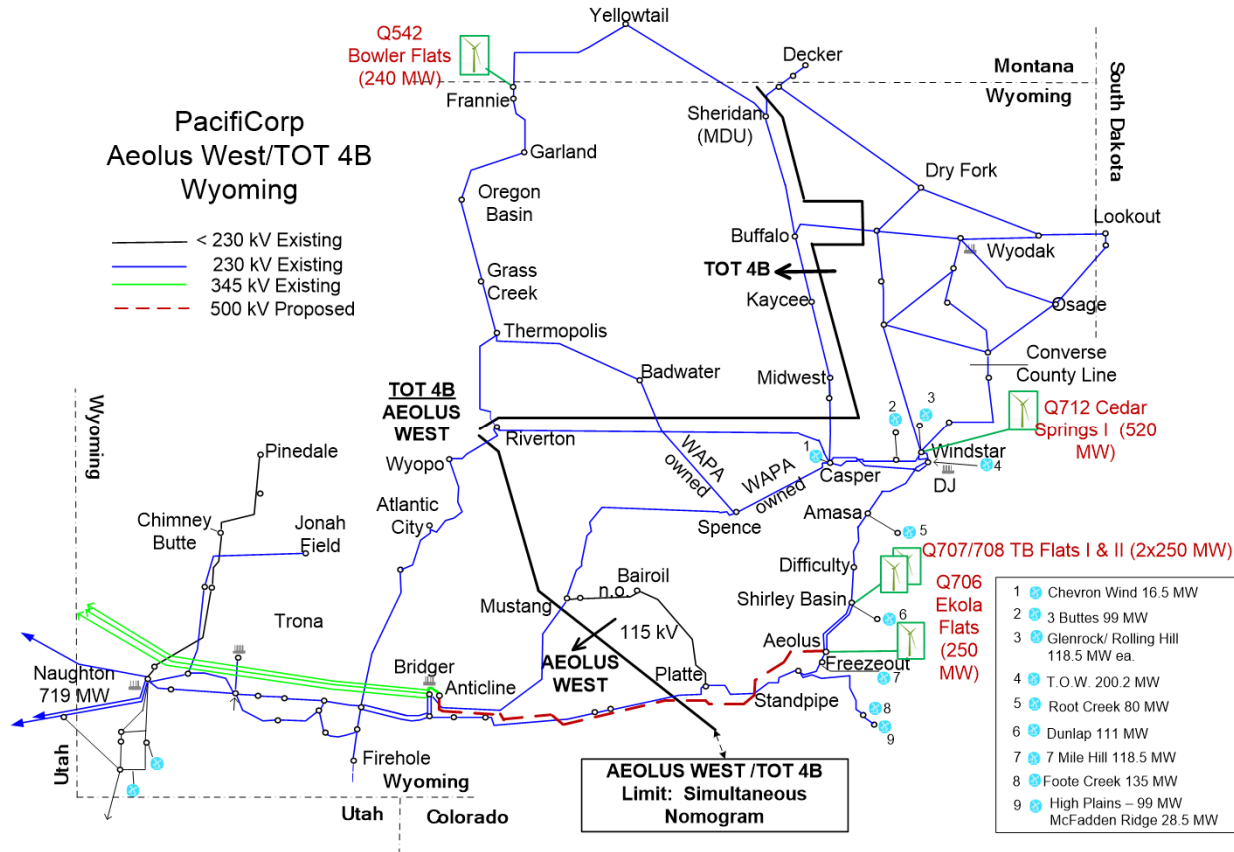


# 2017R RFP Wind Projects Status Update



	TB Flats I & II (PacifiCorp)	Ekola Flats (PacifiCorp)	Cedar Springs (NextEra)
<b>Interconnection</b>	Shirley Basin POI; LGIA <b>executed</b>	Aeolus POI; LGIA executed	Windstar POI; LGIA <b>executed</b> ; an <b>amended and restated LGIA submitted for FERC approval in July 2019</b>
<b>Safe Harbor Turbines</b>	Assigned and documented	Assigned and documented	Assigned and documented
<b>Site Control</b>	50,000 acres private/state leases acquired; gen-tie right-of-way <b>acquired</b>	17,000 acres private/state leases acquired; gen-tie right-of-way <b>acquired</b>	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; industrial siting and conditional use permits received	Permitting in process and on schedule; industrial siting <b>and conditional use permits received</b>
<b>Avian Data Collection / Permitting</b>	Underway (24 Months); agency consultation <b>continues</b>	Underway (24 Months); agency consultation <b>continues</b>	Underway (24 Months); agency consultation <b>continues</b>
<b>Contracts</b>	Balance of plant EPC contract executed in August 2018 with <b>FNTP issued in April 2019</b>	Balance of plant EPC contract executed in August 2018 with <b>FNTP issued in April 2019</b>	Build-transfer agreement and power purchase agreement executed on October 19, 2018
<b>Upcoming Milestones</b>	<b>Complete TB I collector substation foundations September 2019</b>	<b>First WTG foundation concrete placement October 2019</b>	<b>BTA Firm Date August 2019</b>
<b>Outreach / Community Engagement</b>	Support Industrial <b>Siting Permit Conditions</b>	Support Industrial <b>Siting Permit Conditions</b>	<b>Support Industrial Siting Permit Conditions</b>

# Transmission/New Wind - Wyoming



# Transmission Work-scope Overview



## 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-Aeolus line, with substation modifications (Cedar Springs)
- Reconstruction of 4-mile, 230 kilovolt Aeolus-Freezeout line, with substation modifications (Cedar Springs)
- Reconstruction of 12-mile, 230 kilovolt Freezeout-Standpipe line, with substation modifications (Cedar Springs)
- 230 kilovolt Shunt Capacitor additions at Frannie, Grass Creek and Hill Top substations

# Transmission Planning Update



## Complete

- Updating the power system model for Wyoming to include the PacifiCorp 2017R RFP short list resources as well as the latest computer model for the Vestas V136-4.3 MW wind turbines
- Completed the detailed analysis for both the Standpipe, Aeolus and Bridger (C/D) remedial action schemes (RASs) as well as engineering review of the three RAS schemes and initial presentation to WECC RAS Reliability Subcommittee (RASRS)
- Completed the Investment Appraisal Document (IAD) for replacing the dynamic line rating equipment on the Platte – Standpipe 230 kV line with newer technology equipment. (This dynamic line rating is key to achieving necessary transfers on the Aeolus West transmission path.)

## In-Process

- Design of the Aeolus Area Voltage Control Scheme – utilizing wind farm dynamic reactive capabilities
- ~~– Engineering review and design of Aeolus RAS and Bridger (C/D) RAS schemes~~
- ~~– Review of SVC proposals from multiple bidders~~
- Coordination between Transmission Planning and Grid Operations **is continuing** to assure a smooth operational transition from project pre-D.2 project to the post-D.2 project configuration
- Aeolus West FAC-013-2 Assessment of Transfer Capability (effective summer 2021)

## Future

- Approval of the Aeolus RAS and modifications to the **Standpipe and Bridger (C/D) RAS** by the WECC ~~Remedial Action Scheme Reliability Subcommittee (RASRS)~~
- Aeolus West Path Rating:
  - ~~▪ Western Electricity Coordinating Council FAC-013-2 transfer capability assessment studies~~
  - California ISO – RC West System Operating Limit (SOL) studies



# Transmission Project Status Update



- National Environmental Policy Act
  - 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
  - Written Order issued October 8, 2018
- Conditional Use Permit (Carbon County)
  - Application submitted May 22, 2018
  - Board of County Commissioners approval September 4, 2018
- Wyoming Industrial Siting Permit
  - Application submitted July 30, 2018
  - Industrial Siting Council approval October 26, 2018
- Aeolus to Bridger transmission line construction contract awarded November 2018
- Aeolus to Bridger substations construction contract awarded November 2018
- SVC (Latham Device) contract awarded ~~ed anticipated~~ February 2019
- Aeolus to Bridger construction ~~to start~~ began April 9, 2019
- 230 kilovolt Shunt Capacitor procurement Q3 2019, construction 2020