

# Pacific DC Intertie Upgrade

Customer Forum 36

October 25, 2012



# Celilo Converter Station



# PDCI Upgrade Project

- Replace aging Celilo 4 converter terminal with a new 2 converter terminal rated  $\pm 560\text{kV}$  and 3410A and upgrade Celilo-NOB transmission line insulators.
- Reliability driven project – must replace older unsupported technologies to maintain reliability.
- Initial upgrade to 3220MW with opportunity to increase PDCI to 3800MW N-S.

# Upgrade Benefits

- Reduce O&M costs by 30%.
- Lower losses / Increased capacity N-to-S
- Less frequent maintenance outages.
- One manufacturer technology and less equipment improves reliability, availability and maintainability.
- Simpler configuration could facilitate remote operation and dynamic scheduling.
- Substantial reduction in spare parts inventory.
- Improved access roads provide faster, less disruptive routes for line maintenance crews

# Upgrade Schedule

- Upgrade will be completed January 2016 and operate initially at 3220MW.
- Award HVDC Supplier contract January 2013.
  - Contract implementation contingent on environmental study results
  - Environmental Assessment (EA) now underway
- PDCI curtailment to 2000MW November 2014 to November 2015 to allow for construction.
- PDCI complete outage - 0MW December to January 2016 for commissioning and testing.

# Public Involvement Process

- Completed successful public scoping meetings
  - Lakeview (Oct. 9), Prineville (Oct. 10), The Dalles (Oct. 11)
- Public scoping comment period closes Oct. 29
- Release preliminary EA in spring 2012
  - Will seek public review during comment period
  - Will consider additional public meetings to support release
- Release final EA and announce project decision in fall 2013
- Proposed start of construction activities on DC line in fall 2013
- Proposed start of construction activities at Celilo Substation in January, 2015
  - Will consider additional public meeting in The Dalles, fall 2014