

Big Eddy-Knight 500kV Transmission Line Project

Transmission Customer
Forum 41

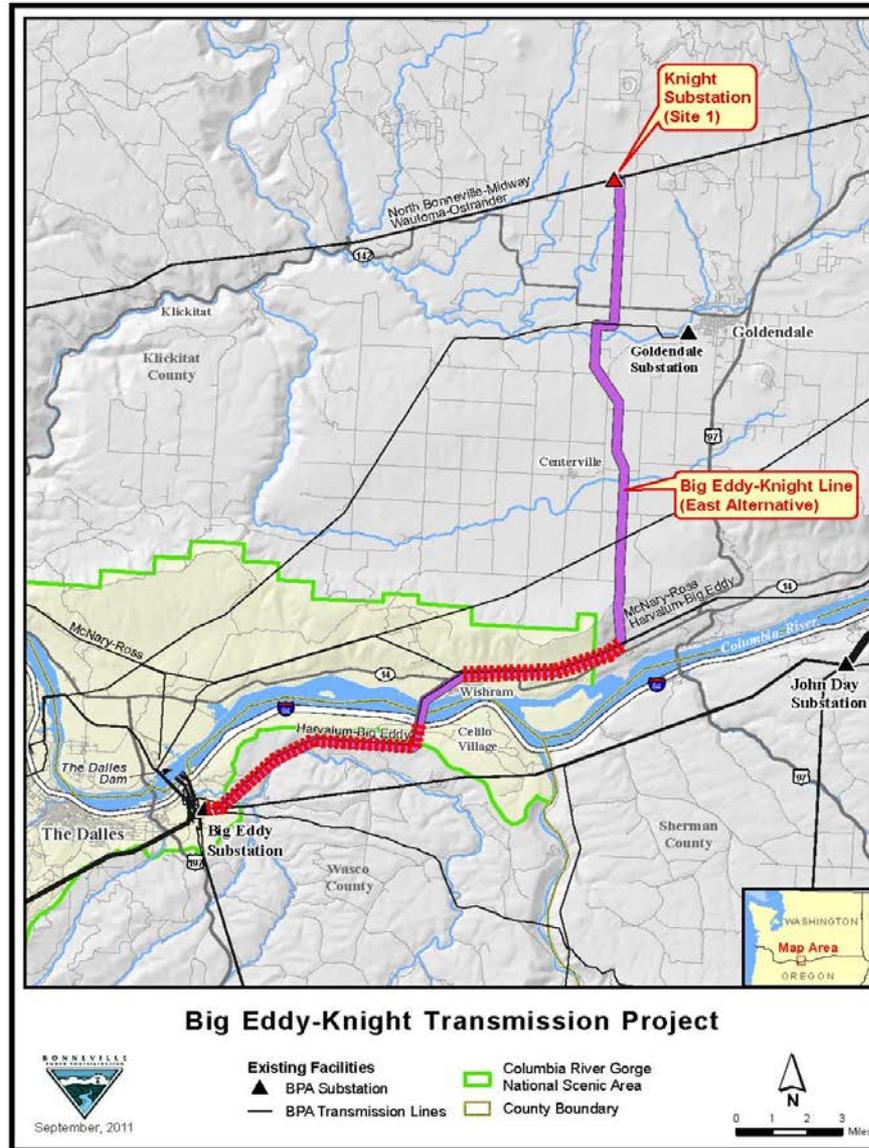
Presentation Objectives

- Provide an update on the BEK project
- Discuss the current project challenges
- Present existing construction schedule
- Provide project timeline



Project Background

- Based on the Network Open Season marketing processes conducted in 2008, BPA had determined a need to increase the capacity of the 500kV transmission system in the proposed project area to respond to request that BPA has received to move power across its system.
- The need was partly due to wind generation facilities in the region, which have greatly increased the amount of power being produced east of the Cascade Mountains. This power is needed to move to the load center west of the Cascades, but there is not sufficient capacity available on BPA's existing transmission lines.
- BPA system studies indicated a new transmission line and facilities was in need or BPA's transmission system would likely become overloaded at certain times of the year.
- The 28 mile 500kV transmission line between The Dalles, OR and Goldendale, WA referred to as Big Eddy-Knight will add the needed capacity to move the power west of the Cascades.





Project Scope

- Build new 28 miles 500kV transmission line between The Dalles, OR and Goldendale, WA.
- Build a new 500kV, breaker-and-a half, substation called Knight Substation.
- Install a 500kV bay at existing Big Eddy 500kV substation.
- Install 72 miles of single mode fiber between Knight Substation and Wautoma Substation.
- Install a 500kV reactor bank at Wautoma Substation.

Project Update

- Built and energized new bay addition at Big Eddy Substation.
- Built new 500kV Knight Substation.
- Erected all the towers and strung seven miles of conductor on the Oregon side (up to the river crossing).
- Erected all the towers and strung the conductor for miles 10 thru miles 15. Erected all the towers from miles 15 thru 29.
- Obtained the required construction rights on all land parcels.
- Completed the installation of reactor at Wautoma Substation.
- River crossing work has commenced.



Project Completion

- New Knight Substation: 95% complete.
- New bay addition @ Big Eddy Substation: 95% complete.
- Double circuit towers on the Oregon side: 100% complete.
- River crossing work: 40% complete.
- Towers from miles 8 through 10: 80% complete.
- Towers from miles 10 through 15: 100% complete.
- Towers from 15 through 28: 100% complete.
- Reactor installation at Wautoma Substation: 75% complete.
- Knight-Wautoma fiber installation: 25% complete.
 - Note: The reactor and K-W fiber work is not a critical path element to energize the line.



01/11/2013











Questions?

