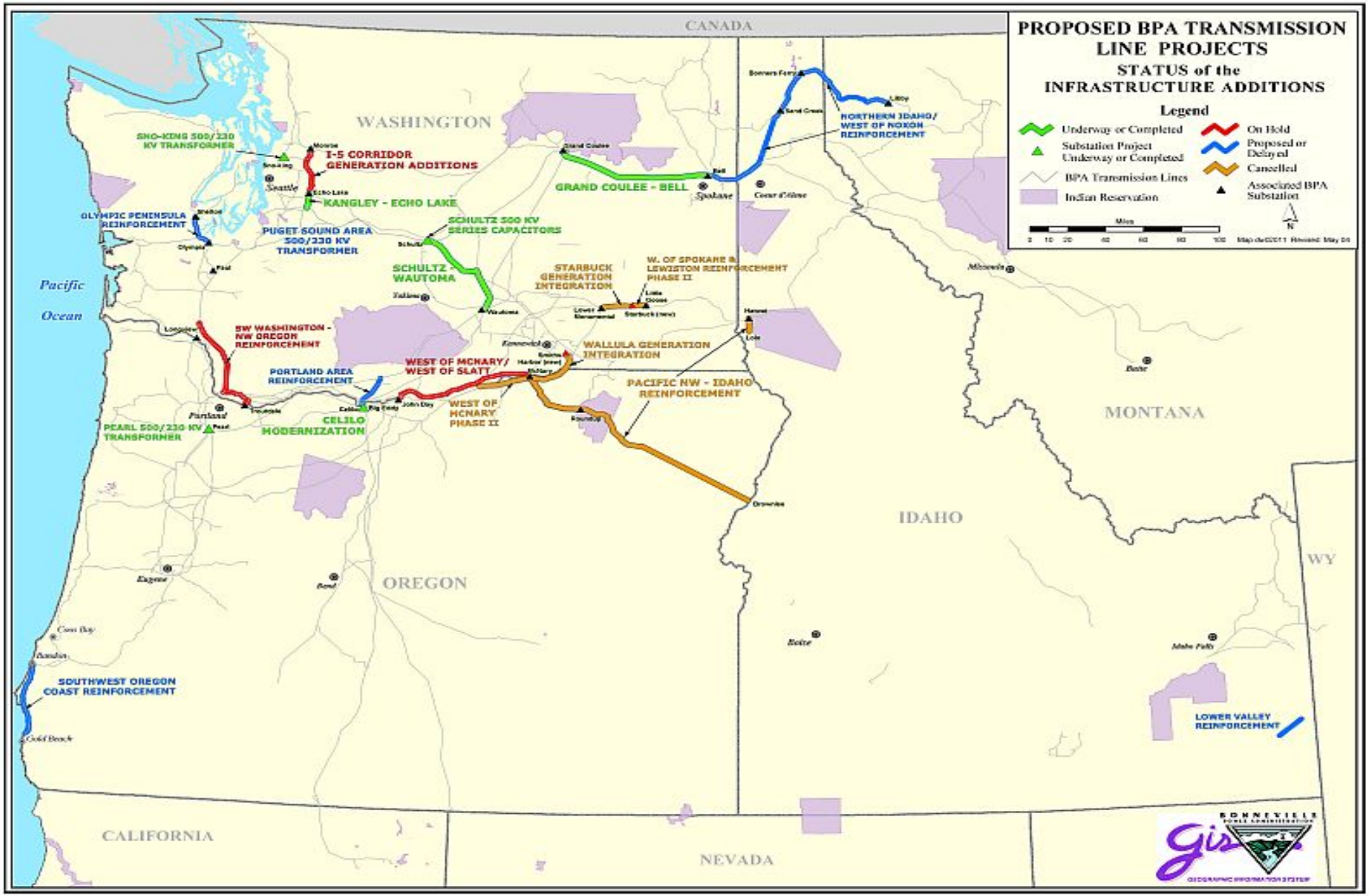
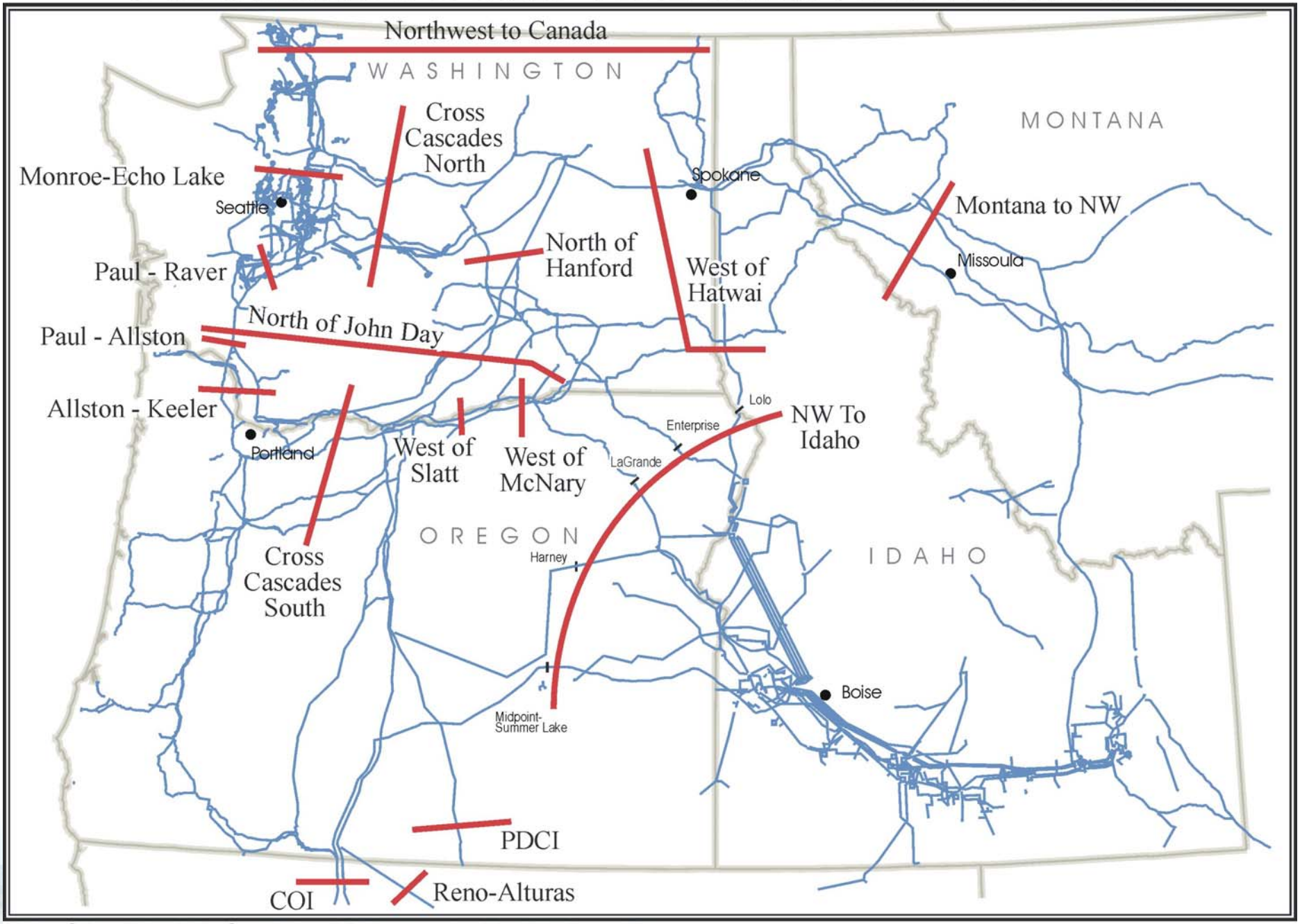
Appendix:
TBL Capital Projects



Bonneville Power Administration
Transmission

Constrained Paths on Bonneville Network



Note: Other Potentially Constrained Paths may be identified over time.

Grand Coulee-Bell (Spokane)

- Relieve constraints for West of Hatwai
- Two year construction project in progress
  - Energization – Dec. 04
- Expansion of Bell and Grand Coulee substation and addition of 84 miles of 500 kV line

Imploding the lines to fuse fittings →

Tower Assembly ←

Bonneville Power Administration Transmission

Schultz-Wautoma (Central Wash.)

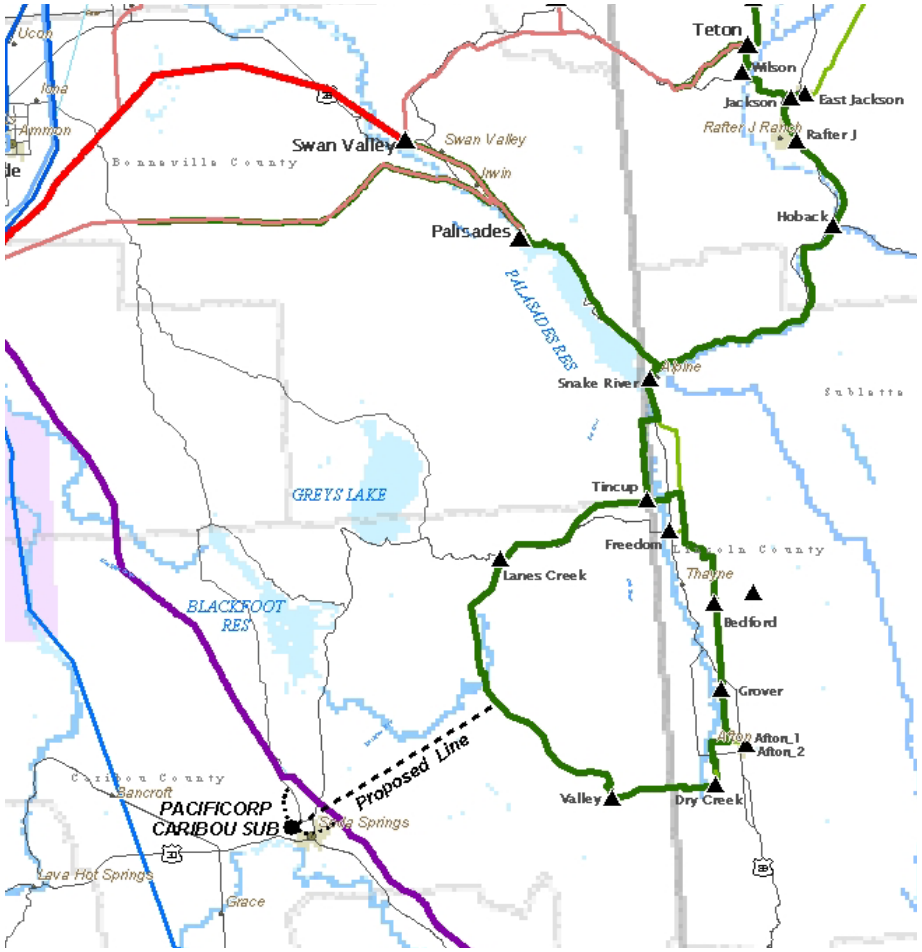
- Increase system reliability in the I-5 corridor and southern Interties
- Two year construction project in progress
  - Energization in 2005
  - 64 miles of 500 kV
  - New substation at Wautoma
- Low cost third-party financing
- Complicated river crossings and new right-of-ways

Wautoma Substation

Bonneville Power Administration
Transmission

Local Area Projects (Idaho Falls*)

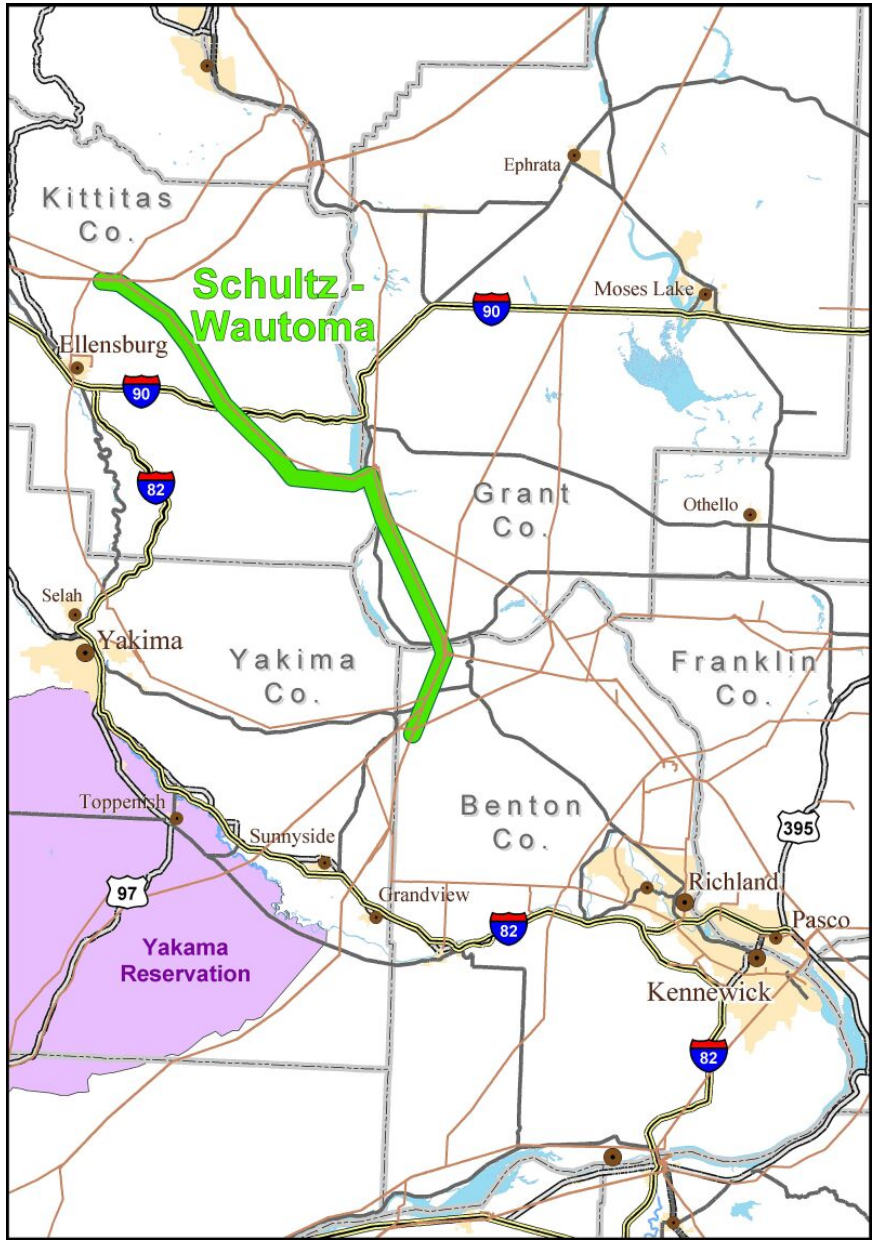
- Teton Shunt Cap switcher Replacement (2004)
- Targhee Circuit Breaker Installation (2005)
- Madison Shunt Cap Replacement (2007)
- Lower Valley Reinforcement (2008)
- Targhee–Drummond 115 kV Line Upgrade (2009)
- Northern Idaho Reinforcement: Libby-Bonners (2012)



*Projects for Kennewick, Spokane, Puget Sound, Portland, Springfield and Missoula can be found in the Appendix document

Local Area Projects (Kennewick*)

- Red Mountain 115 kV Sub (2002)
- Walla Walla 115/69 kV Bank Replacement (2003)
- Red Mountain 2 Terminal Addition (2005)
- White Bluff–Richland One Mile Relocation (2005)
- Schultz–Wautoma 500 kV Line (2006)
- McNary Sub–115 kV Terminal: Benton PUD (2006)



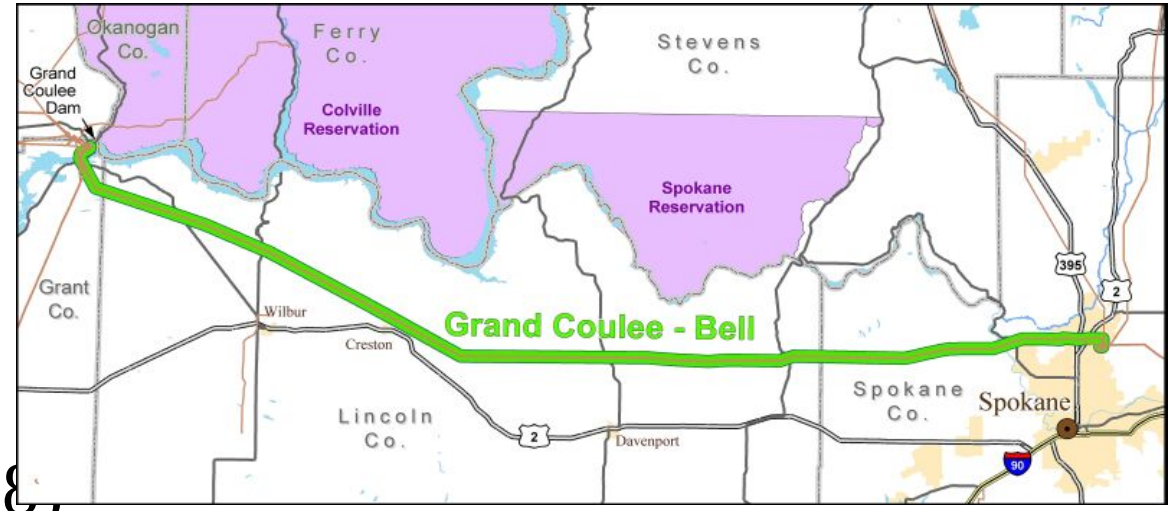
*Projects for other regions can be found the Appendix document

Bonneville Power Administration Transmission

Local Area Projects (Spokane*)

- Coulee–Bell 500 kV Line (2004)
- Schultz–Wautoma 500 kV Line (2006)
- East Omak 230/115 kV Bank (2007)
- Trentwood 230/115 kV Bank/Line (2008)

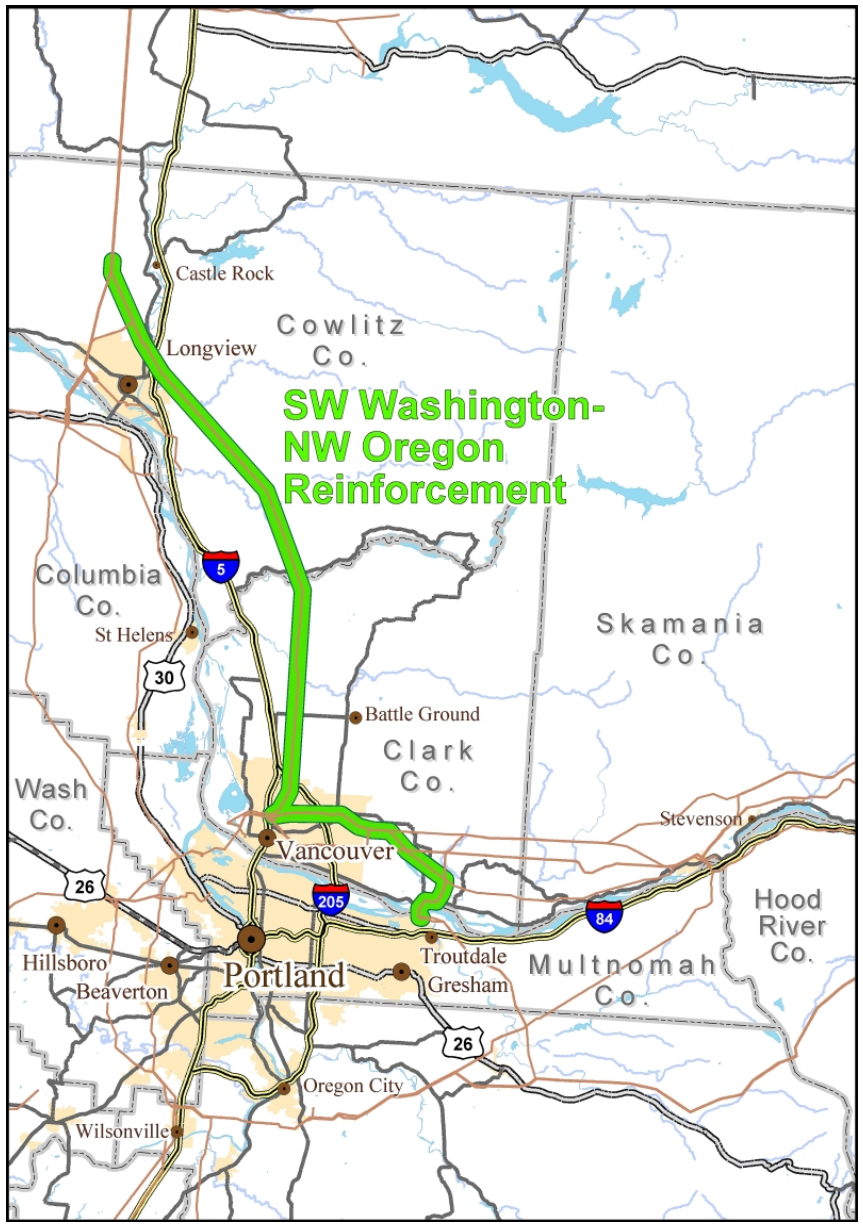
Tower assembly at Coulee-Bell



*Projects for other regions can be found in the Appendix document

Local Area Projects (Portland*)

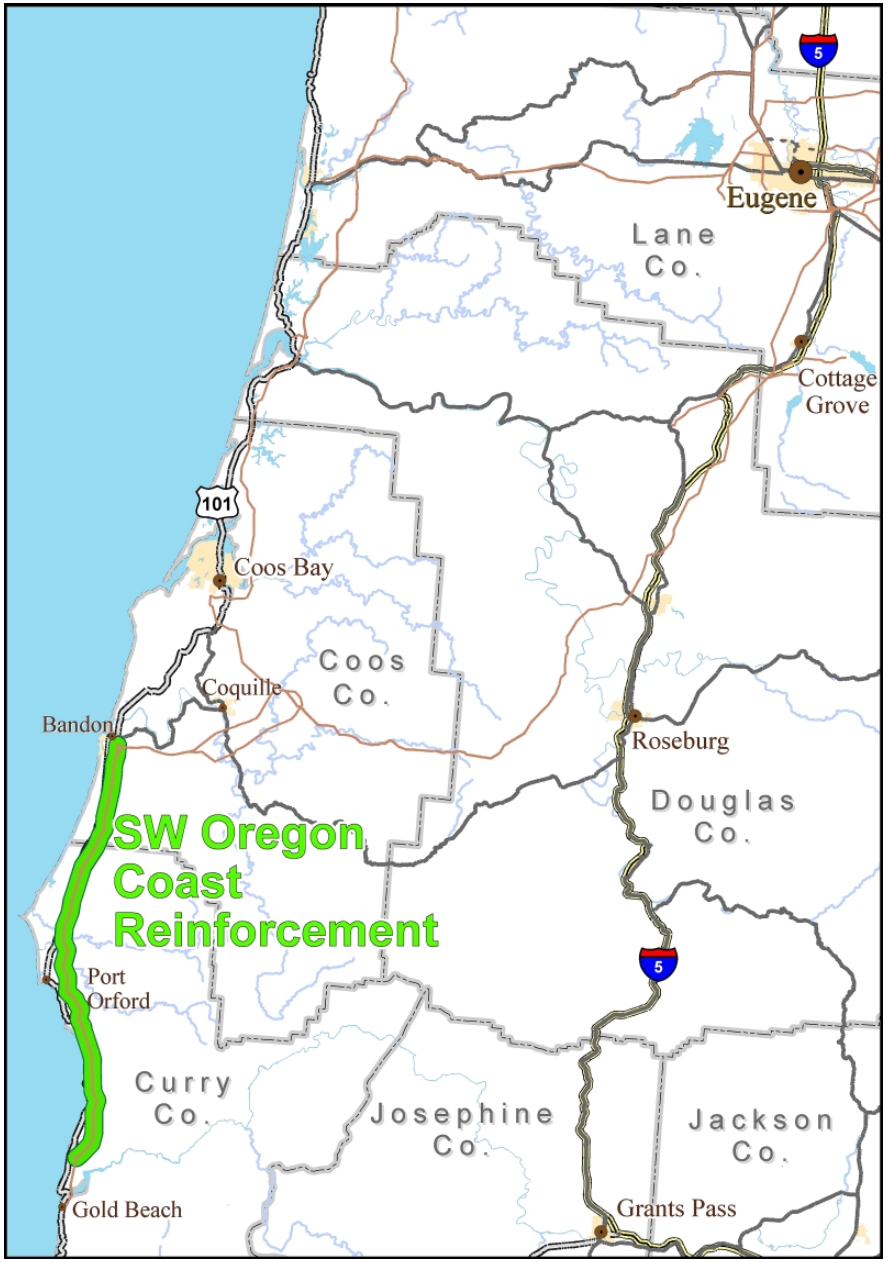
- Pearl 230 kV Bus Sectionalizing Breaker Additions (2004)
- I-5 Corridor 230 kV Upgrade (2005)
- Troutdale 230 kV Line Swap (2005)
- Hanford–Ostrander Tap to Big Eddy (2012)



*Projects for other regions can be found in the Appendix document

Local Area Projects (Springfield*)

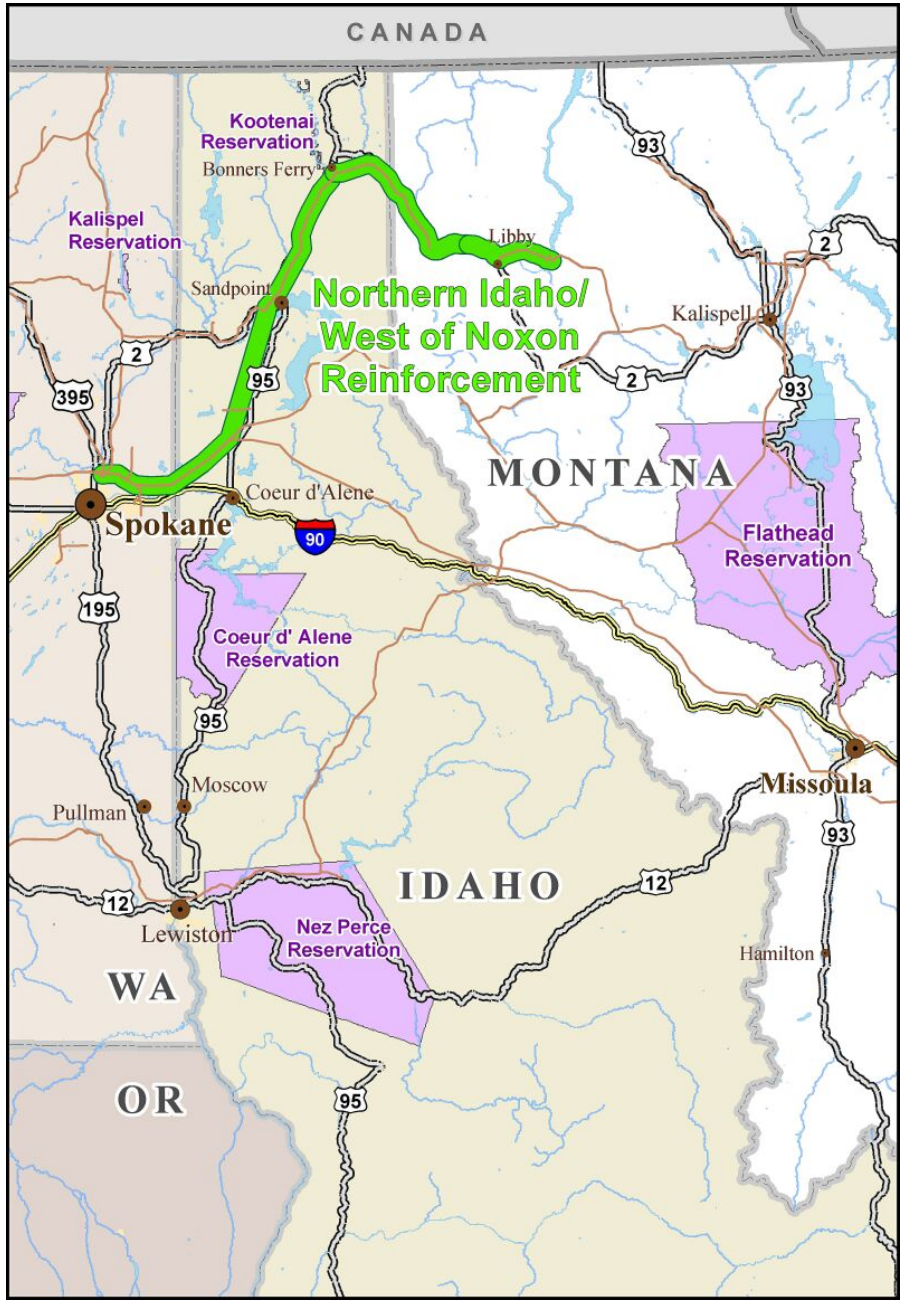
- Albany–Eugene Line Rebuild (2004)
- Fairview 230 kV Bus Sectionalizing Breaker Addition (2005)
- Chemawa 230/115 kV Bank (2010)
- Southwest Oregon Coast: Bandon – Rouge (2010)



*Projects for other regions can be found in the Appendix document

Local Area Projects (Missoula*)

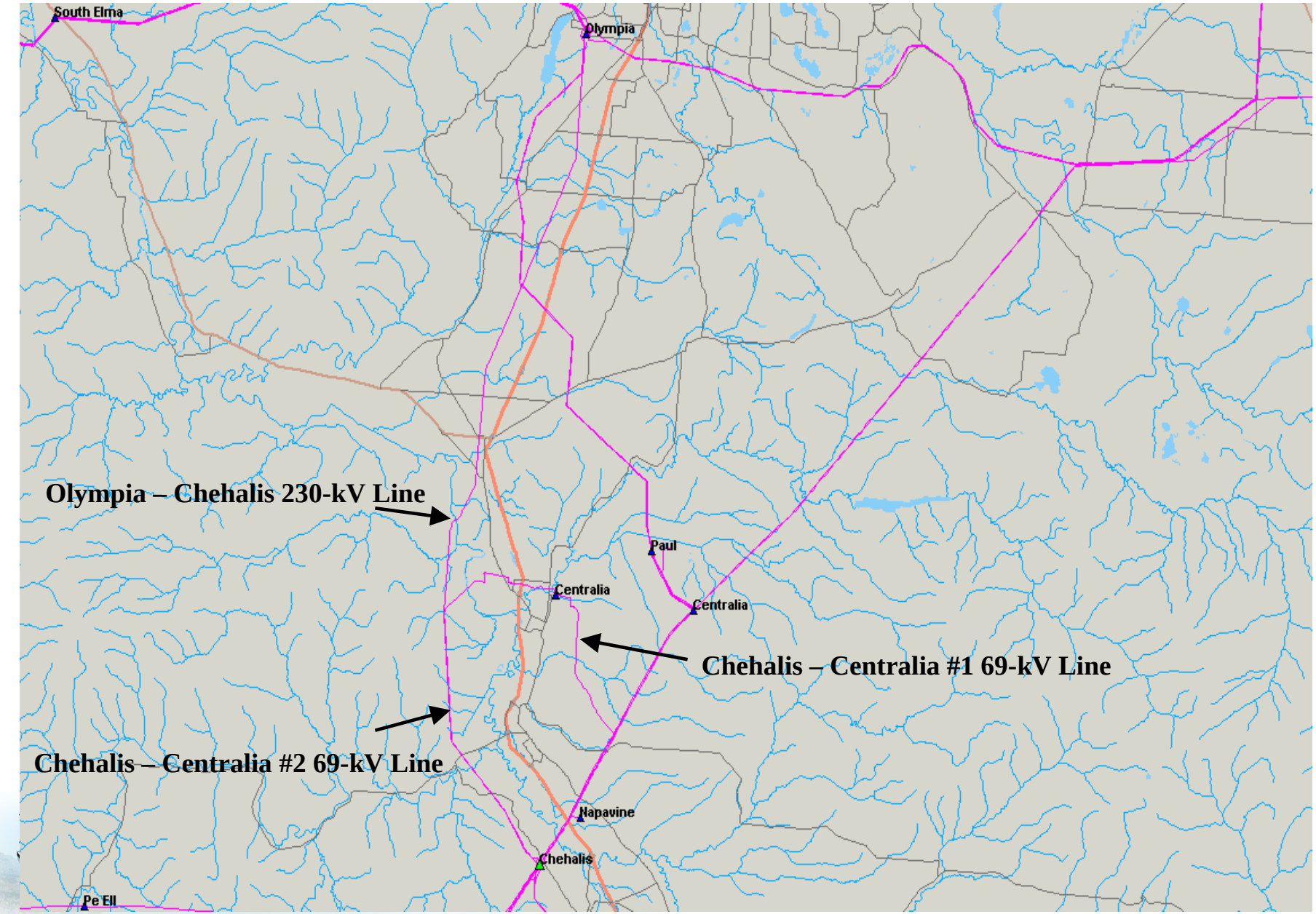
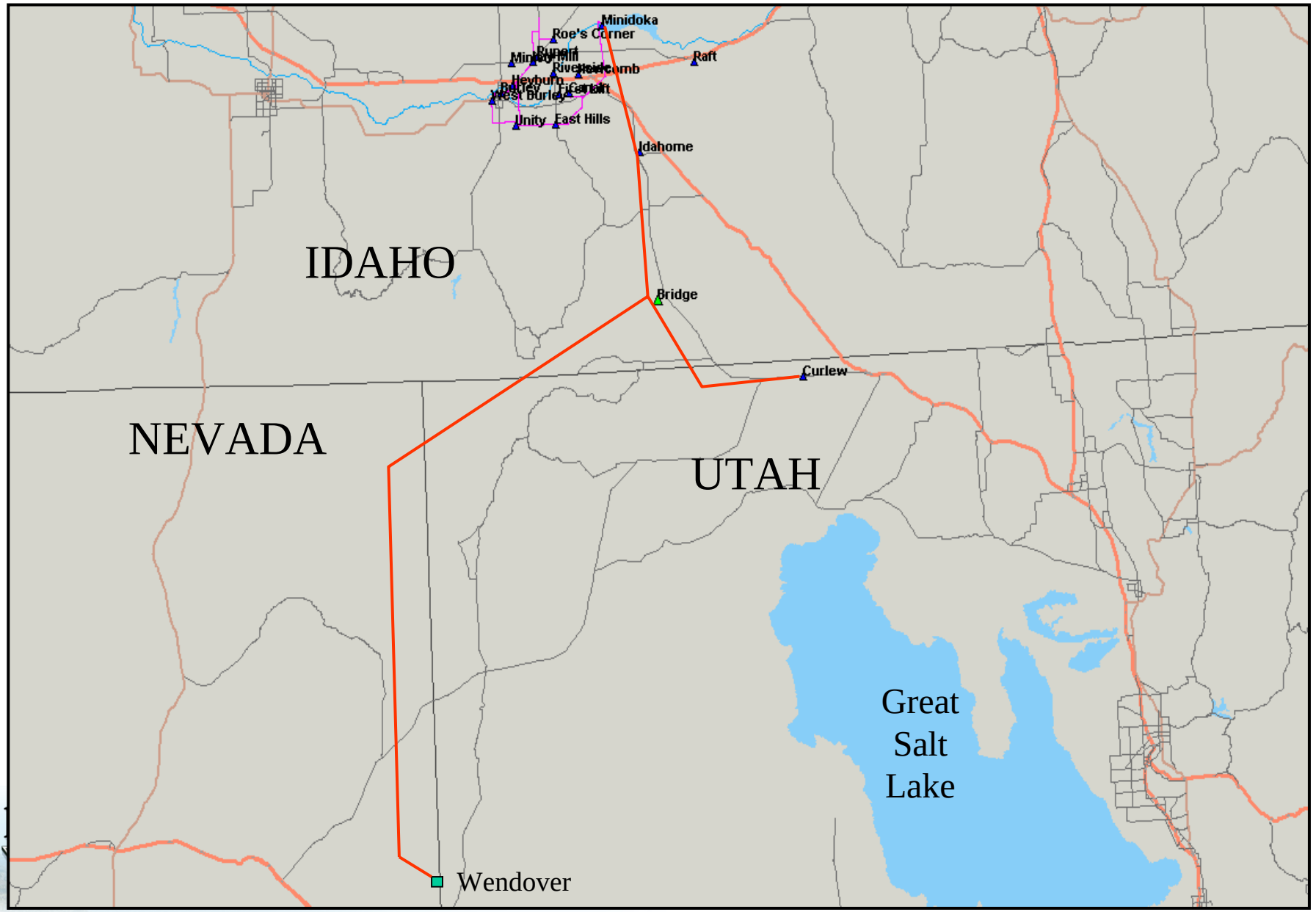
- Libby–Troy Reinforcement (2008)
- Libby-Bonners Reinforcement (2012)
- Sand Creek–Bell 230 kV Line (2012)



Bonneville Power Administration Transmission

*Projects for other regions can be found in the Appendix document

Centralia Area Reinforcement



Three Corners Voltage Support