

Grid Expansion and Reinforcement Portfolio (GERP) 2.0 Project Summaries

GERP 2.0 projects consist of 13 proposed projects at a preliminary projected cost of \$3 billion to support regional load growth, reliability needs and commercial transmission service requests.

Note: These projects were previously referred to as Evolving Grid projects. They have been rebranded to reflect the expanded scope and purpose of the work.

Big Eddy-Quenett Creek Upgrade

This proposed project would upgrade the Hood River sub-grid, rebuilding the Big Eddy-Quenett Creek 230kV to resolve the river crossing impairment.

Big Eddy-The Dalles Rebuild

This proposed project is currently under study with Northern Wasco PUD to rebuild a 115 kV line BPA currently leases.

Central Oregon 500 kV Dynamic Reactive Upgrades

This proposed project would install reactive support (STATCOM) for Central Oregon at Bonanza 500kV and a Captain Jack 500 kV.

Grand Coulee-Columbia-Schultz 500 kV Line Upgrade

This proposed project would rebuild the existing Grand Coulee-Olympia 287 kV circuit to 500 kV. To loop into Columbia, the project would also build a new Columbia 500 kV substation yard, with a 500/230 kV transformer bank. This section of the line would terminate at Schultz Substation.

Lower Columbia to Nevada-Oregon Border

Lower Columbia to Bonanza

This proposed project would build a new 500 kV transmission line between a substation in the Lower Columbia area and the planned Bonanza Substation in Central Oregon. It may include additional connections to 500 kV substations near the line route, as well as new 500 kV series capacitors.

Bonanza to NOB

This proposed project would build a new 500 kV transmission line from Bonanza Substation toward the Nevada-Oregon border (NOB). The project would also include new 500 kV series capacitors.

Nevada-Oregon Border Substation

This proposed project would build a new 500 kV substation at the Nevada-Oregon border.



North of Pearl

This proposed project would upgrade transmission capacity in the Portland sub-grid North of Pearl area by reconductor the existing Pearl-Keeler #1 500 kV line and leveraging an existing corridor to add a second 500 kV line between Pearl and Keeler.

The existing Pearl-Sherwood #1 and #2 230 kV lines would be relocated/rebuilt to accommodate Pearl-Keeler #2 500 kV line.

The existing section of Keeler-Oregon City #2 115 kV between Sherwood and Oregon City would be repurposed as the new Keeler-Sherwood (PGE) 115 kV Line, terminating into Sherwood.

Ostrander-Pearl #1 Upgrade

This proposed project would upgrade the Ostrander-Pearl #1 500 kV line and replace the existing 2.5" expanded conductor.

RATS: Reno-Alturas Reactive Addition

This proposed project would install reactive support (STATCOM) at Warner 115 kV and Hilltop 230 kV.

Salem Area Upgrades

These proposed upgrades would build on the Big Eddy-Chemawa project in GERP 1.0:

North of Marion Upgrade #1

- Constructing a new 500 kV yard at Chemawa, including a new 500/230 kV transformer bank
- Rebuild the Pearl – Chemawa section of Big Eddy-Chemawa from 230 kV to 500 kV
- Rebuild the Chemawa – Santiam #1 from 230 kV to 500 kV

North of Marion Upgrade #2

- Rebuild Pearl – Marion #1 500 kV transmission line and replace the 2.5" expanded conductor
- Rebuild the Oregon City – Chemawa 115 kV transmission line river crossing
- Add a second 230/115 kV transformer bank at Chemawa Substation

Schultz-Olympia 500 kV Line Rebuild

This proposed project would rebuild the Schultz-Olympia portion of the Coulee-Olympia 287 kV to 500 kV. The project would also include an expansion of an Olympia 500 kV yard, a new 500/230 kV transformer bank, and three new 500 kV shunt capacitors.

