Grid Expansion and Reinforcement Portfolio (GERP) 2.0 Project Summaries (*updated 1/23/26*)

GERP 2.0 projects consist of 13 proposed projects at a preliminary projected cost of $3.9 billion to support regional load growth, reliability needs and commercial transmission service requests.

Note: GERP projects were previously referred to as Evolving Grid projects.

Big Eddy-Quenett Creek 230 kV Line Upgrade

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

Estimated Completion: 2031

Preliminary Estimate of Projected Cost: $10 million

Big Eddy-The Dalles 115 kV Line Rebuild

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

Estimated Completion: 2033

Preliminary Estimate of Projected Cost: TBD

Central Oregon 500 kV Dynamic Reactive Upgrades

This proposed project would install reactive support (STATCOM[1]) for Central Oregon at Bonanza 500 kV and Captain Jack 500 kV. In addition, a new 500 kV series capacitor would be added at Fort Rock Compensation Station.

Estimated Completion: 2035

Preliminary Estimate of Projected Cost: $170 million

Lower Columbia to Nevada-Oregon Border

Lower Columbia to Bonanza

- This proposed project would build two new 500 kV transmission lines from the Lower Columbia region and the planned Bonanza Substation in Central Oregon. The first line would be between Bonanza and Big Eddy substations with a connection at Grizzly Substation. The second line would extend from Bonanza through Buckley and Six Mile Canyon substations and terminate at Longhorn Substation.
- The proposed project may include additional connections to 500 kV substations near the line route as well as new 500 kV series capacitors.

[1] A static synchronous compensator (STATCOM) is a shunt-connected, reactive compensation device using power electronics to form a voltage-source converter that can act as either a source or sink of reactive AC power to an electricity network.

Bonanza to NOB

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

Nevada-Oregon Border Substation

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

Estimated Completion: 2035

Preliminary Estimate of Projected Cost: $1.9 billion

North of Pearl

This proposed project would upgrade transmission capacity in the Portland sub-grid North of Pearl area by a series of upgrades to existing facilities including:

- Reconductor the existing Pearl-Keeler No 1 500 kV line and leverage an existing corridor to add a second 500 kV line between Pearl and Keeler substations.
- Relocating and rebuilding the existing Pearl-Sherwood No 1 and No 2 230 kV lines to accommodate Pearl-Keeler No 2 500 kV line.
- Repurpose the existing section of Keeler-Oregon City No 2 115 kV between Sherwood and Oregon City as the new Keeler-Sherwood (PGE) 115 kV Line, terminating into Sherwood Substation.

Estimated Completion: 2033

Preliminary Estimate of Projected Cost: $300 million

Ostrander-Pearl 500 kV Line Upgrade

This proposed project would upgrade the Ostrander-Pearl No 1 500 kV line and replace the existing 2.5” expanded conductor.

Estimated Completion: 2031

Preliminary Estimate of Projected Cost: $50 million

Reno-Alturas Reactive Addition

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

Estimated Completion: 2031

Preliminary Estimate of Projected Cost: $90 million

Salem Area Upgrades

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

North of Marion Upgrade I

- Constructing a new 500 kV yard at Chemawa Substation, including a new 500/230 kV transformer bank
- Upgrade the Pearl–Chemawa section of Big Eddy-Chemawa from 230 kV to 500 kV
- Upgrade the Santiam-Chemawa No 1 from 230 kV to 500 kV

North of Marion Upgrade II

- Rebuild Pearl–Marion No 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

Estimated Completion: 2035

Preliminary Estimate of Projected Cost: $250 million

Grand Coulee-Columbia-Schultz 500 kV Line Upgrade

This proposed project would:

- Upgrade the Grand Coulee-Schultz portion of the existing Grand Coulee-Olympia 287 kV circuit to 500 kV
- The project would loop into Columbia substation with a 500/230 kV transformer bank in a new Columbia 500 kV substation yard

Estimated Completion: 2035

Preliminary Estimate of Projected Cost: $330 million

Schultz-Olympia 500 kV Line Rebuild

This proposed project would rebuild and upgrade certain facilities including:

- Upgrade the Schultz-Olympia portion of the Coulee-Olympia 287 kV to 500 kV
- Expand the Olympia 500 kV yard with a new 500/230 kV transformer bank and three new 500 kV shunt capacitors

Estimated Completion: 2035

Preliminary Estimate of Projected Cost: $860 million