

Grid Expansion and Reinforcement Portfolio (GERP) 1.0 Project Summaries (updated 1/23/26)

GERP 1.0 projects consist of 10 proposed projects at a preliminary projected cost of \$2 billion to support regional load growth, reliability needs and commercial transmission service requests. The projects are mostly upgrades, rebuilds and other improvements to existing facilities; however, the portfolio does include two new substations and one new transmission line. In total, there are improvements and/or additions to 363 miles of transmission lines.

Big Eddy-Chemawa 230/500 kV Line Upgrade

BPA proposes to rebuild 91 miles of the existing Big Eddy-Chemawa #1 230 kV line to a 500 kV line and re-terminate between BPA's Big Eddy Substation (The Dalles, OR), Ostrander Substation (Oregon City, OR) and Pearl Substation (Wilsonville, OR).

This project will create additional capacity to support regional load growth, reliability needs and commercial requests for long-term transmission.

Preliminary estimated direct cost: \$670 million

Estimated completion: 2033 (updated from 2032)

Bonanza 115/230/500 kV Substation

This facility would be a new hub substation in Central Oregon near Prineville, OR. The new 115/230/500 kV Bonanza Substation would be built near BPA's existing Ponderosa Substation.

This project will create additional capacity to support new resource development and access to non-federal resources.

Preliminary estimated direct cost: \$300 million

Estimated completion: 2031 (updated from 2030)

Buckley 500 kV Substation Rebuild

This project is a proposed rebuild of BPA's Buckley Substation in Sherman County, OR. The rebuild would be a new air-insulated 500 kV substation built near the existing gas-insulated substation, which will be retired.

This project will create additional capacity to support regional load growth, reliability needs and commercial requests for long-term transmission.

Preliminary estimated direct cost: \$150 million

Estimated completion: 2029



Chehalis-Covington 230 kV Line Upgrade

This project is a proposed upgrade of a portion of the existing Chehalis-Covington #1 230 kV line. The work would consist of replacing conductor on 46 miles of line between BPA's Chehalis Substation (Chehalis, WA) and Cowlitz Tap (Frederickson, WA).

This project will create additional capacity to support regional load growth, reliability needs and commercial requests for long-term transmission.

Preliminary estimated direct cost: \$73 million

Estimated completion: 2028

Cross Cascades North Upgrades

This series of upgrades consists of three projects designed to reinforce the Cross Cascades North path on the Federal Columbia River Transmission System.

- Schultz-Raver 500 kV Line Upgrade: BPA proposes upgrading the existing Schultz-Raver #3 and Schultz-Raver #4 500 kV lines to a higher-rated capacity. BPA would reconductor the 77 miles of line (154 miles total) between BPA's Schultz Substation (Ellensburg, WA) and Raver Substation (Ravensdale, WA).
- Paul 500 kV Substation Upgrade: BPA proposes adding a new capacitor at Paul Substation (Centralia, WA).
- Olympia 230 kV Substation Upgrade: BPA proposes adding a new Static VAR Compensator at Olympia Substation (Olympia, WA).

This project will create additional capacity to support regional load growth, reliability needs and commercial requests for long-term transmission.

Preliminary estimated direct cost: \$400 million

Estimated completion: 2032 (updated from 2030)

La Pine-Bonanza 230 kV Line

This project is a proposed new 52-mile 230 kV transmission line in Central Oregon between BPA's La Pine Substation (La Pine, OR) and proposed Bonanza Substation (Prineville, OR).

This project will create additional capacity to support regional load growth, reliability needs and commercial requests for long-term transmission.

Preliminary estimated direct cost: \$150 million

Estimated completion: 2032 (updated from 2030)



Portland Area Upgrades

In total, these projects will create additional capacity to support regional load growth, reliability needs and commercial requests for long-term transmission:

Keeler-Horizon 230 kV Line #2 - Completed (energized 2024)

- Terminating PGE's new Keeler-Horizon #2 line at BPA's Keeler Substation (Hillsboro, OR) and a new 500/230-kV transformer would be added at Keeler Substation.

Pearl-Sherwood-McLoughlin 230 kV Line Upgrade

- Reconfiguring and re-terminating the Pearl-Sherwood-McLoughlin line at BPA's Pearl Substation (Wilsonville, OR).
- Estimated completion: May 2026

Keeler 230/500 kV Transformer Addition

- A new 230/500 kV transformer would also be added at Keeler Substation (Hillsboro, OR).
- Estimated completion: 2030

Preliminary estimated direct cost: \$150 million

Rock Creek-John Day 500 kV Line Upgrade

This project is an upgrade of the existing Rock Creek-John Day #1 500 kV line. BPA would rebuild 14 miles of line between the Rock Creek Substation (Goldendale, WA) and John Day Substation (Rufus, OR), including a Columbia River crossing.

This project will create additional capacity to support regional load growth, reliability needs and commercial requests for long-term transmission.

Preliminary estimated direct cost: \$109 million

Estimated completion: Early 2030

Ross-Rivergate 230 kV Line Upgrade

This project is a proposed upgrade of the existing Ross-Rivergate #1 230 kV line. The work would consist of replacing conductor on 6 miles of line between BPA's Ross Substation (Vancouver, WA) and PGE's Rivergate Substation (Portland, OR), including a Columbia River crossing.

This project will create additional capacity to support regional load growth, reliability needs and commercial requests for long-term transmission.

Preliminary estimated direct cost: \$46 million

Estimated completion: 2031



Six Mile Canyon 230/500 kV Substation

This is a proposed new 230/500 kV hub substation called Six Mile Canyon near Boardman, OR.

This project will create additional capacity to support regional load growth, reliability needs and commercial requests for long-term transmission.

Preliminary estimated direct cost: \$250 million

Estimated completion: Early 2028

