



# **Grid Expansion & Reinforcement Portfolio Interactive Map (& More)**

January 27, 2026



**Grid Expansion**

**GERP Substation Projects**

- GERP 1.0
- GERP 2.0

**GERP Line Projects**

- GERP 1.0
- GERP 2.0

**BPA Transmission Lines**

**GERP Substations**

- Buckley 500 kV Substation Rel
- Keeler 230/500 kV Transform
- Bonanza 230/500 kV Substat
- Keeler-Hunter 230 kV Line

**GERP Transmission Lines**

- Big Eddy-Chemawa 230/500
- Chehalis-Covington 230 kV Li
- La Pine-Bonanza 230 kV Line

Grid Expansion & Reinforcement Portfolios 1.0 and 2.0 represent a significant investment in and an expansion of the Federal Columbia River Transmission System. This more than \$5 billion investment is in response to a variety of factors, creating a need for a transformational shift in the Transmission industry to support the region's load growth and generation development.

Issues or questions in regard to the viewer, please contact Alice Tarachow (amtarachow@bpa.gov)  
Issues or questions in regard to the data, please contact Sean Egusa (sregusa@bpa.gov)

**Disclaimer: the data in the map are approximate locations of planned substations and transmission lines.**

☒ I agree to the above terms and conditions

OK

Esri, USGS | Oregon State Parks, Esri, TomTom, Garmin, FAO, NOAA, USGS, EPA, USFWS | Created by BPA GIS staff in 1989. Modified as needed. | Bonneville Power Administration, Geospatial Services. | TERG... Powered by Esri





## Grid Expansion &amp; Reinforcement Portfolio 1.0 &amp; 2.0

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## GERP Substation Projects

- GERP 1.0
- GERP 2.0

## GERP Line Projects

- GERP 1.0
- GERP 2.0

## BPA Transmission Lines

## GERP Substations

Buckley 500 kV Substation Rebuild

Keeler 230/500 kV Transformer

Bonanza 230/500 kV Substation

Keeler-Helena 230 kV Line

## GERP Transmission Lines

Big Eddy-Chemawa 230/500 kV

Chehalis-Covington 230 kV Line

La Pine-Bonanza 230 kV Line



**1: The initial view will be an overview of the BPA balancing area plus GERP 1.0 & 2.0 layers**





## Grid Expansion &amp; Reinforcement Portfolio 1.0 &amp; 2.0

GERP - Bonneville Power Administration

4



## GERP Substation Projects

2

- GERP 1.0
- GERP 2.0

## GERP Line Projects

- GERP 1.0
- GERP 2.0

## BPA Transmission Lines

3

## GERP Substations

Buckley 500 kV Substation Rebuild

Keeler 230/500 kV Transformer

Bonanza 230/500 kV Substation

Keeler-Harney 230 kV Line

## GERP Transmission Lines

Big Eddy-Chemawa 230/500 kV

Chehalis-Covington 230 kV Line

La Pine-Bonanza 230 kV Line

**2: A key for the primary objects (for the GERP layer only)**

**3: A listing of all GERP projects (1.0 & 2.0) organized by substation or line class**

**4: The map offers additional functions to add layers, filter results and more. Highlights include:**



**Ability to add layers of different information including constraints, interconnection requests, solar, wind and tribal**



**Ability to filter by pre-determined criteria such as which GERP portfolio and Expected Energization**



**Ability to change the base layer to compare against different topologies and contrasts**



Grid Expansion & Reinforcement Portfolio 1.0 & 2.0

GERP Substation Projects

- GERP 1.0
- GERP 2.0

GERP Line Projects

- GERP 1.0
- GERP 2.0

GERP Substations

- Bonanza 230/500 kV
- RATS: Reno-Alturas Reactive
- RATS: Reno-Alturas Reactive

GERP Transmission Lines

- La Pine-Bonanza 230 kV Line
- Rock Creek-John Day 500 kV
- Ross-Rivergate 230 kV Line

GERP - Bonneville Power Administration

**5: Every project associated with each GERP data point, whether line or substation, has been consolidated within the dialog box.**

**Note the Yellow box highlighting the ability to scroll through different projects at the same data point.**

**Note the Green box highlighting the ability to Dock/Undock, Collapse/Expand & Close the dialog box.**

**Bonanza 230/500 kV Substation**

|                       |  |
|-----------------------|--|
| Approximate Location  | Bonanza  |
| Cycle                 | GERP 2.0   |
| Project Name          | Bonanza 230/500 kV Substation  |
| Group Name            | Central Oregon 500 kV Dynamic Reactive Upgrade   |
| Expected Energization | 2035   |
| Estimated Costs       | 169,000,000  |
| Description           | This proposed project would install reactive support (STATCOM) for Central Oregon at Bonanza 500kV and a Captain Jack 500 kV. In addition, a new |

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# Questions?

- BPA welcomes feedback on the usability and navigation of the current map.
- BPA welcomes feedback on additional map-based solutions for future consideration.
- Submit comments to [techforum@bpa.gov](mailto:techforum@bpa.gov), subject: “Interactive GERP Maps”