



# 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 Transf

Bonanza 230/500 kV Substa

Koch-Hansen 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



## 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

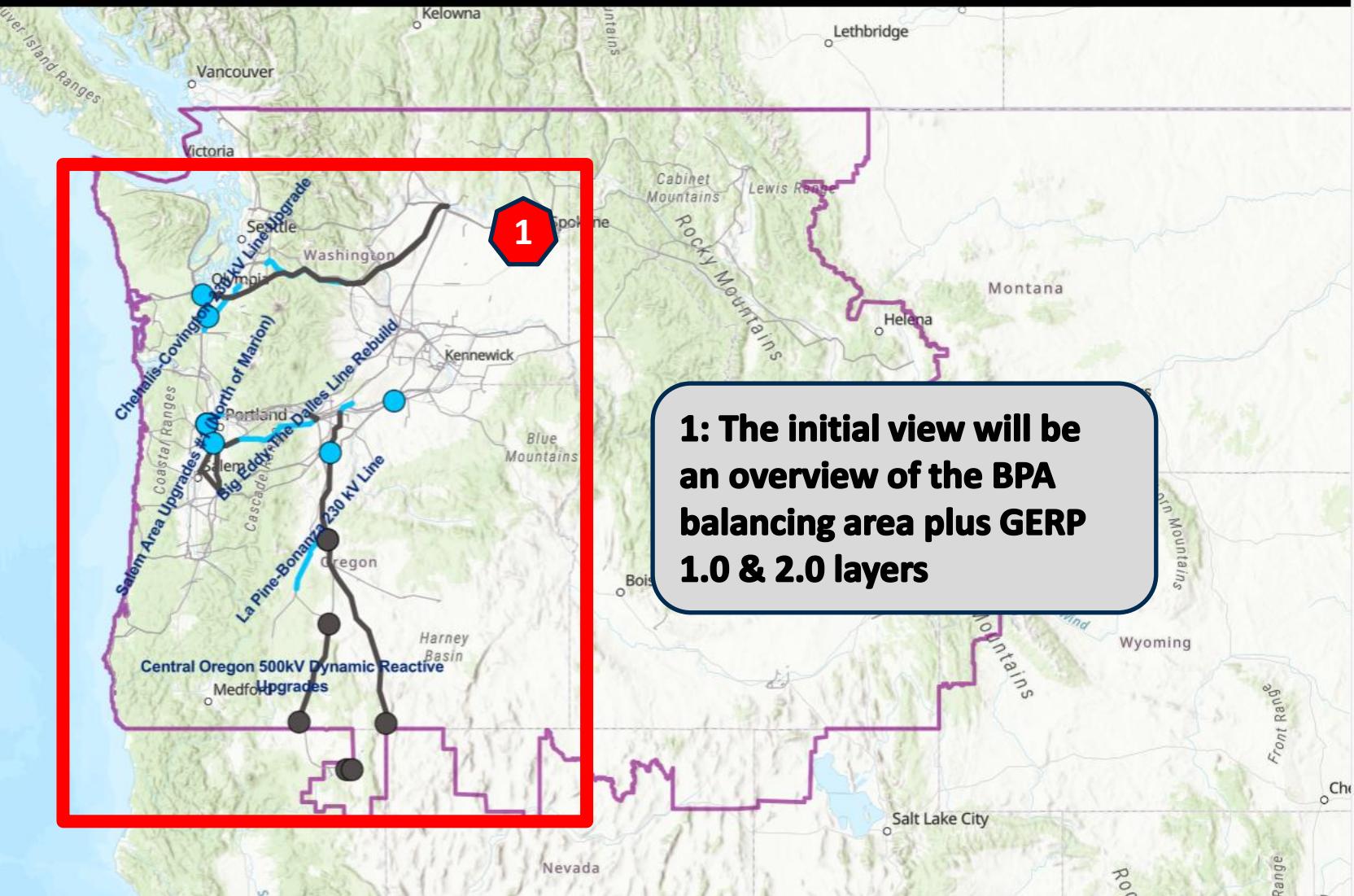
Keeler-Harney 230 kV Line

## GERP Transmission Lines

Big Eddy-Chemawa 230/500 kV

Chehalis-Covington 230 kV Line

La Pine-Bonanza 230 kV Line





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## GERP Substation Projects

- GERP 1.0
- GERP 2.0

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

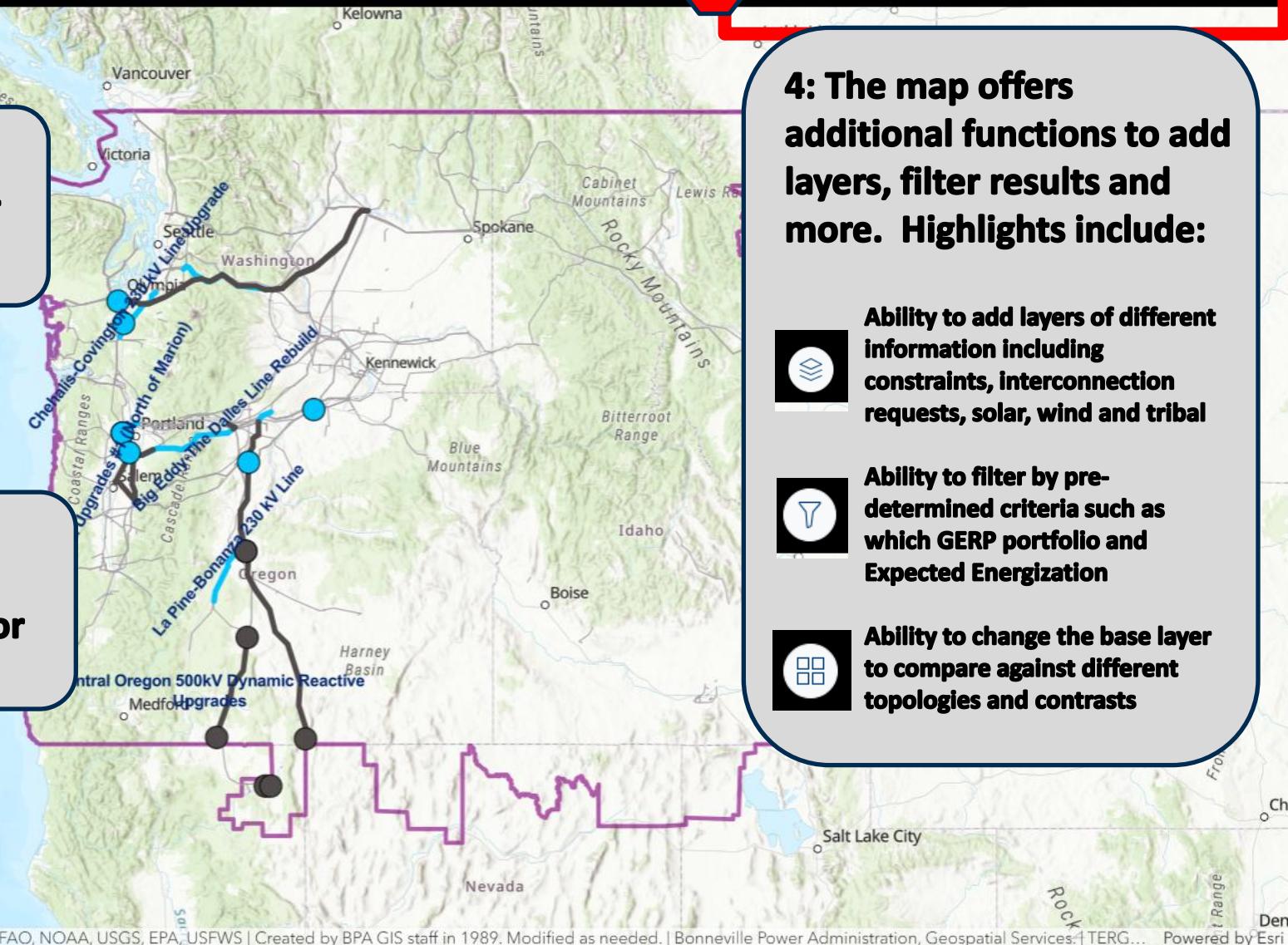
## GERP Line Projects

- GERP 1.0
- GERP 2.0

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

GERP Substations	
Buckley 500 kV Substation Rebuild	00 00
Keeler 230/500 kV Transformer	00 00
Bonanza 230/500 kV Substation	00 00
Koosah-Horizon 230 kV Line	00 00
GERP Transmission Lines	
Big Eddy-Chemawa 230/500 kV	00 00
Chehalis-Covington 230 kV Line	00 00
La Pine-Bonanza 230 kV Line	00 00



**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 | BPA Operations Information - Bonnev | TC-27 Tariff Proceeding (Grid Acc | WebEx Request

[https://experience.arcgis.com/experience/06e44781378e48bab2cc352be7098c1c#data\\_s=id%3A7f85f964b05442dd960a15b001d0567d-19b13df1f87-layer-7%3A20](https://experience.arcgis.com/experience/06e44781378e48bab2cc352be7098c1c#data_s=id%3A7f85f964b05442dd960a15b001d0567d-19b13df1f87-layer-7%3A20)

Grid Expansion & Reinforcement Portfolio 1.0 & 2.0

GERP - Bonneville Power Administration

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

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.

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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

Esri, USGS | Oregon State Parks, Esri, TomTom, Garmin, FAO, NOAA, USGS, EPA, USFWS | Created by BPA GIS staff in 1989. Modified as needed. | TERG, TSQ

Powered by Esri

# 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”