



GridLiance West Project Proposal for the 2023-2024 TPP Reliability Request Window

September 27, 2023

Trout Canyon-Lugo 500kV

- **Issues:** CAISO's preliminary 2023-2024 TPP assessment showed overloading and divergence on the GLW and surrounding transmission system. The Trout Canyon-Lugo 500kV is being proposed to address a combination of reliability, policy, and economic needs.
- **Proposed Project:**
 - Build a new series-compensated 500 kV transmission line from Trout Canyon 500 kV substation to Lugo 500 kV substation, approximately 180 miles

Trout Canyon – Lugo 500kV

- **Proposed In-Service Date: 12/31/2033**
- **Estimated Cost Range: \$2,000 MM¹**
- **Benefits**
 - The project will address overloads related to P7 contingencies in GLW system including circuits 1&2 of Trout Canyon-Sloan Canyon 500kV, Innovation-Desert View 230kV, and Desert View-Northwest 230kV.
 - The project would also improve GLW and VEA area generation deliverability and allow future transmission expansion to access Nevada’s geothermal resources.
 - The Trout Canyon – Lugo 500 kV Line project is recommended to mitigate future Trout Canyon RAS and previously identified Lugo – Victorville 500 kV constraints and existing Lugo – Victorville N-1 RAS described in the 2022-2023 TPP.

1) 2022-2023 CAISO TPP Estimate

Trout Canyon – Lugo 500kV

