



# **GridLiance West Project Proposal for the 2022-2023 TPP Reliability Request Window**

**September 28, 2022**

# GLW Upgrade 500 kV Conversion

- **Issues:** CAISO's preliminary 2022-2023 TPP assessment showed overloading on the GLW and surrounding transmission system. The GLW Upgrade is being proposed to address a combination of reliability, economic, and policy needs.
- **Proposed Project:**
  - Rebuild existing 230 kV circuit from Innovation to Desert View to match the second circuit project approved in the 2021-2022 TPP.
  - Replace 2021-2022 TPP 230 kV double circuit rebuild project from Pahrump – Gamebird – Trout Canyon with a project that replaces the same line to 500 kV double circuit.
  - Replace 2021-2022 TPP 230 kV double circuit rebuild project from Trout Canyon – Sloan Canyon with a project that replaces the same line to 500 kV double circuit.
  - Add a 2nd Sloan Canyon – Eldorado 500 kV line
  - Add a 500/230 kV transformer bank at Trout Canyon
  - Add 500/230 kV transformer bank and 500 kV switching station at Gamebird
  - Add 500/230 kV transformer bank and 500 kV switching station at Pahrump

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- **Proposed In-Service Date: 12/31/2026**
- **Estimated Cost Range: \$305MM**
- **Benefits (Reliability + Economic + Policy):**
  - The GLW Upgrade addresses a variety of overloads observed in the 2032 Spring Off-Peak and will see more benefits upon completion of the policy study when modeling the full GLW area renewable portfolio.
  - Interconnecting Sloan Canyon to Eldorado with a 2nd 500 kV line increases the GLW-CAISO capacity to allow for higher renewable interconnection needed by the 30 MMT CPUC IRP.
  - These upgrades are needed under the 30 MMT sensitivity portfolio for 2035

# GLW Upgrade Map

