

## Orchard Substation Project

Providing critical operational reliability and grid resiliency in the San Joaquin Valley

LS Power Grid California is an electric transmission utility in the state of California that owns and operates transmission lines and substations to support the California ISO (CAISO).

### Project Award

In 2020, CAISO selected LS Power Grid California as the project sponsor for the Orchard Substation Project after a competitive solicitation process. The CAISO selection report stated that LS Power Grid California's proposal provided "lower cost, greater rate certainty, and less cost risk than the proposals of the other project sponsors."

### Assets

- State-of-the-art, dynamic voltage control technology: 800+ MVAR support to CAISO's power grid
- Represents the largest static synchronous compensator (STATCOM) installation in North America

50+

Construction jobs created

0

OSHA recordable safety incidents from energization through 2024

800+ MVAR

Dynamic reactive power support from STATCOM installation

\$1+ Million

Property taxes paid by LS Power Grid California since 2023

\$100+

Million

Est. cost savings for consumers over life of the project



"Our Orchard Substation provides long-term cost savings for electricity consumers and enhances grid reliability and resiliency for CAISO's power grid."

– Paul Thessen, President, LS Power Development

# LS Power Grid California: Orchard Substation



## Project Highlights

### Competitive Cost to Build

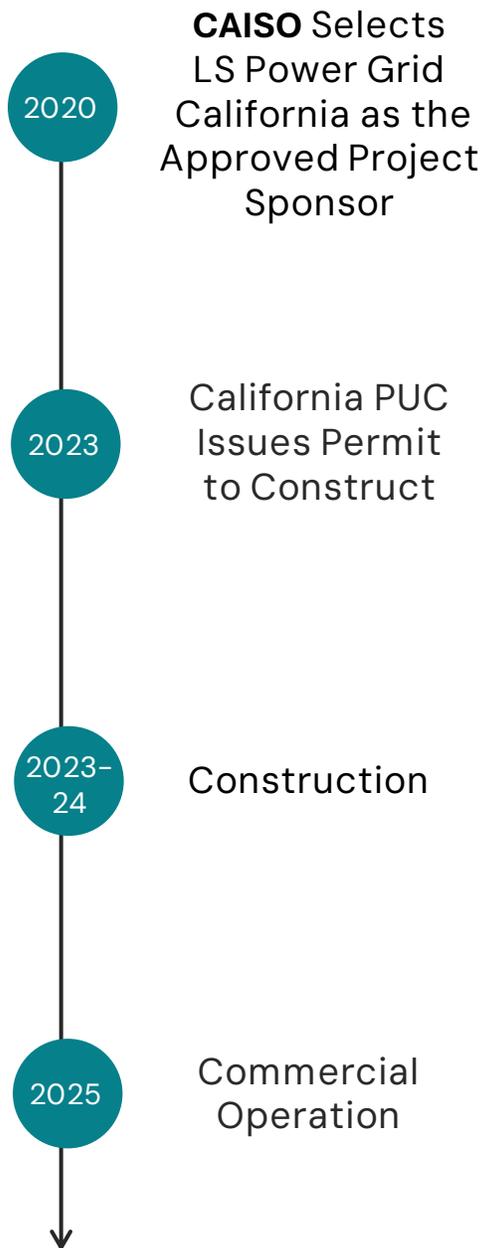
Orchard was completed at a cost below CAISO's original estimate, delivering long-term savings to electricity consumers.

### Regional Development

Orchard is LS Power Grid California's first operational transmission asset in the state, with five more transmission infrastructure projects in development across California.



Geographic location of the Orchard Substation within CAISO's footprint



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