

Minimizing Environmental Impacts

Working closely with the community and environmental experts

- We are committed to identifying routes with the least overall impacts.
- Environmental and engineering experts will conduct extensive research and field reviews.
- Public input will be collected through stakeholder briefings, meetings and community open houses.
- Project will undergo formal environmental review under the California Environmental Quality Act (CEQA), providing additional opportunities for public input.

comprehensive environmental assessment analyzing a and identifying appropriate mitigation in these areas:







Aesthetics

Agricultural resources

Air quality

Biological resources

Cultural resources

Geology and soils

Greenhouse gases

Hazards and hazardous materials

Hydrology and water quality

Land use and planning

Mineral resources

Noise

Population and housing

Public services

Recreation

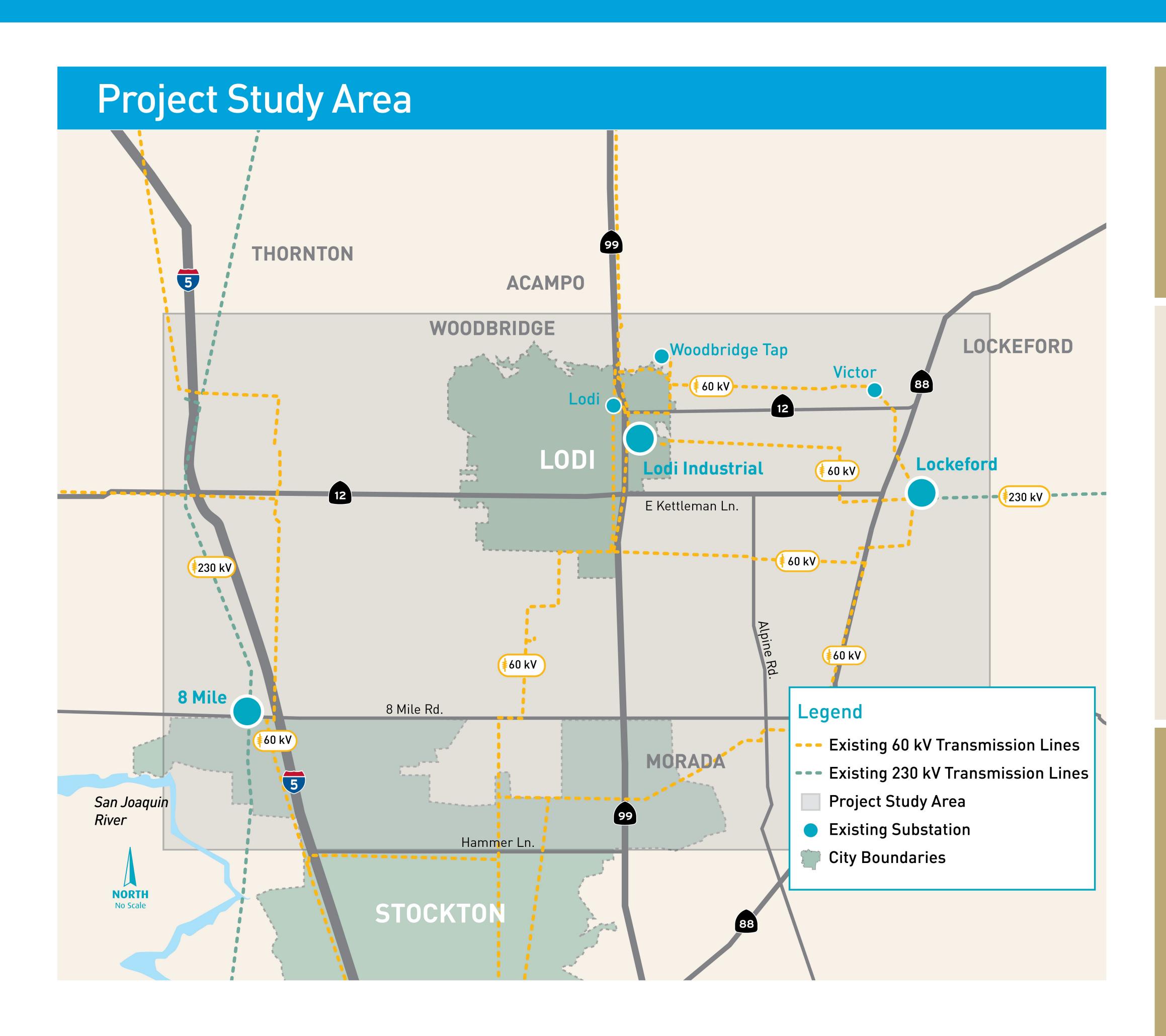
Transportation and traffic

Utilities and service systems



Project Overview

Increasing electric reliability for northern San Joaquin communities



Northern San Joaquin Power Connect will help accommodate the region's growing energy demands and provide a highly reliable and stable electricity source for 50,000 customers in the area. The proposed project will include:

Constructing new 230 kV high-capacity transmission lines to connect:

- PG&E's existing Lockeford Substation, which is east of Lodi;
- PG&E's existing 8 Mile Substation, which is just north of Stockton; and
- Lodi Electric Utility's existing Industrial Substation, which is in eastern Lodi

Upgrading and potentially expanding:

- PG&E's existing Lockeford Substation;
- PG&E's existing 8 Mile Substation;
- Lodi Electric Utility's existing Industrial Substation



Providing Reliable Energy

Increasing electric reliability for northern San Joaquin communities

- Increases the capacity of the local electric grid, ensuring PG&E continues to stay in front of the area's growing energy demands.
- Increases efficiencies when dealing with service interruptions, benefiting residents, businesses and growers across the region.
- Addresses a need for a new transmission source to avoid potential voltage and thermal overload concerns in the area identified by the California Independent System Operator (CAISO), which manages the state's electric grid.









Supporting Economic Growth

Investing in local electric infrastructure





- Helps provide a highly reliable and stable electricity source that meets the needs of the area's leading manufacturing and industrial firms.
- Strengthens the grid to respond to growing energy demands from the region's evolving economy and the thriving wine industry.
- Promotes a strong commercial environment that attracts and retains a diverse group of employers and industries.

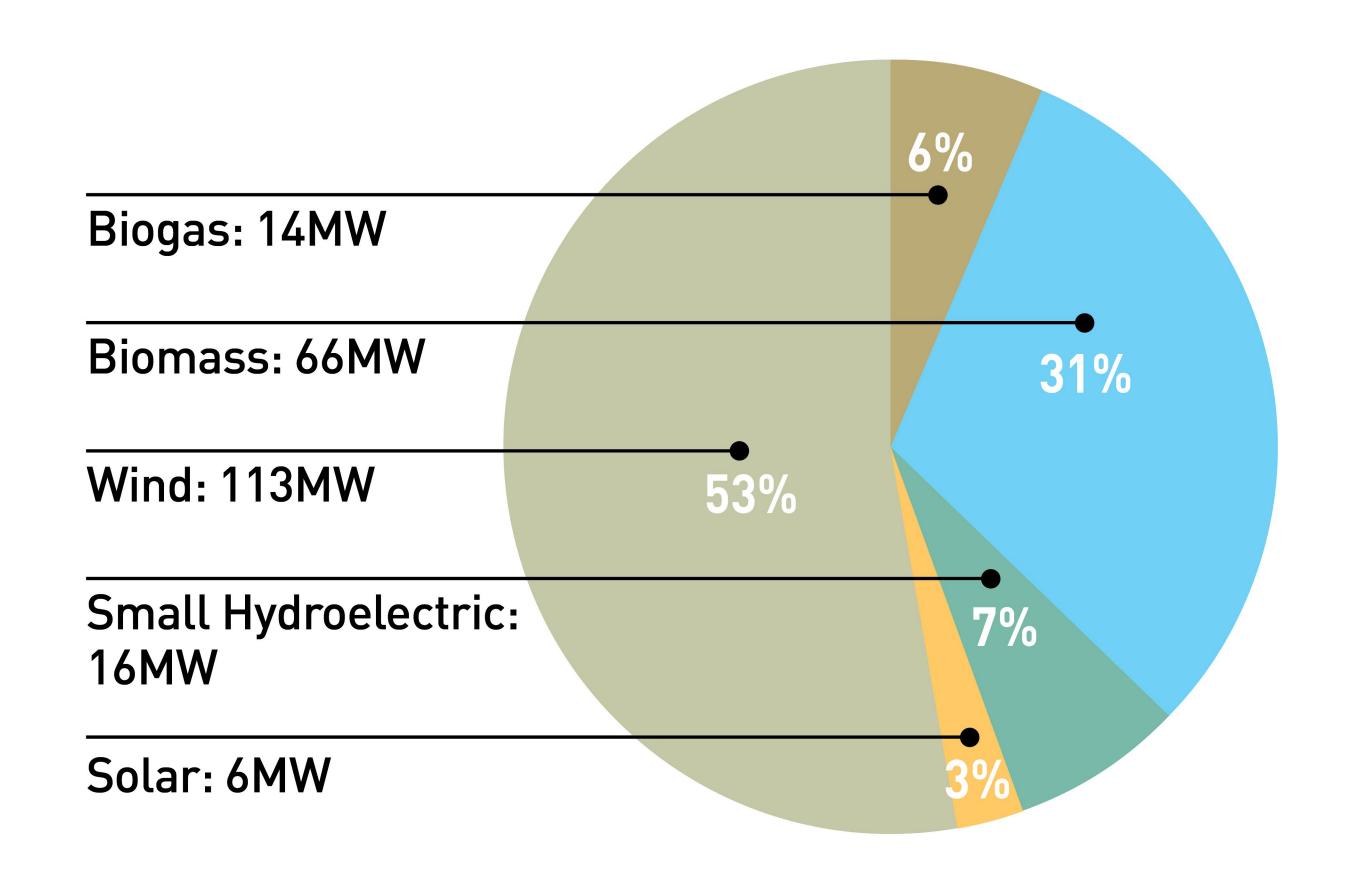




Supporting Clean Energy Goals

Helping deliver electricity generated from renewable energy sources

- PG&E is aggressively adding more renewable energy to our power mix under California's renewable portfolio standard, and we are well on our way toward 50 percent renewables by the end of 2030. Currently, more than 50 percent of the electric power supplied to PG&E customers comes from carbon-free sources.
- We deliver some of the nation's cleanest energy to our customers, and more than half of our electric power comes from renewable sources.
- Investments in the grid are important as we continue to explore new sources of renewable technology and actively expand our renewable energy supplies to support our commitment to meeting California's renewable energy goals.



Renewable Energy Capacity for Stockton Division







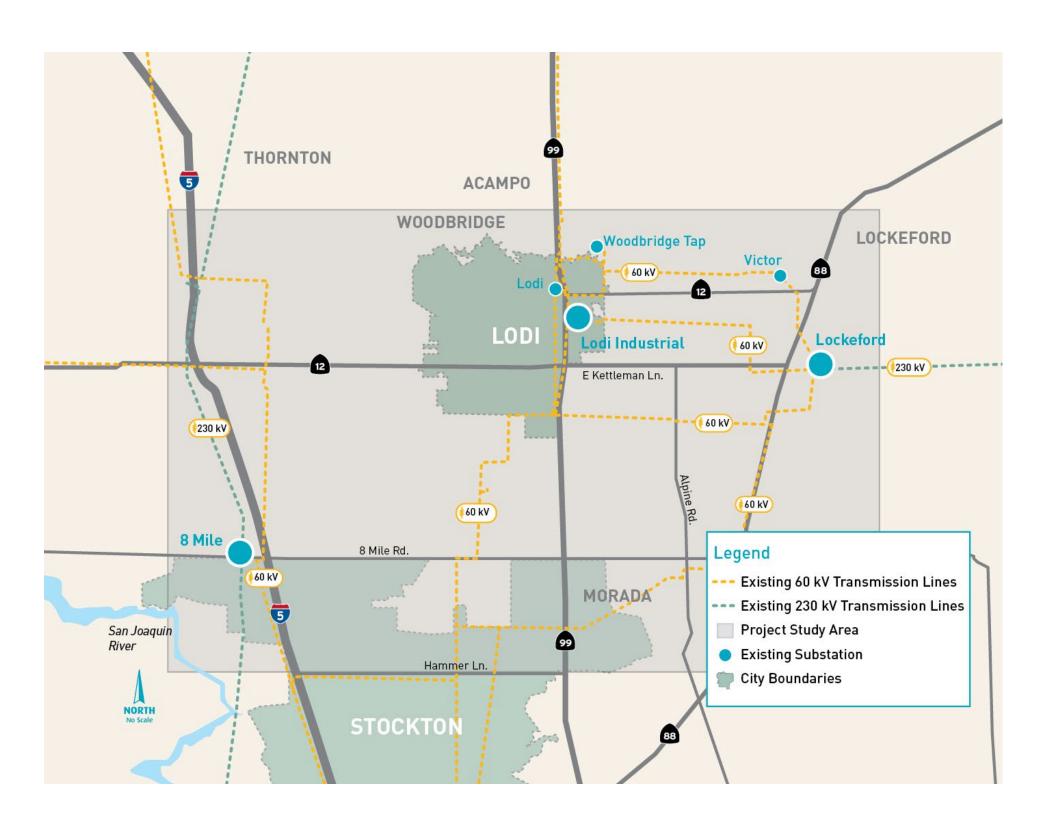


Phases of Outreach

Committed to community engagement

Phase 1

Initial stakeholder outreach and feedback



- Identify large geographic area where project could reasonably be located.
- Introduce the project, educate community about the process and listen to what matters to them before developing potential routes.

Phase 2

Project and route development and feedback

Map to be developed

- Conduct outreach and field reviews to determine opportunities and constraints.
- Refine the project study area and determine potential routes for the public to provide feedback.
- Hold public workshops and open houses to engage the local community.

Phase 3

Environmental analysis of potential alternatives and continued outreach

Map to be developed

- Continue gathering community input.
- Refine options for routes based on community feedback.
- Continue community engagement leading up to regulatory submittal.



Routing Criteria

Reducing impacts to the environment and local community

- We will work closely with the local community, government agencies and organizations to gather stakeholder input to help identify potential corridors and routes that minimize potential impacts.
- The California Public Utilities Commission, which has sole jurisdiction over the siting of transmission lines, will decide the final route following a robust review process that provides numerous additional opportunities for public input.

Potential routes take into consideration:

Established land uses;

Agricultural uses and crops, such as vineyards and orchards;

Length of the electric transmission line to improve reliability;

Biological, cultural and visual resources;

Constructability and engineering issues; and

Costs to customers.





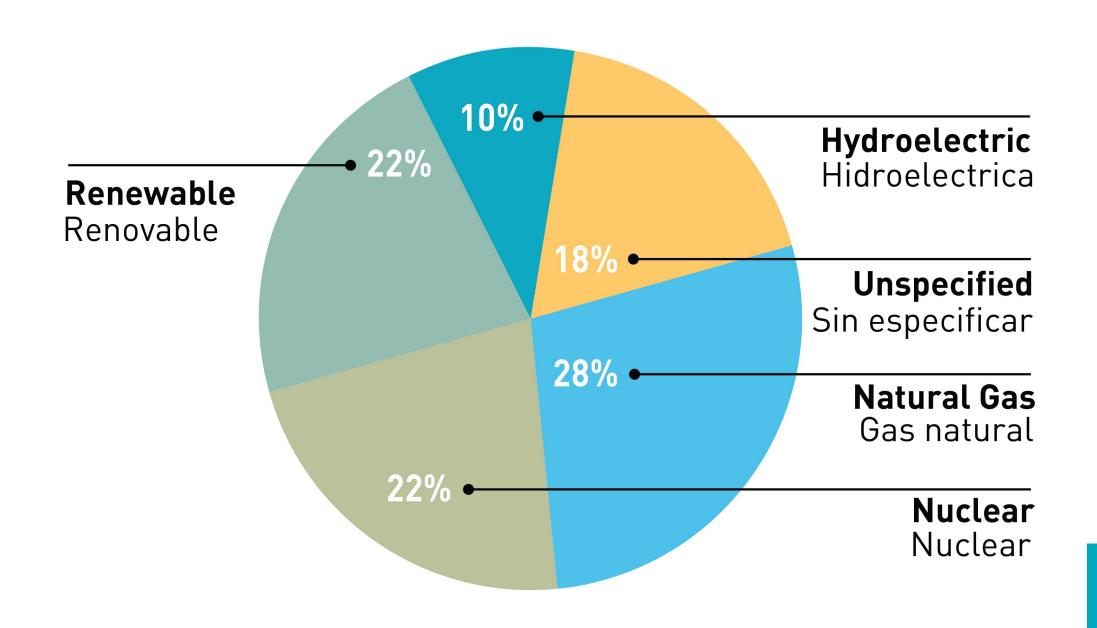




Electric Grid Overview Información general de la red eléctrica

How electricity moves from its source to your home or business

Cómo se mueve la electricidad desde su fuente hasta su hogar o negocio





Power Generation Generación de energía

Transmission Substation Subestación de transmisión

Transmission Lines Líneas de transmisión





Distribution Lines Líneas de distribución



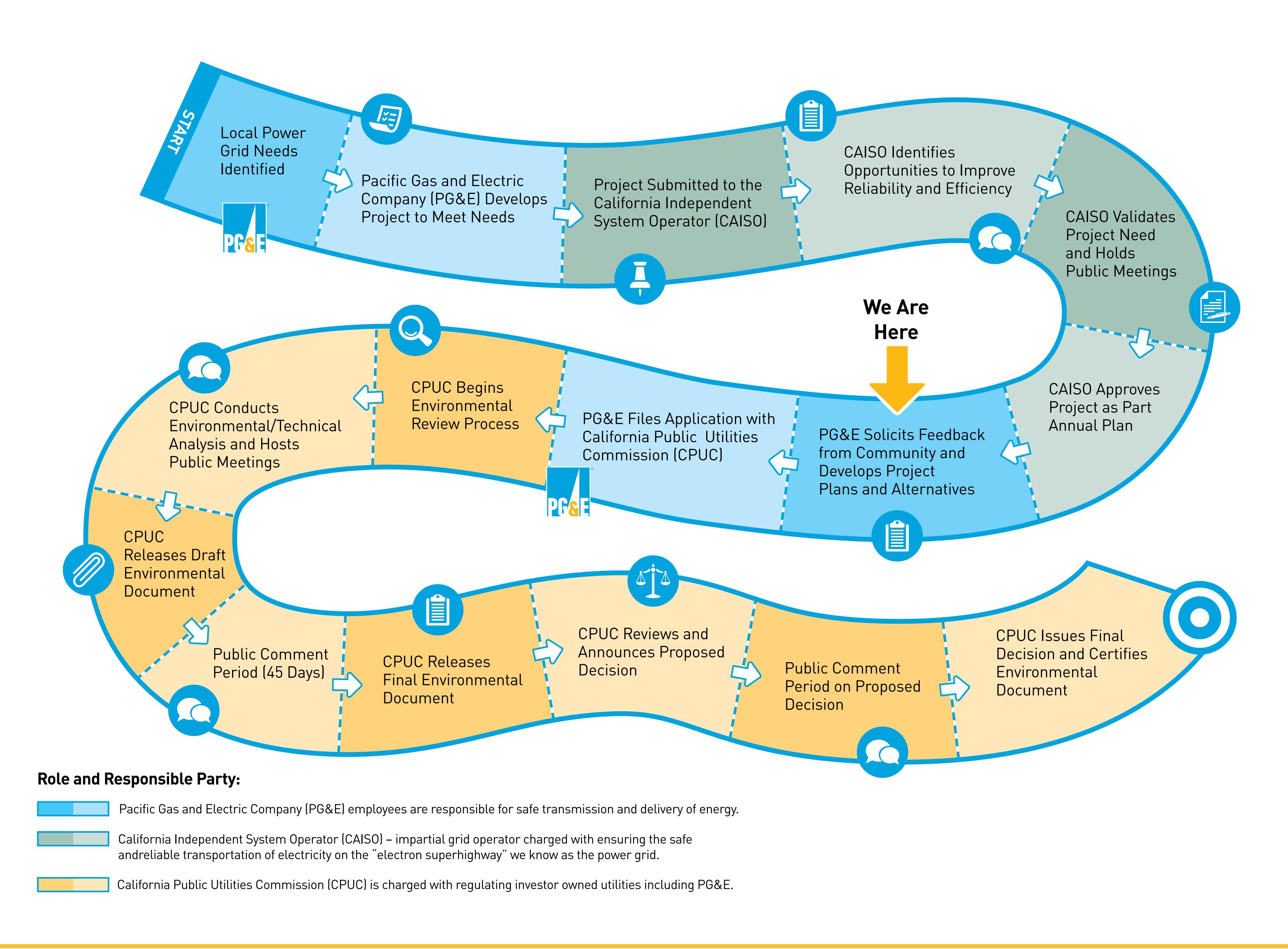
Distribution Substation Subestación de distribución

Homes and Businesses
Hogares y negocios



California Electric Projects Approval Process

Breaking down the regulatory process





Typical Transmission Line Structures

Potential options for project structures

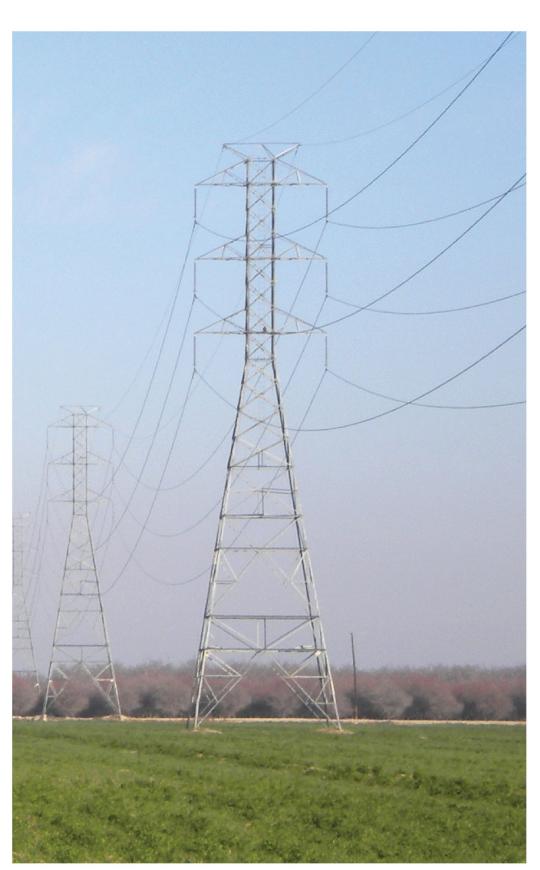
- We are committed to working with the community to minimize impacts while providing reliable energy for our future.
- Input gathered from the community will help direct the selection of the structures used for this project.

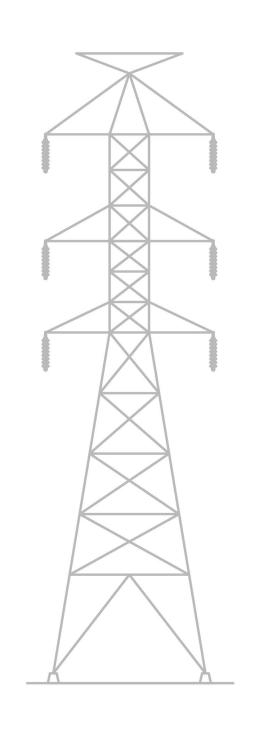
Estructuras típicas de la línea de transmisión

Posibles opciones para las estructuras del proyecto

- Nuestro compromiso es trabajar con la comunidad para minimizar impactos mientras suministramos energía confiable para nuestro futuro.
- Los comentarios de la comunidad ayudarán a dirigir la selección de las estructuras que se usarán en el proyecto.

230 kV









Tubular Steel Pole
Postes de acero tubulares





Potential options for transmission lines. Posibles opciones potenciales para las líneas de transmissión.