

Sycamore to Peñasquitos 230-kV Transmission Line

Did you know?

- The California Independent System Operator (CAISO) identified this project as a priority in its 2012-2013 Transmission Plan. Through a competitive solicitation process, SDG&E® was selected to construct and own the line.
- This project is subject to numerous mitigation measures as identified in the Final Environmental Impact Report's Mitigation Monitoring Compliance and Reporting Program.
- SDG&E has undertaken underground projects of this magnitude in the past, including extensive underground transmission line construction in downtown San Diego along Harbor Drive and Pacific Highway.

The California Public Utilities Commission (CPUC) approved a new 230-kilovolt (kV) transmission line that will run between SDG&E's existing Sycamore Canyon and Peñasquitos substations on October 13, 2016. The new line will help improve reliability and integrate more renewable energy into our system, which helps meet state mandated goals.

The Sycamore to Peñasquitos 230-kV transmission line project consists of approximately 14 miles traversing through developed residential and commercial areas as well as undeveloped areas and includes the following components:

- **Segment A** - Construction of approximately .75 miles of new 230-kV transmission line and relocated 138-kV power line on new tubular steel poles and steel H-frame structures all within SDG&E's existing right-of-way located between the Sycamore Canyon Substation and a trail starting at Stonebridge Parkway. Construction of a new cable pole at the transition point from overhead to underground.
- **Segment B** - Construction of approximately 11.5 miles of 230-kV underground transmission line under existing roads and bridges.
- **Segment C** - Construction of approximately 2.2 miles of new 230-kV transmission line and communication cable on existing 230-kV tubular steel poles within SDG&E's existing right-of-way from Scranton Road to the



The transmission line will help us maintain reliability to both local businesses and neighborhoods throughout the region.

Peñasquitos Substation. Construction of a new cable pole at the transition point from underground to overhead.

Minor modifications of the existing Sycamore Canyon and Peñasquitos Substations to allow for the connection of the new 230-kV transmission line.

Project purpose and need

A 230-kV transmission line connecting the Sycamore Canyon and Peñasquitos substations is critically needed. As originally identified by CAISO as well as Governor Brown's statewide task force, this new line is necessary to ensure the region has a reliable transmission grid due to the unexpected loss of generation at the San Onofre Nuclear Generating Station. The new transmission line is also needed to deliver increasing amounts of renewable energy and to deliver power safely and reliably to regional load centers. The project will improve the delivery of renewable energy to the San Diego coastal area and help meet the forecasted increase in electricity demand in the San Diego region.

» Benefits

Some of the key benefits of the project are:

- Improved reliability.
- Integration of existing renewable energy into our system.
- Elimination of potential long-term visual impacts by placing the majority of the transmission line underground.

Project schedule

Construction start date: January 2017

In-service date: June 2018

Construction information

As part of this project, SDG&E and its contractors will perform the following construction activities: site preparation; staging yard preparation and mobilization; conductor and structure removal; foundation and structure construction; wire stringing; road excavation and vault installation; trenching; conductor pulling and splicing; and clean up and restoration.

Construction activities will take place in phases along the route. There will be multiple construction locations and activities taking place concurrently, with work hours for each area determined in close coordination with the City of San Diego. It's anticipated that night work will be required in

some locations. Helicopters will be used for some activities along Segments A and C. Construction yards will be used for equipment staging, prepping materials and other construction-related activities.

It's important to note that construction activities often occur intermittently and are not completed concurrently. Traffic control measures will be followed in accordance with the City of San Diego and the Caltrans issued Traffic Control plans and permits.

Construction for each segment will start when the Notice to Proceed is received from the CPUC and all preconstruction conditions have been satisfied.

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Additional information

For more details about this project, please visit sdge.com/sx-pq and the CPUC's project page at www.cpuc.ca.gov/Environment/info/panoramaenv/Sycamore_Penasquitos/index.html.

