



California Public Utilities Commission (CPUC)

Since 1995 Aspen has prepared Environmental Impact Reports and Environmental Impact Statements for transmission line and pipeline projects throughout California. Our transmission line projects have included 230 and 500 kV lines, underground 230 kV lines, substations, and smaller voltage projects. In addition, Aspen has monitored the implementation of adopted mitigation measures during construction of both transmission line and pipeline projects in urban and remote settings.

Following are examples of Aspen's projects for the CPUC:

- SCE Devers-Palo Verde No. 2 Transmission Line Project EIR/EIS
- Antelope-Pardee 500 kV Transmission Line Project EIS/EIR
- PG&E Los Banos-Gates (Path 15) 500 kV Supplemental EIR
- SPPC Alturas Transmission Line EIR/EIS
- PG&E Jefferson-Martin 230 kV Transmission Project EIR
- SDG&E Miguel-Mission 230 kV Project EIR
- Pacific Pipeline Project EIR and EIS/SEIR
- Carson-Norwalk Pipeline Project EIR

California Energy Commission (CEC)

Since 2000, Aspen Environmental Group has been the prime contractor to support the Energy Commission in reviewing the engineering and environmental aspects of all new power plants in California. With 700 Work Authorizations, Aspen has completed work on over 40 power plant projects with a total capacity of nearly 6,000 megawatts, and we are currently working on many other projects. In addition to our analyses of individual power plants, following are examples of other projects we have completed for the Energy Commission:

- Coastal Power Plant Study
- Aging Power Plant Study
- Environmental Performance Report of California's Electric Generation Facilities
- Compliance Management for Emergency Siting Program
- Liquid Natural Gas Facilities: Analysis of Safety and Risk

See page 2 for detailed project descriptions. Please also visit the Aspen Environmental Group website for additional project descriptions in this service area as well as all of the capabilities Aspen can offer.

<http://www.AspenEG.com>



Contract Holder

California Public Utilities Commission

Transmission Line Projects

- ♦ **Antelope-Pardee 500 kV Transmission Line Project EIS/EIR.** EIS/EIR being prepared by USFS, Angeles National Forest and CPUC, for this proposed 25-mile long transmission line project from SCE's Antelope Substation in the City of Lancaster, through the ANF, and terminating at SCE's Pardee Substation in Santa Clarita.
- ♦ **SCE Devers-Palo Verde No. 2 Transmission Line Project EIR/EIS.** Preparing an EIR/EIS to evaluate the impacts of constructing a 230-mile 500 kV transmission line between the Palo Verde generating hub in Arizona and SCE's Devers Substation. The project also includes 50 miles of transmission upgrades through more developed areas of southern California (Riverside and San Bernardino Counties). Aspen is coordinating with the U.S. Bureau of Land Management.
- ♦ **Corporation of Delta (British Columbia, Canada).** Support to Intervenor in Vancouver Island Transmission Reinforcement Project. Provided technical support to the clients opposition to a 230 kV overhead, underground, and undersea transmission line project to serve Vancouver Island.
- ♦ **SPPCo Alturas Transmission Line EIR/EIS.** Prepared an EIR/EIS for a proposed 165-mile 345 kV transmission line, two new substations, and modifications to an existing substation. Aspen evaluated 20 alternatives (totaling over 90 miles) after considering over 50 alternatives in an initial screening process.
- ♦ **PG&E Jefferson-Martin 230 kV Transmission Project EIR.** Prepared an award-winning EIR for a proposed 27-mile underground and overhead 230 kV transmission line, substation modifications, and upgrades to an existing 60 kV transmission line. Analysis included underground and submarine alternatives. The three-volume Final EIR was over 2,700 pages long, with 38 wire and non-wire transmission alternatives.
- ♦ **PG&E Tri-Valley Capacity Increase Project EIR.** Prepared an EIR for a proposed 23-mile underground and overhead 230 kV transmission line, two new distribution substations, and modifications to an existing substation. A total of 27 potential alternatives were evaluated in the Draft EIR.
- ♦ **SDG&E Miguel-Mission 230 kV #2 Project EIR.** Prepared an EIR for a proposed 230 kV circuit within an existing transmission line corridor between Miguel and Mission Substations in San Diego County. The proposed project would include installing a new 230 kV circuit on existing towers along the 35-mile ROW, as well as relocating 69 kV and 138 kV circuits on new steel pole structures.
- ♦ **SCE Lucerne Valley-Big Bear Valley Transmission Line EIR/EIS.** Provided support to the CPUC in reviewing the EIR/EIS prepared by a contractor to SCE and managed preparation of several EIR/EIS sections, including analysis of electric and magnetic field (EMF) impacts.
- ♦ **PG&E Los Banos-Gates (Path 15) 500 kV Transmission Project Supplemental EIR.** Prepared SEIR for proposed 84-mile 500 kV transmission line, substation modifications, and upgrades to an existing 230 kV transmission line. The Draft SEIR was over 800 pages long and considered two major transmission corridors and several route variations.

California Energy Commission

Power Plant Projects

Aspen has contributed to the environmental and engineering assessment of approximately 60 power plants throughout California. Following are examples:

- ♦ **East Altamont Energy Center**
The East Altamont Energy Center is a 1,100-MW combined cycle power generation facility proposed by East Altamont Energy Center, LLC, a wholly owned subsidiary of Calpine Corporation. The project would be built on 55 acres of a 174-acre site located in unincorporated Alameda County, approximately one-mile west of the San Joaquin County line and 1.0 mile southeast of the Contra Costa County line.
- ♦ **Inland Empire Energy Center**
The Inland Empire Energy Center is a 670-MW combined cycle power generation facility proposed by Inland Empire Energy Center, LLC, a subsidiary of Calpine Corporation. The project would be built on approximately 46-acres near Romoland, in unincorporated Riverside County.
- ♦ **Morro Bay Power Plant Project**
The Morro Bay Power Plant Project, proposed to "modernize" the Morro Bay Power Plant, located at the existing 1,002-MW Morro Bay Power Plant site owned and operated by Duke Energy Mpprrp Bay LLC. The old plant was replaced by a 1,200-MW facility. Duke proposed construction of two new generating units with two state-of-the-art 600-MW combined cycle units.

Pipeline Projects

- ♦ **Pacific Pipeline EIR and EIS/SEIR**
Prepared environmental documents on this 130-mile crude oil pipeline for the Angeles National Forest and CPUC. It included a comprehensive analysis of environmental justice, an oil spill/system safety risk analyses, surveys of biological and cultural resources, and analyses of water and air quality impacts for alternatives originating in Santa Barbara, Kern, and San Bernardino Counties and terminating at refineries in the Los Angeles Basin. Aspen was also the prime contractor for environmental monitoring of project construction.
- ♦ **Kinder Morgan Carson-Norwalk Pipeline**
Aspen prepared an EIR for the CPUC for this central Los Angeles County petroleum products pipeline. Analysis included product spill and safety analyses focusing on the potential for spills to enter urban river channels and Long Beach Harbor, potential impacts on residents along the densely developed route, and construction impacts in urban environments.
- ♦ **Kinder Morgan Concord-Sacramento Pipeline**
For the California State Lands Commission, Aspen prepared an EIR for a 70-mile petroleum products pipeline that would cross the highly valued habitats of the Sacramento Delta, as well as passing through residential areas in Yolo County.

Aspen in Arizona

Aspen has been working on Arizona projects since 1998 when we started our first of three consecutive (and ongoing) contracts with the U.S. Army Corps of Engineers. In 2002, we opened Aspen Consulting Engineers in Phoenix.

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