

# Pacific Gas and Electric (PG&E) West Gates Solar Site

Construction services to complete all civil site work and development

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## Project Overview

Sustainable Group key personnel performed on-site construction services to complete site preparation and road construction for the West Gates Solar Station 10 MW Photovoltaic Plant. Total Contract Value \$639,000.00.

## Reference

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## Project Description

As part of the Pacific Gas and Electric Company (PG&E) 250 Mega Watt (MW) solar power initiative, Sustainable Group key personnel performed on-site construction services at the 10 MW West Gates solar power production site. The overall scope of work for this project included site preparation, construction of roads, fencing, entry and exits, and included the installation of Storm Water Pollution Prevention Plan (SWPPP) Best Management Practices (BMPs).

The West Gates Project Site is located on the northern side of West Jayne Avenue in Huron, California. The land was primarily used for agricultural purposes prior to PG&E's purchase of the property for utilization in their renewable energy program and the entire project consists of approximately 90 acres. The West Gates Solar Station is one of three projects being constructed within Fresno and King Counties. Collectively these projects provided green jobs to 200 local workers, wages of \$2.6 million and will benefit these counties with \$1.5 million in property taxes. They were completed in June of 2013 and generate a combined 150 MW of electricity – enough to meet the needs of approximately 45,000 homes. These sites represent the first big push in PG&E's efforts to develop renewable energy solar projects that they will own and operate. PG&E expects to build 250 MW of power-producing capacity over the next five years.

Sustainable Group key personnel were responsible for site preparation of the 90- acre field, including grading and compaction. Site development activities also included the site grading of approximately 75 acres for the power block area, construction of more than one mile of perimeter aggregate base roadways,



Grading operations



Retention pond

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### Key Personnel Certifications

PE, LEED AP, PMP, CFM, QSD/QSP

Sustainable Group is a Service Disabled Veteran Owned Small Business Corporation.

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Main gate construction



Final project completion

provision of a five-acre base course laydown area with two asphalt driveways, and construction of more than one mile of chain link security fencing.

Because the project site is relatively flat, it was identified as a sediment risk Level 1 per the project Storm Water Pollution Prevention Plan. Sustainable Group key personnel then applied the necessary BMPs as dictated per the approved erosion control plan, including geotextile silt fencing and straw wattles throughout the project area. In addition, a retention pond was built at the lowest portion of the site to allow for storm water run-off from the power block and laydown area. Overflow pipe protection was added for 100-year storm events, should they ever occur.

This project was completed on budget and on schedule despite a great deal of inclement weather. Rain impacted the construction progress due to the challenge of compacting the soils on-site during continuous storms. The rainwater saturated the on-site soils to such a degree that major efforts to process the soil were needed, to include discing, pulverizing, and natural drying. Despite these setbacks, West Gates was finished on time and without incident.

### About Sustainable Group

Headquartered in Moraga, California, Sustainable Group Inc. is a premier licensed General Contractor (CA #966993, HAZ) providing general construction environmental remediation, demolition, civil site development, and marine construction services. Sustainable Group also offers Leadership in Energy and Environmental Design (LEED) expertise pertaining to renewable energy and sustainable sites, as well as overall facilities management consulting services. Sustainable Group key personnel have over 22 years of experience in successfully executing projects and performing expert facilities management for multiple Federal entities including the Department of Homeland Security, Department of Energy, Department of Defense, Department of Transportation, and the Army Corps of Engineers.

### Let's Discuss Your Needs

Sustainable Group will become a highly valued and trusted resource that you'll rely upon to consistently provide expert, efficient and professional construction, remediation, demolition, LEED, and facility management consulting services. Contact us at your convenience; we look forward to discussing your needs.

For more information, call us at **925-899-9721**, or email [info@sustainable-group.com](mailto:info@sustainable-group.com).

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