

# Solar Installations for Portfolio of California School Districts

Solar power allows schools to manage energy costs, and support other educational needs



## DistributedEnergy



### Situation

California is one of the most ideal locations for renewable energy. It is a leader in clean energy initiatives with programs (such as the California Clean Energy Jobs Act and The Million Solar Roofs Initiative) that have funding available for schools to invest in solar energy. It is also one of the states with the highest solar energy opportunity, with many of its major metropolitan areas enjoying 150 to 188 sunny days per year, ranking it just behind Arizona and Nevada.

Due to budget reductions at schools, administrators were looking for new ways to cut costs and spend their money as efficiently as possible. Coupled with declining costs for solar panels, the availability of funding for solar projects, and the need to cut operating costs, solar installations became an attractive option for California school districts.

### Solution

By teaming with PFMG Solar, Constellation developed 35 MWs of solar generation within 3 years across 124 California schools. Constellation financed as well as owns and operates the solar power systems, which include ground, roof, carport and shade

structures. In return, the school districts agreed to purchase and receive all of the electricity generated by the solar panels at a fixed, competitive rate from Constellation under 20- to 25-year Power Purchase Agreements, which are expected to save them millions of dollars over the term of the agreement. Having fixed rates also allows administrators to anticipate energy costs and therefore manage limited school budgets more effectively.

Additionally, the solar projects offer real-time data monitoring capabilities that have been integrated into the school curriculum. The information from the display screens inside the school helps students learn how solar electricity works and about the benefits of renewable energy. Students can observe how solar energy is powering their schools, and at the same time be introduced to potential careers in Science, Technology, Engineering and Math (STEM) fields.

The solar power systems in the California school districts demonstrate a commitment to the environment by reducing pollution and greenhouse gas emissions, conserving natural resources, and fixing long-term energy costs for the schools—a win for both the schools and the environment.



America's energy choice®

## Highlights

### Saddleback Valley Unified School District

- Over 7,400,000 kWh expected to be generated annually
- 14,340 SolarWorld modules installed across 6 sites

### Alta Loma School District

- Over 3,100,000 kWh expected to be generated annually
- 5,603 SolarWorld modules installed across 11 sites

### Chaffey Joint Union High School District

#### Phase I and II:

- Over 11,900,000 kWh expected to be generated annually
- 25,253 SolarWorld modules installed across 8 sites

#### Phase III:

- Over 860,000 kWh expected to be generated annually
- 1,558 SolarWorld modules installed across 3 sites

## Work With a Trusted Energy Solutions Provider

At Constellation, we tailor our integrated energy solutions to your unique needs, providing you with the flexibility to choose how to cost-effectively buy, manage and use energy to meet your business goals. Along with our expertise, we offer a wide range of innovative and integrated distributed energy products—including solar, energy efficiency, cogeneration, backup generation, fuel cells and battery storage—as well as the reach of one of the nation's leading competitive suppliers of power, natural gas, renewable energy and energy management products. With more than 30 years of experience and over \$2 billion in energy-related projects financed and built, we help business, nonprofit and public sector customers achieve sustainability goals, develop energy resiliency, manage costs and capital needs, and mitigate risk.

## Start the Conversation Today

For information on any of our distributed energy solutions—contact us today at [distributedenergy@constellation.com](mailto:distributedenergy@constellation.com) or visit [www.constellation.com/distributedenergy](http://www.constellation.com/distributedenergy)

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