Trinasolar

CASE STUDY

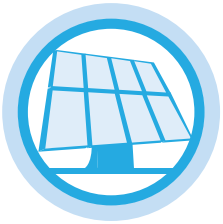
# ORO LOMA SANITARY DISTRICT
CALIFORNIA, USA

## OVERVIEW:

Solar Power Partners and Oro Loma partnered with DRI Energy to design, build, and install a system to produce 468kW using Trina Solar panels.



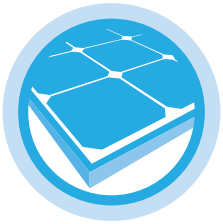
**LOCATION**
San Lorenzo, California



**TYPE**
Single-axis tracker



**SIZE**
468kW



**PRODUCT**
ALLMAX



**# OF MODULES**
More than 2,100



**COMPLETION DATE**
February 2011

## BACKGROUND

Oro Loma Sanitary District provides wastewater collection and treatment services, and residential and commercial solid waste and recycling services to its customers.

An effort to evaluate the district's power usage started nearly four years ago, when district officials decided to run an energy audit to look at how to best become self-sufficient. Those discussions led to a partnership with Mill Valley-based Solar Power Partners, which developed, financed, owns and operates the solar facility on the district's property.

## THE PLAYERS

Solar Power Partners and Oro Loma partnered with DRI Energy to design, build, and install the single-axis tracker project. DRI Energy used over 2,100 Trina Solar 220 watt modules on a Raytracker single-axis tracking system. The output from the solar array and the facility's existing digester gas facility, mean the District is 100% self sufficient in its electrical needs.

## THE CHALLENGE

Engineers were faced with two challenges: trying to accommodate a previous design that ultimately proved unworkable; and two on site power generation systems that could not be interfered with. The cogeneration systems feature sensitive controls and protective relays that the solar system could not interfere with in the event that PG&E power was to go down. Engineers custom designed a fiber optic based interlock to immediately shut off the inverters should PG&E power go down. The project was completed on time and on budget.

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## RESULTS

The system offers the saving the equivalent of 590 metric tons of $CO_2$, equal to the one-year greenhouse gas emissions of 113 passenger vehicles, the $CO_2$ emissions from the electricity use of 72 homes for one year.

## THE SOLUTION

Currently the most popular panel produced by Trina Solar. Versatile and adaptable, with power output ranging from 220 to 240Wp, the ALLMAX panel is perfect for large-scale installations, particularly ground-mounted and commercial rooftop systems. Using reliable and carefully selected components that are tested at the Trina Solar Center of Excellence, this panel comes with a 25-year performance guarantee of 80% power production.

