



# MADERA POWER PLANT CALIFORNIA, USA

## GROUND MOUNTED INSTALLATION

- Largest dual axis tracker installation in the country
- Installation will meet an estimated 62% of the facility's power needs
- Over 45 million kWh generated over 20 years



1.1  
MW SYSTEM  
SIZE

2,250  
MWh ANNUAL  
CAPACITY

2,350  
TONS CO<sub>2</sub> SAVED  
ANNUALLY



POWER PLANT  
INSTALLATION

## REC solar panels power one of the state of California's largest waste water treatment facilities.

"Finding ways to reduce costs for taxpayers while reducing our carbon footprint should be a goal of responsible government at all levels."

KEITH HELMUTH, MADERA'S CITY ENGINEER



**REC SOLAR PANELS** were selected to power one of California's largest waste water treatment facilities. 52 REC panels were fit onto each of the 49 Meca dual-axis trackers at the site. The project was developed jointly by REC Solar Inc. and SunEdison. The REC Peak Energy panels are perfectly suited to maximize the power output at this treatment plant, and on the dual-axis trackers the panels, they are able to achieve their peak performance during the daylight hours by following the sun's path across the sky.

Under a strategic power purchase agreement (PPA) between SunEdison and the City of Madera, SunEdison will finance, operate and maintain the solar power plant, and the city will purchase the energy produced to offset demand from the grid at predictable energy rates for 20 years.



"The City of Madera will truly benefit from this investment, by achieving a lower cost of electricity for at least the next 20 years," states Keith Helmuth, Madera's City Engineer who oversaw the project.

The system is expected to produce and estimated of energy of more than 45 million kWh over twenty years. That is enough energy to power more than 4,200 average U.S. homes for one year. The environmental assets associated with the system will offset an estimated 47 million pounds of CO<sub>2</sub> over twenty years, the equivalent of removing an estimated 4,600 cars off the road for one year.

### PROJECT OVERVIEW

## MADERA POWERPLANT

### GROUND MOUNTED INSTALLATION

**Owner:**

Sun Edison and the City of Madera

**Location:**

Madera, California

**Type of Installation:**

Ground mounted dual axis

**System Size:**

1.1 MW

**Module Types:**

REC 220PE

**Number of modules installed:**

5,267

**Annual capacity:**

2.4 million kWh

**Completion Date:**

November 2010

**Installer:**

REC Solar Inc.

REC is a leading global provider of solar energy solutions. With more than 15 years of experience, we offer sustainable, high performing products, services and investments for the solar industry. Together with our partners, we create value by providing solutions that better meet the world's growing energy needs. REC is headquartered in Norway and listed on the Oslo Stock Exchange (ticker: RECSOL). Our 1,600 employees worldwide generated revenues of USD 647 million in 2013.



[www.recgroup.com](http://www.recgroup.com)