



## Project Fact Sheet High Tech High Chula Vista Solar Power Installation

### Solar Power System

The solar array is located at High Tech High Chula Vista and is owned by San Diego Gas & Electric (SDG&E). It is a part of the sustainable design of the school itself which will be used as a three-dimensional textbook. The school's rooftop solar panels are owned by SDG&E and provide renewable power to the community.

The solar system, installed by HelioPower, is a milestone for SDG&E because it puts the utility at over one megawatt of solar installed on highly energy efficient buildings throughout 12 solar projects in San Diego County. It is also the third largest solar system in Chula Vista.

With 640 solar modules from Mitsubishi, the solar power system will produce 172,114 kilowatt hours (kWh) of renewable electricity per year.

### System Specifications:

- Project Start Date: December 1, 2008
- Commissioning Date: February 12, 2009
- Installation Time Frame: ~40 Days
- Modules: 640 Mitsubishi PV-UD185MF5
- Standard Test Conditions (STC): 118kW DC
- PV USA Rating (PTC): 105kW DC
- Racking System: Professional Solar Products
- Inverter Manufacturer: Satcon
- Type: PVS-100 480VAC
- Maximum Power Point Tracking: 295-600vdc
- CEC Weighted Efficiency: 96%
- Average Solar Resource: 5.23 kWh/m<sup>2</sup>/day
- Average Annual AC Production: 172,114 kWh
- System performance monitoring, Fat Spaniel

### Environmental Offset Data:

- Estimated Annual Carbon Dioxide Offset: 230,633 lbs
- Estimated Annual Nitrous Oxide Offset: 327 lbs
- Estimated Annual Sulfur Dioxide Offset: 826 lbs



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