



#### PROJECT OVERVIEW

**Location:** Phoenix, AZ

**Completed:** January 2007

**Owners:** City of Phoenix

**Installer:** Dependable Solar Products

**System Size:** 38 kilowatts

**Number of panels:** 228

**Product:** Suntech 170w Monocrystalline Modules

**Energy Saved:** 62,000 kilowatt hours annually

#### BENEFITS

- 62,000 kilowatt hours saved annually
- Offsets the community center's use of fossil fuels by 20%
- Installation educates thousands of community residents about renewable energy
- Reduces the City of Phoenix's overall exposure to rising energy prices in the future

"The Suntech solar modules are required to perform well under a wide temperature range. Phoenix temperatures vary between freezing in the winter months to over 115 degrees in the summer months. The Suntech solar modules have performed well under these rather extreme conditions and the PV system output has exceeded expectations."

James D. Beard, PE  
Project Manager

## City of Phoenix Energizes the Community with Suntech Solar Panels

### Suntech Solar Installation Reduces Fossil Fuel Use and Saves Money

In January 2007 Phoenix city officials and the local utility Salt River Project tapped into the most abundant resource in the Valley of the Sun by installing a Suntech solar array on the new Pecos Community Center in the Ahwatukee Foothills. Over the lifetime of the installation, the system will reduce fossil use by 20% and save the city money as energy prices rise.

### City of Phoenix Uses Installation to Educate the Public on Solar Energy

The city also installed a monitor at the center that displays how the solar system powers the community center. "The real-time information posting on the monitor is a great educational tool and it raises sustainability and green energy awareness for our residents" said Dimitrios Laloudakis, the City's Energy Manager.



## Dependable Solar Overcomes Installation Challenges

The Pecos Community Center solar installation posed several unique challenges for Dependable Solar Products. Chief among these was a prohibition on making any roof penetrations. After considerable design, DSP came up with an innovative ballasted roof mounting system that accommodates the uneven roof surface and works well with the Suntech



Suntech was founded on a passion for solar energy and its power to transform the way we live. Our dreams for tomorrow are BIG and our company has grown exponentially to realize our aspirations for a greener tomorrow.

Today we stand on the cusp of a revolution that will change the way the world generates electricity, and at Suntech we are working hard to introduce tomorrow's technology to the world today!

This is Suntech. We believe in the power of solar energy. It is what we do. ***It is all that we do!***

STP 170 solar modules—while still providing an aesthetically pleasing installation.

## Suntech Panels Recognized As a Highly Dependable and Green Source of Energy

In addition, Dimitrios noted that the system has performed extremely well to date with a recorded peak power output of 31.7 kW AC. "Information from the data acquisition system shows that 62,445 kWh were generated in the last 12 months (rolling 365-day energy output) which is equivalent to the average annual energy needs of five Phoenix homes while the system's environmental contribution means that since its connect date, the greenhouse gas (GHG) avoidance is equivalent to taking ten (10) cars off the roads of Phoenix" said Dimitrios about the system's performance and environmental attributes.