

# TECHNOLOGY DEVELOPMENT PROJECT FACT SHEET

## SP002: PRESCOTT AIRPORT SOLAR POWER PLANT

The Prescott Airport Solar Power Plant is a multi-megawatt solar site featuring two types of photovoltaic (PV) technologies – single axis tracking flat plate PV, and two-axis tracking High Concentrating PV (HCPV). Started in 2002, over 5 MW is planned to cover 55 acres. Over 3.5 MW of one-axis PV is under construction, using conventional PV panels. These systems deliver more energy from the solar panels by rotating them on a horizontal axis throughout the day.



Over 1.5 MW of HCPV system is under construction. These systems use plastic lenses to concentrate the sunlight 250 times onto much smaller, high efficiency solar cells. This reduces the area of PV material by 250 times, which should result in a potentially low cost solar electric generation technology.

Location: Near the Love Field Airport, Prescott, Arizona

Plant Output (as of July 2006)	3,387,850 Watts DC 2,879,700 Watts AC
Solar Module Manufacturers:	BP Solar, Sharp Electronics, Amonix
Inverter Manufacturer:	Xantrex & AES
Inverter Power Ratings, AC:	30, 37 kW & 125 kW
Type of Tracking:	Single Axis and Two Axis High Concentration
Projected Annual Energy Generation:	6,335,340 kWh AC

**Estimated emissions avoided as a result of operating this solar power plant based on APS' 2003 fuel mix:**

<b>CO2</b>	<b>8,045,882 Lb/yr</b>
<b>SOx</b>	<b>8,869 Lb/yr</b>
<b>NOx</b>	<b>16,472 Lb/yr</b>
<b>Particulates</b>	<b>1,140 Lb/yr</b>



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