TECHNOLOGY DEVELOPMENT PROJECT FACT SHEET

SP018: Prescott College Solar Power Plant

Completed in 2004, the Prescott College Solar Power Plant was a collaboration between APS and Prescott College to enhance the environmental ideals of the college and add to the APS solar plant family. There are three rows of 24 panels, fixed at a 10 degree angle which not only generate 10,000 Watts of electricity but also serve as a shade source for the second story.

Location: 215 Garden St. Prescott. Arizona

Plant Output:	11,500 Watts DC 10,000 Watts AC
Solar Module Manufacturer:	Sharp – NT- R5E3H
Solar Module Power per panel:	175 Watts DC
Quantity of Solar Modules:	72
Inverter Manufacturer:	Xantrex Model PV10208
Inverter Power Rating, AC :	10,000 Watt
Quantity of Inverters:	1
Type of Tracking:	Fixed
Projected Annual Energy Generation:	16,065 kWh AC

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

CO2	**20,403 Lb/yr**
SOx	**22 Lb/yr**
NOx	**42 Lb/yr**
Particulates	**2.89 Lb/yr**

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