

TECHNOLOGY DEVELOPMENT PROJECT FACT SHEET

SP010: APS Tempe Solar Power Plant

Phase I of the APS Tempe Solar Power Plant was dedicated in April, 1998 and was the first commercial solar power plant in the Valley. Phase II has a MaxTracker® system that has been used at subsequent APS Solar Power Plants. This plant utilizes single-axis tracking to maximize the amount of energy the panels produce over the course of a year. The sun is tracked via computer, positioning the solar panel arrays at the optimum direction for maximum solar exposure.



Location: 1500 E. University, Tempe, Arizona

Plant Output: 204,000 Watts DC
177,000 Watts AC

Phase I Modular Mfr.: SSI SP75-LJ
Phase II Module Mfr.: UPG
Phase I Solar Module Power: 75 Watts DC
Phase II Solar Module Power: 109 Watts DC
Quantity of Modules: 1260
Inverter Manufacturer: UPG
Inverter Rating: 15,000 Watts AC
Quantity of Inverters: 6
Type of Tracking: Single Axis

Projected Annual Energy Generation 415,950 kWh AC

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

CO2	528,257 Lb/yr
SOx	583 Lb/yr
NOx	1,081 Lb/yr
Particulates	75 Lb/yr



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