

TECHNOLOGY DEVELOPMENT PROJECT FACT SHEET

SP016: Yuma West Wetlands Solar Garden

The Yuma West Wetlands Solar Garden Power Plant was a vision between APS, the City of Yuma and the Heritage Foundation, to display the environmental ideals of the West Wetlands Park. The plant, which was completed in 2005, consists of 24 single-axis trackers tilted toward the south at a 30 degree angle. The output from one of the trackers is displayed in the ramada in front of the solar garden.



Location: 1300 W. Water Street, Yuma, Arizona

Plant Output:	86,400 Watts DC 72,000 Watts AC
Solar Module Manufacturer:	ASE (Mono-crystalline)
Solar Module Power:	300 Watts DC per module
Quantity of Modules per tracker:	12
Total quantity of Solar Modules:	288
Inverter Manufacturer:	Magnetek, Aurora Mod. #PVI-3000-I-OUTD-US
Inverter Power Rating, AC :	3,000 Watts
Quantity of Inverters:	24
Type of Tracking:	East to West with 30 degree tilt to the South

Projected Annual Energy Generation: 172,800 kWh AC

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

CO2	219,456 Lb/yr
SOx	242 Lb/yr
NOx	449 Lb/yr
Particulates	31.10 Lb/yr



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