

TECHNOLOGY DEVELOPMENT PROJECT FACT SHEET

SP009: Yucca Solar Power Plant

This was the first APS solar power plant to be built in the Southwest area of Arizona and is located on the grounds of the APS Yucca natural gas fired power plant. The APS Yucca solar power plants consists of 18 rows of horizontally mounted photovoltaic panels that track the sun from East to West each day and produces up to 100 kW of AC electrical power.



Location: 7522 S. Somerton Ave., Yuma, Arizona

Plant Output:	120,960 Watts DC 100,000 Watts AC
Modular Manufacturer:	BP Solar
Solar Module Power:	140 Watts DC
Quantity of Modules:	864
Inverter Manufacturer:	Trace Technologies
Inverter Rating:	30,000 Watts AC
Quantity of Inverters:	4
Type of Tracking:	Single Axis
Projected Annual Energy Generation:	235,000 kWh AC

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

CO2	298,450 Lb/yr
SOx	329 Lb/yr
NOx	611 Lb/yr
Particulates	42 Lb/yr

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