

TECHNOLOGY DEVELOPMENT PROJECT FACT SHEET

SP007: Prescott Embry Riddle Aeronautical University

This is the first large solar plant in Prescott, Arizona. It is a single axis tracking system located on the grounds of the Embry Riddle Aeronautical University near the main entrance to the campus. The plant consists of 768 PV panels arranged in 16 rows with 48 panels per row. Each row is approximately 160 feet long and five feet high with the solar modules in the horizontal position. They extend to a height of approximately eight feet when the modules are tilted toward their east or west extreme position, about 45 degrees from horizontal. The system is designed to provide electricity to the grid when the grid is available. Should this section of the grid become disconnected from the rest of the power system, the solar power inverters will shut down and wait until normal grid power is restored, before they restart, which they do automatically.



Location: 3200 Willow Creek Road, Prescott, Arizona

Plant Output:	230,000 Watts DC 195,000 Watts AC
Quantity of Modules:	768
Tracking:	Single Axis
Manufacturer:	ASE Americas
Inverter Manufacturer:	Trace Technologies
Inverter Power Rating:	30,000 Watts AC
Quantity of Inverters:	8
Projected Annual Energy Generation:	458,250 kWh AC

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

CO2	581,978 Lb/yr
SOx	642 Lb/yr
NOx	1,191 Lb/yr
Particulates	82 Lb/yr



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