TECHNOLOGY DEVELOPMENT PROJECT FACT SHEET

SP029: NAU Campus Solar Power Plant

As part of the Platinum LEED Certification requirements of the NAU ARD Building, a 160 kW solar electric generating plant was constructed on the NAU campus to provide at least 20% of the electricity required to power the ARD Building.

The solar power plant was designed and constructed by APS, based on the proven single axis tracing technology. This technology utilizes photovoltaic panels which track the sun throughout the day by moving in an East to West rotation.

This type of movement improves the performance of a photovoltaic solar system by generating up to 20% more electricity during the course of a year, than if the same photovoltaic panels remained stationary. This is one of the largest privately owned solar systems in Arizona.

Plant Output:	166,000 Watts DC
Module Manufacturer:	Sharp
Quantity of Modules:	798
Inverter Manufacturer:	Xantrex
Inverter Power Rating (AES):	225,000 Watts
Quantity of Inverters:	1
Type of Tracking:	Single Axis
Projected Annual Energy Generation:	332,000 kWh AC

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

CO2	**421,640 lb/yr**
SOx	**465 lb/yr**
NOx	**863 lb/yr**
Particulates	**60 lb/yr**

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