

TECHNOLOGY DEVELOPMENT PROJECT FACT SHEET

SP013: STMicro Rooftop Solar System

The STMicro rooftop solar system was the first solar application in Arizona installed for a commercial grid-connected customer. STMicro purchases all the energy generated by the panels through the APS Solar Partner Program, and gets the rest of it's power from the grid. The system is a horizontally fixed panel configuration, mounted flat on the roof with synthetic supports which hold the solar panels in place. There are no roof penetrations required for the mounting of the panels



Location: 1010 E. Bell Road, Phoenix, Arizona

Plant Output:	26,000 Watts DC 22,100 Watts AC
Solar Module Manufacturer:	Astropower
Solar Module Power:	130 Watts
Quantity of Solar Modules:	198
Inverter Manufacturer:	Trace
Inverter Power Rating, AC :	2,200 Watts AC
Quantity of Inverters:	1
Type of Tracking:	Fixed

Projected Annual Energy Generation: 27,625 kWh AC

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

CO2	35,084 Lb/yr
SOx	39 Lb/yr
NOx	72 Lb/yr
Particulates	4.97 Lb/yr



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