

Case Study:

Pennington Street Garage

Tucson, Arizona

“The City of Tucson has required sustainable design and construction practices be used on construction of all City owned facilities since 1999. The solar system included as part of the Pennington Street Parking Garage Project is one of the many sustainable features the project incorporated. The solar system not only produces power, it shades parking spaces, an important consideration in Tucson, Arizona.”

– **Vinnie Hunt**, Administrator, General Services Department
Architecture and Engineering Division, City of Tucson

System Specifications**System Size**

60.1 kW STC

Estimated Yearly Power Production

110,000 kWh

System Configuration**Utility Interaction** - Grid Connected**Solar Modules** – 360 KC167G**Inverters** – 10 SMA Sunny Boy 6000U**Batteries** - None**Charge Controllers** - None**Mount Structure**

Custom designed steel carport shade canopy

Unique Feature

This system offsets the purchase of utility power during daytime hours for the City of Tucson. The uniquely integrated PV array acts not only as a power generator, but also as a shade structure for an entire row of parking spaces on the top floor of a seven story garage.

Location

110 E Pennington St., Tucson, AZ 85701

Date Completed

September 2005

Designer/Installer/Contractor

Kyocera Solar, Inc. – Component Provider

American Solar Electric – Designer, Installer



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About American Solar Electric, Inc.

American Solar Electric, Inc. is a Phoenix-based design / build firm specializing in solar electric power systems for commercial, industrial and residential applications. The company offers complete design services and is licensed, bonded, and insured for both commercial and residential electrical contracting in the State of Arizona under ROC license class K-11, #168657.

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About Kyocera Solar

Kyocera Solar, Inc. is a world-leading supplier of environmentally sound, solar electric energy solutions, with headquarters in Scottsdale, AZ and sales affiliates in Brazil and Australia. Kyocera's expertise is based upon designing, manufacturing, and installing the most technologically advanced solar electric power systems available today. With thousands of successful installations worldwide, Kyocera continues to be the leader in the solar electric industry.

The company is a wholly-owned subsidiary of Kyocera International, Inc. of San Diego, the North American headquarters and holding company for Kyoto, Japan-based Kyocera Corporation (NYSE: KYO).

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