

# CASE STUDY

Solar Energy

## Rooftop Solar PV Panel Arrays

Nashville, TN

Puckett Engineering engineered the power distribution for a design/build solar project (Integrated Solar provided installation) to deliver 42kW of AC power to the utility grid. The array, consisting of 180 photovoltaic panels, produces 3-phase AC power via a network of string and micro-inverters. The power generated from the solar array is purchased through credits by the Tennessee Valley Authority (TVA) under TVA's Green Power Switch Program, a production-based incentive program. To maximize return on investment while minimizing life cycle costs, a monitoring system was installed for the micro-inverter system.

### PROBLEM OR NEED

Solar panel array designed for rooftop installation and tied into TVA under Green Power Switch Program

### PUCKETT SOLUTIONS

Designed power distribution to deliver 42kW to the utility grid

Included monitoring system for micro-inverter system

Design/build project with Integrated Solar



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Year Completed: 2011

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