



Residential Solar Electric Project Case Study

Site Information

Site Name: Austin Residence

City: Katy, TX

Solar System Description

Renewable Energy Systems: 4.05 KW DC Solar Electric System

Attic Breeze 25 Watt Attic Fan

Installer: Alternative Power Solutions

Date Installed: April 2010

System Cost (at todays prices): \$26,400

Approximate Energy Provided: Solar Electric – 370 KWh per month

Approximate Cost Savings at 12 cents/kwh: The solar PV systems saves the home owner approximately \$43/month or 25% off this homes standard electric bill. This system qualified the homeowner for a \$7,900 tax credit, increase the property value by \$10,100, and will produce over \$48,900 worth of solar energy during its lifetime.

The attic fan is projected to save the homeowners another \$30 per month by reducing the temperature in the homes attic during the summer months.

Description of Installation:

The grid-tie 4.05 KW Solar PV system consists of 18 BP 225 Watt panels which are ground mounted on an engineered rack and southern facing. This system uses 1 PV Power 4800 grid tie inverter to make the power conversion from DC to AC electricity.

