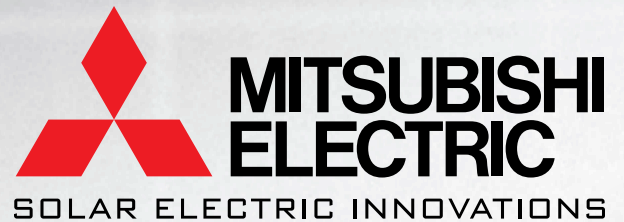


CASE STUDY



Big Box Retailer Installs Largest Solar System in Hawaii

On January 30, 2008 one of the most well known international chains of membership warehouses showed its commitment to sustainability by installing Hawaii's largest solar electric system to date on its Kona, Hawaii warehouse.

While Hawaii is known by many as a paradise with pristine beaches, relaxing local culture, and remarkable scenery, what many people don't know is that Hawaii has some of the highest electric rates in the country, making solar energy an obvious choice. The generation of solar electricity gives the company more control over its electric rates in the long term, and a solar electric system can also substantially reduce demand on expensive utility power during periods of peak usage. The retailer's solar power system generates the most electricity precisely during the times when power usage – and utility rates – are at their highest: hot summer afternoons.

The solar electric system on the retailer's Kona warehouse was designed and installed by REC Solar, Inc. an industry-leading solar power provider specializing in grid-tied residential and commercial installations. The 54,400 square-foot turnkey system used REC Solar's state-of-the-art racking system, SolARak. The innovative SolARak mounting technology simplifies the installation process, reducing the time and cost of installation compared to traditional mounting solutions. This big box retailer is the first customer to deploy REC Solar's breakthrough racking technology.

The 680kW DC installation is comprised of over 3,800 Mitsubishi Electric photovoltaic modules and will power nearly a third of its Kona facility. Mitsubishi Electric modules are known for their high reliability and high power output and high one of the highest PTC (real-life performance) ratings in the solar industry. They are covered by a 25-year power output warranty and have some of the most cutting edge safety features in the industry including a triple-layer junction box, an extra back protection bar, and use only 100% lead-free solder.



Case Study
BIG BOX RETAILER

CASE STUDY

BIG BOX RETAILER (cont.)

By taking advantage of state and federal rebates, the retailer was able to offset approximately 65% of the upfront cost of the system, and together with the high electric rates in the state, the solar system is expected to pay for itself in just 3-5 years.

By generating clean electricity from the sun instead of fossil fuels, this 680kW installation will save approximately 13,675 tons of CO₂ from entering the environment over the 25 year life of the system. This is equivalent to driving 39 million miles.* The installation of solar electricity is just another example of this big box retailer's ongoing energy-savings effort.

* Based on estimates from www.climatecare.org.



PROJECT DETAILS:

System Size: 680 kW DC

Project Completed: December, 2007

Location: Kona, Hawaii

Solar Panels: 3,888 Mitsubishi Electric
185Wp modules

Inverters: Xantrex inverters

Monitoring System: Energy Recommerce

Mounting System: Solarak™

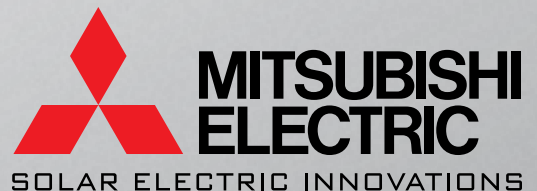
System Integrator: REC Solar, Inc.

Estimated Annual kWh: 1,020,000 kWh

FOR MORE INFO:

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www.recsolar.com



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