



## Sunetric Commercial Case Study **Y.HATA & CO., LTD.**

*"We are committed to maintaining a state-of-the-art facility, so installing a photovoltaic solar system with the help of Sunetric, the industry's experts, is right on target. In essence, our customers will benefit as we provide them with the most cost-effective reliable service available."* - Kurt Fey, VP of Operations Y.Hata & Co., Ltd.

Hawaii's premier foodservice distributor, Y. Hata & Co., Ltd. is distributing more than just food and restaurant supplies. Sunetric, the state's largest locally owned-and-operated solar company, has installed Hawaii's largest roof-mounted photovoltaic (PV) solar systems on Y. Hata's warehouse on Sand Island, Oahu. The 600 kW installation stands to be the largest on Oahu in 2010, allowing Y. Hata & Co. to redistribute the sun's energy for more than 25 years.

The \$2.5-million system will include 2,616 230-watt solar modules on Y. Hata's rooftop space. The system is estimated to produce an average of 2,636 kWh of electricity each day, allowing Y. Hata to offset 22 percent of its current electricity usage. "This system will make a positive impact on Y. Hata's business and a huge impact on Hawaii's environment," says Marc Unowitz, Sunetric energy consultant. Over the next 30 years, Y. Hata's PV system is estimated to prevent approximately 23,000 tons of carbon dioxide emissions from entering Hawaii's air annually; this is about the same pollution generated by 15-million car trips to the local grocery store.

Sunetric designed the 600 kilowatt system, which will result in over 45 million fewer pounds of carbon dioxide emissions and 48,107 fewer barrels of oil consumed over the life of the system.

### Project Summary

Annual Electricity Production: **962,140 kWh**

**Location:** Sand Island, Oahu  
**System Size:** 60 kW Roof Mounted  
**Completed:** October, 2010

**System Description:**

- 2,616 Trina 230 W Modules
- 2,636 kWh of Electricity Daily
- 600 kW System Size
- Professional Solar RoofTrac
- Sunetric PV Energy Monitoring System
- 10 – Year Installation Warranty

**Benefits:** The energy saved with this PV system in one year is equivalent following greenhouse gas reductions:

- Annual greenhouse gas emissions equivalent of taking 8 vehicles off of the road for 25 years
- CO<sub>2</sub> emissions from 1,064 barrels of oil consumed
- Offsets nearly 300 lbs of particulates that cause asthma
- Carbon sequestered annually by 12 acres of forest preserved from deforestation
- Offsets 4,385 lbs of SO<sub>2</sub> emissions that cause acid rain
- Greenhouse gas emissions from driving almost 2.5 million miles in a car

Value of Annual Electricity Production: **\$197,224<sup>1</sup>**

<sup>1</sup> Approximation based on an average per kWh price of \$0.2546. Average rate based on Hawaiian Electric Company's Effective Rates Summary for Hawaiian Electric Co., Maui Electric Co. and Hawaii Electric Light Co. published February 2010. [http://www.heco.com/lvcmcontent/StaticFiles/FileScan/PDF/EnergyServices/Call\\_Tariffs/HECOEFFRATESFEB10.pdf](http://www.heco.com/lvcmcontent/StaticFiles/FileScan/PDF/EnergyServices/Call_Tariffs/HECOEFFRATESFEB10.pdf)

<sup>2</sup> 5.5MW (39.76%) of 12.576MW total Net Metered Systems as reported by Hawaiian Electric Co., Maui Electric Co. and Hawaii Electric Light Co. in the **Net Energy Metering Status Report** filed with the Public Utilities Commission on January 26, 2010.