

## P-R Farms Powers 50% of its Facility with SunPower



**With the goal of helping to reduce air pollution in California's Central Valley, an area that suffers from large amounts of pollution due to industrial activities and regional weather patterns, Pat Ricchiuti, owner of P-R Farms, decided to install a large-scale SunPower solar electric system atop its packing facility.**

This facility processes about 1.5 million boxes of fruit each year. The deployment, which covers 98,000 square feet and provides 50% of the facility's electricity, is one of the largest in the nation.

"Using solar energy to power our operations is consistent with our sustainability ethic and creative approach to managing our operations," said Ricchiuti.

### PROJECT OVERVIEW

Location: Clovis, CA

Completed: July, 2005

Installation Type: Commercial Roof

System Size: 1,131 kW

PV surface area: 98,100 square feet

Number of Panels: 7,744

Products: SunPower PowerGuard®  
Solar Electric System

### BENEFITS

- Powers 50% of P-R Farm's packing facility
- Reduces energy and operating costs
- Will reduce CO<sub>2</sub> emissions by 10,000 tons over 30 years, which is equivalent to planting 2,800 acres of trees or not driving 25 million miles on California roadways

***“Solar electricity is the right thing to do—for the environment, the community, and for my business.”***

Pat Ricchiuti  
Owner, P-R Farms

### **INNOVATIVE SOLAR ROOF SYSTEM GENERATES HIGH ENERGY OUTPUT**

The SunPower PowerGuard solar electric system is a lightweight building-integrated assembly installed over the existing roof. It is made up of 7,744 solar panels and is designed to provide both power for the facility and added insulation and protection for the roof. The PowerGuard roof tiles fit together with interlocking tongue-and-groove side surfaces that enable them to resist wind uplift without roof penetration. Each module has a maximum rated output of 190 watts.



### **P-R FARMS MAXIMIZES USE OF SOLAR, PROTECTS ROOF**

As a farmer, Ricchiuti already considers himself one of the biggest users of solar energy because of the crops he grows. Solar provides a good option to alleviate peak demand power shortages and help reduce costs associated with peak-time electricity purchases from the utility grid. As a result of the company's investment in clean solar power, P-R Farms will save substantially on electricity and operating costs and can also reduce heating and cooling costs because of the added thermal insulation provided by the PowerGuard rooftop system.

### **ENERGY EFFICIENCY SUPPORT ENVIRONMENTAL INITIATIVES**

The SunPower PowerGuard rooftop solar electric system at P-R farms helps the environment by reducing harmful emissions, such as nitrogen oxide, sulfur dioxide and carbon dioxide—all major contributors to smog, acid rain and global warming. Over a period of 30 years, the system will reduce CO<sub>2</sub> emissions by 10,000 tons, which is equivalent to planting 2,800 acres of trees or not driving 25 million miles on California's roadways.

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