



When it came to Solar, Carriere & Sons chose Premier Power

Background

In December 2007 Carriere & Sons, a division of Borges of California, took ownership of a Premier Power PV solar power system for their Orland, California site. Carriere & Sons owns and operates hundreds of acres of walnut trees and a very modern walnut drying facility.

They are also in partnership with Borges of California, which is owned by Borges of Spain. Borges is the world's leading walnut operator and has forty eight companies in its group devoted to the production and marketing of oils, dried fruits and nuts.

Bill Carriere, company president, had three ideas in mind concerning the acquisition of a PV solar system. He recognized the financial benefits of reducing his dependence on the utility company and its rapidly increasing rates.

Project Overview

Location Orland, CA
 System Completion December, 2007
 System Type Self ballasted Roof Mount
 Total System Size 270kW-DC

System Configuration

PV modules used 1298 Sharp 208W modules
 Inverters 2 – 100kW Xantrex Inverters
 14 – 5kW Fronius Inverters
 System Tilt 20°

Performance *

Estimated annual production 442,000 kWh
 Total kWh Usage reduced 70% of 2007 usage

Environmental benefits, annually:†

Greenhouse gases reduction (CO₂) 693,954 lbs
 Gasoline not consumed 35,728 gallons
 Oil not consumed 732 barrels
 Coal not burned 1.6 railcars
 Forest preserved from deforestation 2.2 acres

Sources:
 * PV Watt Solar Energy Calculator (<http://www.pvwatts.org/>)
 † U.S. Environmental Protection Agency
 (<http://www.epa.gov/cleanenergy/energy-resources/calculator.html>)

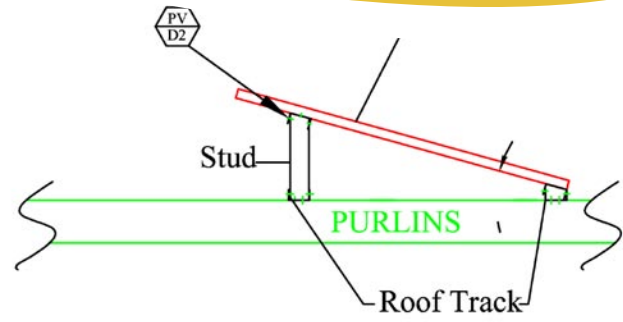
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Bill Carriere understood the benefits of green marketing and the positive effect it would have on his operations. Lastly he felt, as an agricultural businessman and steward of the land he relied on for his livelihood, that it was simply the right thing to do. He recognized that the generation of electricity is the number one source of toxic air pollution in the United States and most generator plants burn coal which pumps millions of tons of greenhouse gas toxins into the air.



Scope of Work

The system was installed on two major surfaces maximizing the roof space of the sheller and bleacher buildings, attached as fixed roof racking systems. These arrays supply up to 70% of the facilities' energy usage.



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