

COMMERCIAL SOLAR POWER CASE STUDY

Valley Wide Beverage Company - Cold Storage Facility, Fresno, CA



Solar Power System Summary

Completed March 2010 - Valley Wide Beverage Company in Fresno, CA.

The 381KW solar power system will eliminate approximately 100% of the estimated usage from the facility meter. The system is estimated to produce approximately 530,000 kwh of clean, green, renewable electricity from a single solar power array that holds approximately 30,000 sq ft of solar panels. The electricity produced from the system eliminates the production of similar amounts of fossil fuel electricity that would normally be produced with a by-product of greenhouse gases such as 720,000 lbs of CO2 and 231 lbs of deadly NOx. This is also similar to removing 73 full sized automobiles from the road and planting 102 acres of trees.

This system consists of 1905 Suntech 200 watt solar panels mounted on a low profile mounting system on the buildings south facing roof. When the sun is shining the panels produce DC electricity, similar to a car battery but much larger. That electricity is fed through an new dedicated electrical system into the Satcon 375KW inverter located in the building's environmentally controlled electrical room where it converts the DC electricity into AC electricity at the same voltage as the buildings electrical system. From there the electricity is fed into the building's main electrical switchboard where it is used instantaneously by the building or sold back to the utility company for a credit.

The system will save the owner approximately \$90,000 annually, and with the generous rebates, grants and tax incentives will pay for itself in less than 6 years when considering the typical average energy cost increase of 6.7% per year. An additional foam roof coating was applied over the existing foam to seal and insulate any penetrations in the roof. The project was designed, developed, and closely managed by Sunterra Solar Inc, along with the supply of materials. The customer also performed energy efficient lighting and HVAC upgrades

Sunterra Solar Background

Sunterra is a premier Northern CA solar power contractor with a primary focus on delivering turn-key commercial grid-tied solar power plants using a more direct and efficient business model. Sunterra Solar Inc was founded by solar industry veteran Chris Bunas after approximately a decade of experience developing grid-tied commercial solar power projects at two other companies. Mr. Bunas has personally designed, sold and managed construction of many megawatts of well known California solar plants such as Paramount Farms 1.1MW solar plant, Cline Cellars Winery 412KW solar power plant, Merryvale Vineyards – Starmont 277KW solar power plant, and many other great solar installations throughout the state.

Mr. Bunas is a proud military veteran of the US Marines during Operation Desert Storm. Mr. Bunas brings all of the leadership experience and core values, like loyalty, honesty and integrity, along with attention to detail and "Outside the Box" can-do attitude taken from the military into Sunterra's business practices used today.

QUICK SYSTEM FACTS

System Size:	381KW
Panels:	Sharp 200 w
Inverter/s:	Satcon 375 w
System Type:	Roof mount
Annual KWH:	530,000
Annual Savings:	\$90,000



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