

Wine Industry Case Study



Project Profile

Wine Country Shipping and Wine Country Cellars have gone green — the leading shipper and wine storage facilities are now powered by the sun. **SolarCraft** completed the design and installation of a 89.7 kW solar electric system at their facility to help off-set the high utility bills and power usage. The 25,000 square-foot of temperature controlled warehouse space maintains a constant 58 degrees and is now run on solar power.

The roof-mounted solar system utilizes 390 Centrosolar 230 watt panels and spans 6,831 square feet, helping to insulate and shade the building. Additional energy is saved by the added insulation, reducing the building's heating and cooling load. Each panel is controlled by an individual micro-

inverter manufactured by Enphase Energy of Petaluma, CA. Unlike more conventional solar electric systems, the micro-inverters will allow the rest of the solar modules to produce at full capacity no matter how many panels are soiled or partially shaded. Micro-inverters greatly increase the overall system efficiency.

The system's photovoltaic panels generate approximately 119,791 kilowatt hours of energy annually, providing over 80% of Wine Country Shipping and Wine Country Cellar's electric needs with clean, renewable energy. The solar power produced each day is enough to power 45 average homes and spares the air nearly 79 tons of harmful greenhouse gases annually. Over the next 30 years, the air pollution saved will be equivalent to eliminating over 5.5 million miles of driving.



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Specifications

System Size	89.7 kW DC 76.1 kW AC
Location	Windsor, CA
Solar Panel	(390) CentroSolar 230 W
Inverter	(390) Enphase Energy M190
Mounting System	ProSolar
Estimated Annual kWh	119,791
Cumulative Cash Positive	5-6 Years

Customer Profile

Wine Country Shipping and Wine Country Cellars provide shipping and storage services for over 150 wineries, helping with Tasting Room orders, Wine Clubs, Wine Writer shipments and Seasonal Mail Order Releases. With 25,000 square feet of temperature controlled warehouse space in two separate buildings in Windsor, Wine Country Shipping and Wine Country Cellars provides a full range of shipping and storage options for tasting rooms, retail outlets and hotels, as well as direct to consumer wine shipping and personal wine storage.

About SolarCraft

SolarCraft is one of the most experienced solar energy contractors in California. For more than 27 years this certified Green Business has been providing Solar Electric, Solar Pool Heating and Solar Hot Water services including consulting, design, installation, financing, monitoring and maintenance. **SolarCraft** is a full-service solar contractor, employing licensed and certified solar installers who are experts in their field. Since 1984 **SolarCraft** has installed more than 4,500 solar energy systems in California with over 1.3 million square feet of solar collector surface area, saving customers more than \$7 million annually and preventing production of more than 28,000 tons of greenhouse gases every year.

"It is a good thing to look at solar as an alternative energy source. I wanted to reduce my dependency on PG&E and it is an environmentally good thing to do. It made sense economically and environmentally. It's the wave of the future."

Dan Laskoski
 Owner