

Winery Case Study



Project Profile

Goldeneye Winery's 32.4 kW solar electric system in Philo was both designed and installed by **SolarCraft**. The winery, in the heart of Mendocino's Andersen Valley, is now powered by the sun.

The solar electric system at Goldeneye consists of 144 SunPower 225 watt solar panels that will power Goldeneye's winemaking operations with renewable, green energy. The roof-mounted system spans 2,100 square feet and is expected to generate 49,460 kilowatt hours annually. The solar panels provide clean electricity

while insulating and protecting the roof. The added insulation saves energy by reducing the building's heating and cooling load.

The new system will enable Goldeneye Winery to generate enough clean electricity each day to power over 14 average homes. It will spare the air nearly 25 tons of harmful greenhouse gases annually. Over the next 30 years, the air pollution saved will be equivalent to driving over 1.7 million miles. The system will pay for itself in approximately 6 years.



Specifications

System Size	32.4 kW DC 28.6 kW AC
Location	Philo, CA
Solar Panel 1	(144) SunPower 225 W
Inverter 1	(6) SMA SB 6000US
Mounting System	ProSolar on S-5!
Estimated Annual kWh	49,460
Cumulative Cash Positive	5-6 Years

Customer Profile

Goldeneye was founded in 1996 by Duckhorn Wine Company and is dedicated to crafting Pinot Noir wines in California's acclaimed Anderson Valley winegrowing region. Goldeneye's estate program consists of five estate vineyards, planted to 19 clones on 11 different rootstocks, giving the winery a rich and diverse palette of fruit from which to produce its wines. Duckhorn Wine Company is a collection of small winery estates focused on site-specific wines of distinction. The Duckhorn Wine Company family includes Goldeneye, Duckhorn Vineyards and Paraduxx. Duckhorn Wine Company wines are available throughout the United States and internationally.

About SolarCraft

SolarCraft is one of the most experienced solar energy contractors and retailers in California. For more than 25 years the certified Green Business has been providing Solar Thermal and Solar Electric services including consulting, design, installation, monitoring and maintenance. **SolarCraft** has installed more than 4,300 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.

*"Because Goldeneye is dedicated to crafting world-class Pinot Noir from the Anderson Valley, our relationship with the environment is extremely important to us. As a result, when we set out to design and build a cutting-edge, energy-efficient winery, incorporating solar was a major part of our design criterion. Not only does the array **SolarCraft** installed for us sustainably address our energy usage, it also helps to mitigate our impact on the Earth in a way that reflects our identity, and our commitment to the Anderson Valley."*

**Courtney Dyar, Operations Manager
Duckhorn Wine Company**