

Winery Case Study



Project Profile

Trione Vineyards & Winery's 39.2 kW solar electric system was both designed and installed by **SolarCraft**. The winery's new tasting room and production facility in Geyserville, CA are now powered by the sun.

Trione's new 11,700 square foot facility now supports 210 Sharp 187 watt solar panels. **SolarCraft** utilized Sharp's OnEnergy™ racking system. Its sleek design is engineered to sit low to the roof, improving the visual appearance of the system. The complete installation blends handsomely into the roof, becoming an integrated part of the building. The solar

energy system will provide up to 50% of the winery's annual electrical needs.

The new solar system will enable Trione to generate enough clean electricity each day to power 17 average homes. The new system will spare the air nearly 29 tons of harmful greenhouse gases annually, or 880 tons over the life of the system. Over the next 30 years, the air pollution saved will be equivalent to driving over 2 million miles. This is equivalent to planting over 6 acres of trees. The system will pay for itself in approximately 6 years and will continue to provide free, clean, renewable energy for decades to come.



Specifications

System Size	39 kW DC 33 kW AC
Location	Geyserville, CA
Solar Panel	(210) Sharp 187W
Inverter	(5) SMA SB 7000US
Mounting System	Sharp OnEnergy
Estimated Annual kWh	53,477
Cumulative Cash Positive	5-6 Years

Customer Profile

For 35 harvests, for 35 Septembers, the Trione family has carefully farmed and managed some of the finest grapes in Sonoma County. With painstaking devotion to the land, three generations — Henry Trione, sons Mark and Vic, and Mark's daughter Denise — have developed a reputation for producing premium grapes.

The Old Stone Winery building, the centerpiece of Trione Vineyards & Winery, is one of the oldest winery tasting rooms in the county. Recently seismically retrofitted, records show it has been in operation since 1935.

About SolarCraft

SolarCraft is one of the most experienced solar energy contractors and retailers in California. For more than 24 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.

"Our decision to go solar followed our original plan to combine technology, aesthetics, and good use of materials in the construction of the winery. From a financial standpoint, the decision was easy – we expect the installation to provide 50% of our electrical needs, saving us over \$750,000 over its lifetime. We chose SolarCraft because they are a sound regional firm, and we've seen examples of their work. The installation went smoothly, and it looks terrific. We highly recommend SolarCraft for your solar needs."

John Hamann
Treasurer, Trione Vineyards & Winery