

# Winery Case Study



## Project Profile

The 124 kW solar electric system at Jacuzzi Family Vineyards is comprised of two separate solar energy systems. Each system uses 374 Mitsubishi Electric 165 watt panels and one Satcon 50 kW inverter, for a total system use of 748 solar panels and 2 inverters.

Going solar is part of Jacuzzi Family Vineyard's commitment to environmentally conscious business and sustainable farming practices. Mitsubishi Electric solar panels are the most eco-friendly solar panels available. They are the first to use 100% lead-free solder in their solar panels

The system is 124 kW DC power and is CEC rated at 103 kW AC

power. The solar electric system will produce an estimated 185,130 kWh annually, not including any additional production from the tracking array which could potentially add an additional 37,026 kWh annually, for a total of 222,156 kWh.

The new solar energy system generates enough clean electricity each day to power 82 average homes. The new system will spare the air nearly 91 tons of harmful greenhouse gases annually, or 2,726 tons over the life of the system. Over the next 30 years, the air pollution saved will be equivalent to driving over 6.3 million miles. This is equivalent to planting over 18 acres of trees.

*profile continues on reverse*



## Specifications

<b>System Size</b>	124 kW
<b>Location</b>	Sonoma, CA
<b>Solar Panel</b>	748 Mitsubishi -165 W
<b>Inverters</b>	(2) Satcon 50 kW
<b>Mounting System</b>	Fixed ground-mount Fixed pole-mount Single-axis tracker
<b>PTC Rating</b>	103 kW AC
<b>Estimated Annual kWh</b>	222,156
<b>Cumulative Cash Positive</b>	5-6 Years

## Customer Profile

The beautiful 18,000-square-foot, rustic-Italian stone structure at Jacuzzi Family Vineyards was inspired by the Jacuzzi family home in Udine, Italy. The winery sits on 190 acres in the Carneros region of Sonoma at Arnold Drive across from Cline Cellars.

The winery honors the family, Italian immigrants, who came to America in the early 1900s. Owned and operated by descendants of the Jacuzzi family of well pump and spa fame, the winery produces 18 different wines under the Jacuzzi Family labels.

## 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 commitment to sustainable business practices is extremely important to us and it's a great feeling to know that our winery is being powered by solar energy. Overall, I am impressed with how painless the process was from start to finish."*

**Fred Cline**  
Jacuzzi Family Vineyards