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## WILLIAMS SELYEM WINERY CASE STUDY



**BACKGROUND:** Proprietors Kathe and John Dyson decided to create a new, state-of-the-art winemaking facility on the estate grounds of the original Williams Selyem winery. The new 28,000 sq.ft. building would include bottling operations, storage, and a hospitality center. They wanted every aspect of the structure to reflect their respect for the environment and, in that spirit, they decided to include a solar pV system. Not only would this system contribute to the winery’s sustainability profile but it would also be a good business decision in that it significantly reduces energy costs.

### THE CHALLENGE:

One Sun Inc. had to execute the design of the solar system in coordination with the new construction of the Winery. Changes in site and system design took place over a two year period, with One Sun accommodating to ongoing architectural and construction adjustments. A separate structure would be required for the mounting of solar modules, as the architecture of the new structure did not allow for incorporating roof mounted solar modules.

#### Project Overview

Location:	Healdsburg, CA
Completion Date:	September 2010
Size of System:	53 kW
	74,441 kWh/year
PV Surface Area:	5007.6 sq.ft.

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## THE SOLUTION:

One Sun chose the most efficient site and designed a carport substructure to accommodate the solar system. Construction and installation required flexibility and coordination with the winery general contractor and other trades activities as the system execution took place during principal construction of the new winery, over a two year period.



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## THE BENEFITS:

- The system will provide 74,441 kW annually, approximately 50% of the winery's electrical needs.
- Rebates and tax credits paid for part of the total cost.
- The system will reduce the amount of CO<sub>2</sub> emitted into the environment by 74,441 lbs. per year, the equivalent of taking 5 cars off the road, powering 4.5 homes or planting 10 acres of trees.

*"One Sun installed our PV system in the Spring of 2010 and it has been working great since the first day of activation. We also installed a carport structure that the PV system is attached to. Warren and One Sun coordinated the installation into their contract in addition to their own PV work. We had a few delays to our construction schedule and One Sun was very flexible to work with. We would recommend them to other wineries."* Chuck Gangnath, **Williams Selyem Winery**