SOLARPONICS
SOLAR ELECTRIC & WATER HEATING

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No 11 CASE STUDY

Winery / Vineyard	J&J Cellars, Paso Robles, CA
COMMERCIAL / RESIDENTIAL	NAME / LOCATION

CHALLENGE:

J&J Cellars wished to add solar electric as part of their sustainability practices. Roof space played a role in limiting the amount of panels that could be installed at J&J Cellars. Additionally, ground mount racks were not an option, as most all of the property is planted, representing a significant investment.

SOLUTION:

Solarponics used two rooftops to install two systems, one on the roof of the cellar building and the second on the roof of the vineyard workshop, placing the inverters and monitoring in one easily accessible location. Aesthetics of the vineyard property are maintained and no valuable ground space was used. All available roof space was put to work to maximizing savings. Total yearly energy cost savings for both systems exceeds $13,000.

SYSTEM #1	SYSTEM #2
Size: **33.1 kW**	Size: **15.5 kW**
Panels: **144 Canadian Solar 240w**	Panels: **66 SCHÜCO USA PS-09 230w**
Install Type: **roof mount**	Install Type: **roof mount**
Install Date: **September, 2010**	Install Date: **December 2010**
Pre-Solar Energy Bill: **$ 864**	Pre-Solar Energy Bill: **$ 2,178**
Mo. Savings: **$ 760 , $ 9,120 annually**	Mo. Savings: **$ 361, $ 4,332 annually**
Payback: **4.76 years**	Payback: **5.95 years**
Amount of grid energy reduction: **88%**	Amount of grid energy reduction: **17%**
R.O.I: **21%**	R.O.I.: **16.8%**

SUCCESS:

The solar arrays are completely hidden from view yet, the inverters are all located in an easily assessible location allowing winery personnel to monitor and share stats like current energy production, total energy produced and CO2 reductions.