



CASE STUDY
RESIDENTIAL PV SYSTEM
 San Mateo, CA

System Size	4.05 kW DC
Solar Equipment	18 SunPower 225
Est. Production	5,630 kWh/year
Est. CO ² Avoided	6,756 lbs/year
Est. Load Covered	100 %



Sun Light & Power earned the **2009 SunPower Intellegant Award** for this project based on the criteria of **best aesthetics, technical perfection** and **customer satisfaction** for a residential project.

The Project Challenge

The optimal mounting surface for this residence faces the street and the roof surface is Spanish tile which presents installation difficulties. The customer "wanted an installation that would equal or exceed my annual consumption measured in kilowatt hours. The best location for installing the panels was the front roof but I did not want the panels to dominate the house." D.R.

The Sun Light & Power Award Winning Solution

Since aesthetics were paramount, to meet the challenge, Sun Light & Power proposed using the all-black SunPower 225 modules and modified its already proprietary mounting brackets to provide a custom mounting solution that allows the panels to rest just below the raised surface of the Spanish roof tiles. This system is a perfect example of Sun Light & Power's process of carefully listening to each customer's unique needs and concerns resulting in execution of the best possible energy solution.

"The result far exceeds my expectations - with all this their prices were very competitive with the other 4 installer bids." D.R.



➤ **Environmental Benefits**

Every year this system removes the equivalent of one car from the road. It would take an acre of trees to sequester this much CO² from the atmosphere every year.

➤ **Financial Savings**

This system immediately reduced the customer's electricity bill, and moving forward will provide years of free energy and generate thousands of dollars in future savings.

➤ **Customer Profile**

This system demonstrates that the customers' commitment to the environment and desire for economic control could be achieved while maintaining the beauty of his home. The customer was completely satisfied with both the functionality *and* pleasing aesthetics of the system. He was further inspired to decrease his personal energy consumption, which he is avidly tracking, and he is now considering the purchase of an electric car.

➤ **Sun Light & Power Profile**

Passionate people tend to get very good at what they do. With 34 years of experience as a leader and pioneer in the solar industry, Sun Light & Power is dedicated to providing the highest possible design, engineering and installation expertise for solar electric and thermal energy needs and places high value on lasting customer relationships.

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Talk to the Experts