

# Inman Solar House Redwood City, CA



## **Summary and Benefits**

System Size:	7.60 kw STC PV
Annual Production:	10,931 kw
Old Electric Bill:	\$369
New Electric Bill:	\$42
% Power Offset:	65%
% Electric Bill Offset:	89%
IRR over 25 years:	26.2%
Simple Payback:	8 years

## **System Profile**

Modules:	36 SunPower 210 W
Inverter:	SunPower 7000W
Standoffs:	SunPower
Racking:	Uinrac

## **House Profile**

The Inman's have a brand new home in San Mateo County. They were looking to maximize the space they had on their roof with solar. Because of the intricate nature of their roof with many angles, shapes, and directions, the Inman installation was quite complex. They ended up with 5 separate arrays in 5 locations. Three of the five locations had different shading issues that required exacting measurements to give the customer an accurate portrayal of expected output. Had this system been installed after the summer of 2008, they would have been a perfect candidate for micro-inverters. However, they were forced to utilize a single inverter system. An inch or two either way or the system would put out substantially less production. Clean Solar spent hours determining, following up, and measuring to maximize their efficiency.

## **Components Profile**

Single inverter solar systems are put together using electrical strings. Because the system had 5 array locations, Clean Solar had to determine the least intrusive way to run these lines to minimize voltage drop, wiring costs, and system aesthetics. After careful consideration of many options, Clean Solar approved the best wiring diagram for the Inman's.

