

## Rollins Solar House Livermore, CA



### **Summary and Benefits**

System Size:	2.787 CEC-AC
Annual Production:	4727 kWh
Old Electric Bill:	\$263
New Electric Bill:	\$129
Cost Savings (25 years):	\$88,027
% Electric Bill Offset:	51%
IRR over 25 years:	22.9%
Simple Payback:	8 years

### **System Profile**

Modules:	18 Mitsubishi PV-UD-185MF5
Inverter:	Fronius 4000 kW
Racking:	Unirac

### **House Profile**

The homeowner had predetermined which panels and which size system he had wanted to use. The system size was a bit unconventional. Mr. Rollins wanted a system size that would only get him out of the highest tier pricing, leaving him with a substantial electric bill, but a system that would maximize his return on investment. The home run electrical run was quite lengthy- over 100 feet. Clean Solar walked the customer all of his option for the run. After careful consideration and explanation, we decided to have the conduit run occur on the roof line all the way to the other side. There were many obstacles to overcome on this path.

### **Components Profile**

System install was without issues. However, after completion problems arose. After installing, we found the inverter overheating. After 16 hours of troubleshooting, it was determined the inverter company had mis-sized the inverter. We replaced the inverter (at no cost to the homeowner). At the same time, the homeowner decided he wanted to move the inverter. Clean Solar moved the inverter to a different location at cost for the homeowner.

