

System Advisor Model Report

Detailed Photovoltaic
Single Owner

16 DC kW Nameplate
\$1.03/W Installed Cost

35.05, -106.64
UTC -7

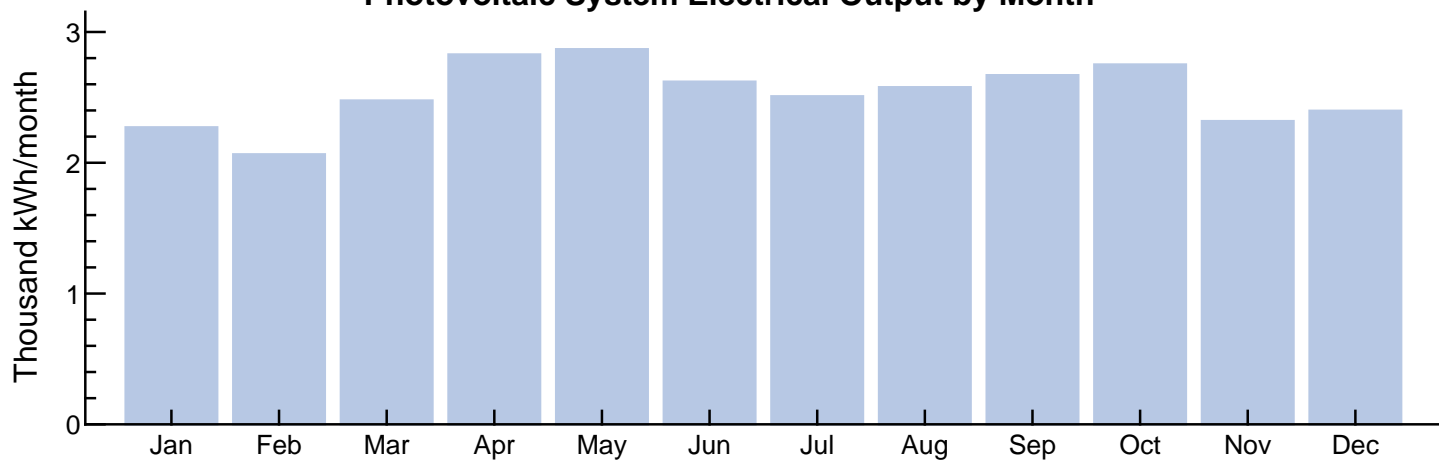
Performance Model			Financial Model	
Modules SANYO ELECTRIC CO LTD OF PANASONIC GROUP VBL Cell material Mono-c-Si Module area 1.67 m ² Module capacity 325.44 DC Watts Quantity 48 Total capacity 15.62 DC kW Total area 80 m ²			Project Costs Total installed cost \$16,052 Salvage value \$0	
Inverters SMA America: STP20000TL-US-10 Unit capacity 20 AC kW Input voltage 380 - 800 VDC DC V Quantity 1 Total capacity 20 AC kW DC to AC Capacity Ratio 0.78 AC losses (%) 1.00			Analysis Parameters Project life 25 years Inflation rate 2.5% Real discount rate 6.4%	
Two subarrays: 1 2 Strings 2 2 Modules per string 12 12 String Voc (DC V) 835.20 835.20 Tilt (deg from horizontal) 35.00 35.00 Azimuth (deg E of N) 180 180 Tracking no no Backtracking - - Self shading yes yes Rotation limit (deg) - - Shading no no Snow no no Soiling yes yes DC losses (%) 4.44 4.44			Financial Targets and Constraints Solution mode Calculate PPA Price Target IRR 11% in Year 20 PPA escalation rate 1%/year	
			Tax and Insurance Rates Federal income tax 21 %/year State income tax 7 %/year Sales tax (% of indirect cost basis) 5% Insurance (% of installed cost) 0.5 %/year Property tax (% of assessed val.) 0 %/year	
			Incentives Federal ITC 26% Depreciation Depreciation allocations defined with no bonus depreciation	
			Results Nominal LCOE 114.1 cents/kWh PPA price (year one) 115.5 cents/kWh Project IRR 11% in Year 20 Project NPV \$30,800	
Performance Adjustments Availability/Curtailment none Degradation none Hourly or custom losses none				
Annual Results (in Year 1) GHI kWh/m ² /day 5.55 5.55 POA kWh/m ² /day 149.00 149.00 Net to inverter 31,470 DC kWh Net to grid 30,340 AC kWh Capacity factor 22.2 Performance ratio 0.82				

Detailed Photovoltaic
Single Owner

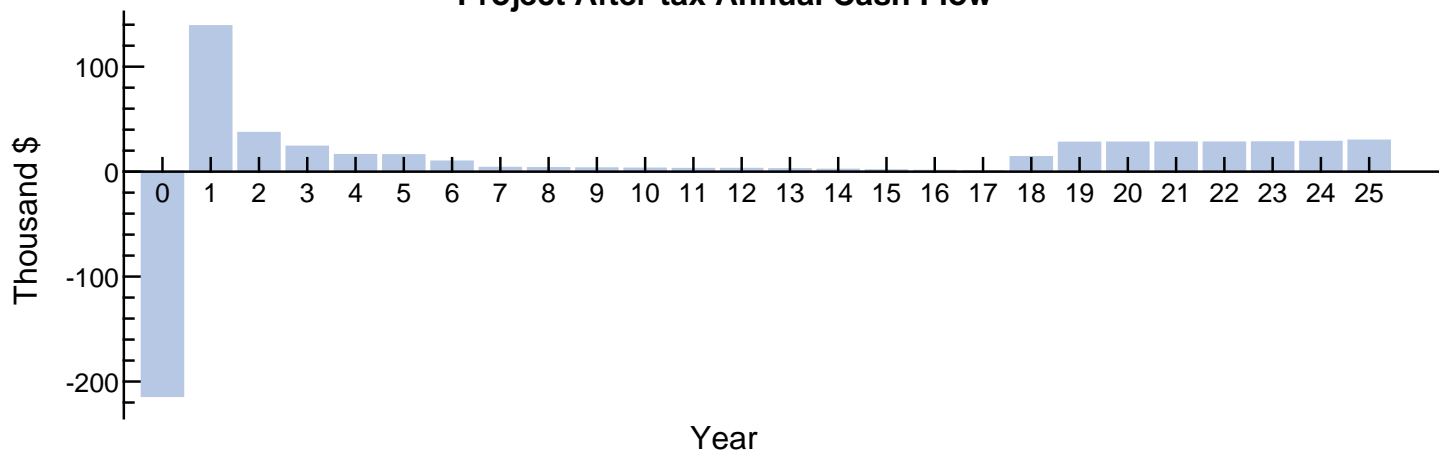
16 DC kW Nameplate
\$1.03/W Installed Cost

35.05, -106.64
UTC -7

Photovoltaic System Electrical Output by Month



Project After-tax Annual Cash Flow



Detailed Photovoltaic
Single Owner

16 DC kW Nameplate
\$1.03/W Installed Cost

35.05, -106.64
UTC -7

