

System Advisor Model Report

Detailed Photovoltaic
Single Owner

54 DC kW Nameplate
\$1.03/W Installed Cost

55.7, 12.1
UTC +1

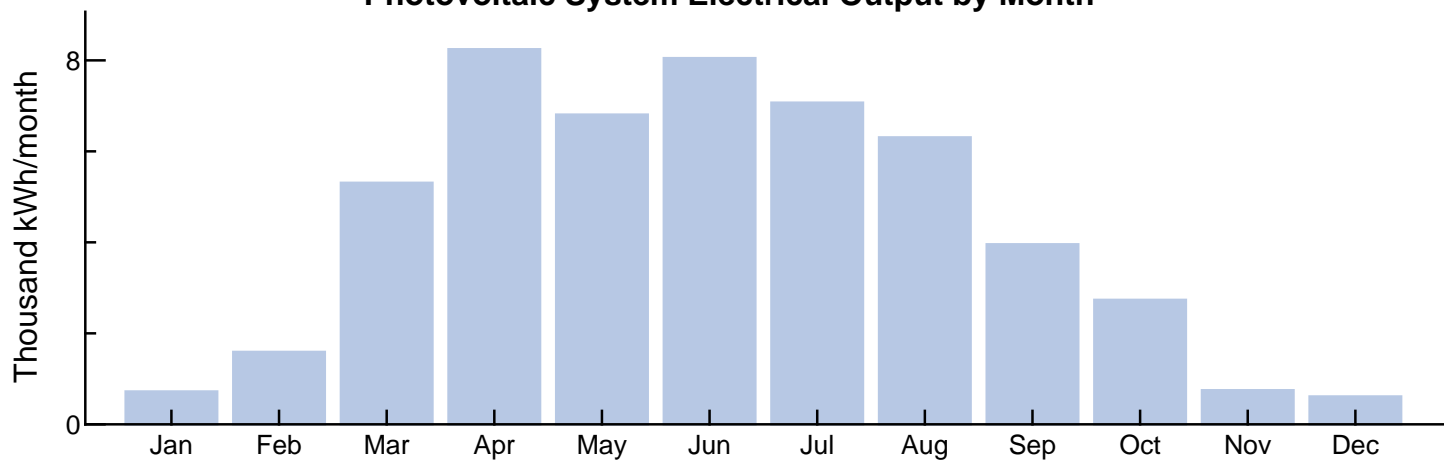
Performance Model			Financial Model	
Modules Trina Solar TSM-305DD05A.05(II) Cell material Mono-c-Si Module area 1.62 m ² Module capacity 305.31 DC Watts Quantity 176 Total capacity 53.73 DC kW Total area 285 m ²			Project Costs Total installed cost \$55,220 Salvage value \$0	
Inverters Custom (Inverter Datasheet Model) Unit capacity 55 AC kW Input voltage 250 DC V Quantity 1 Total capacity 55 AC kW DC to AC Capacity Ratio 0.98 AC losses (%) 1.00			Analysis Parameters Project life 25 years Inflation rate 2.5% Real discount rate 6.4%	
Two subarrays: 1 2 Strings 4 4 Modules per string 22 22 String Voc (DC V) 880.00 880.00 Tilt (deg from horizontal) 25.00 25.00 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	
Performance Adjustments Availability/Curtailment none Degradation none Hourly or custom losses none			Results Nominal LCOE 76.7 cents/kWh PPA price (year one) 77.3 cents/kWh Project IRR 11% in Year 20 Project NPV \$33,400	
Annual Results (in Year 1) GHI kWh/m ² /day 2.96 2.96 POA kWh/m ² /day 77.00 77.00 Net to inverter 56,800 DC kWh Net to grid 52,140 AC kWh Capacity factor 11.1 Performance ratio 0.77				

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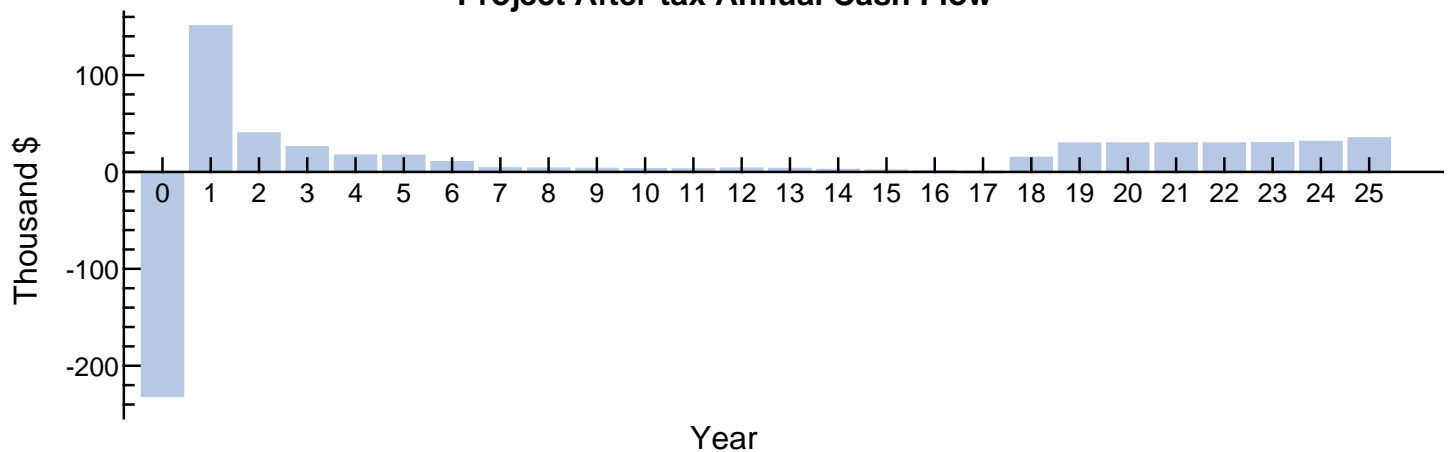
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Photovoltaic System Electrical Output by Month



Project After-tax Annual Cash Flow



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