

System Advisor Model Report

Detailed Photovoltaic
Single Owner

54 DC kW Nameplate
\$1.03/W Installed Cost

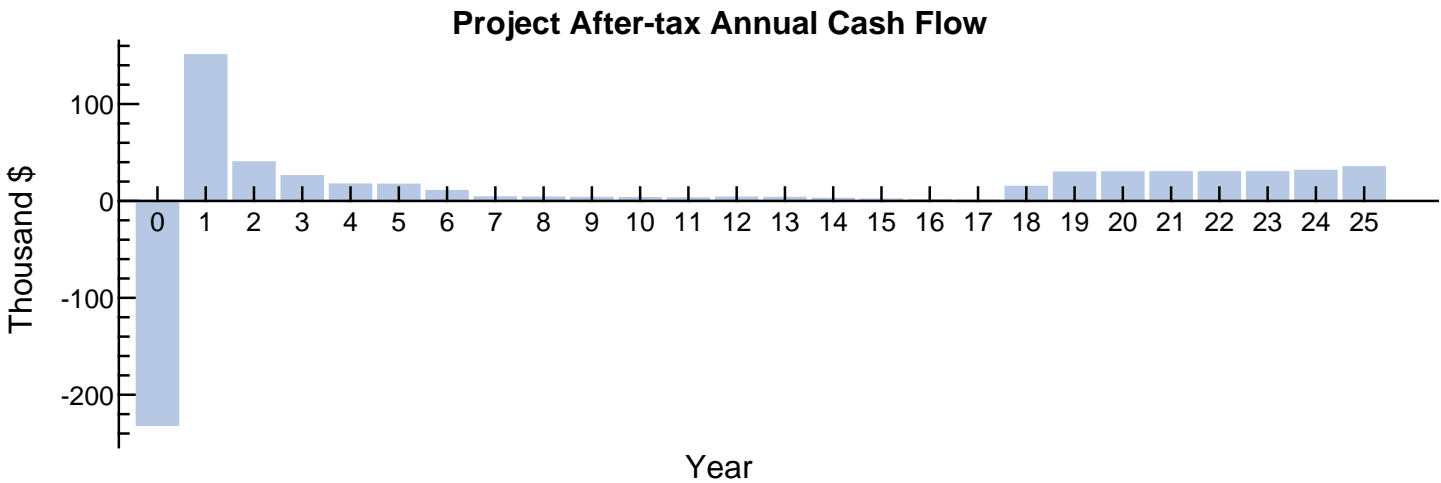
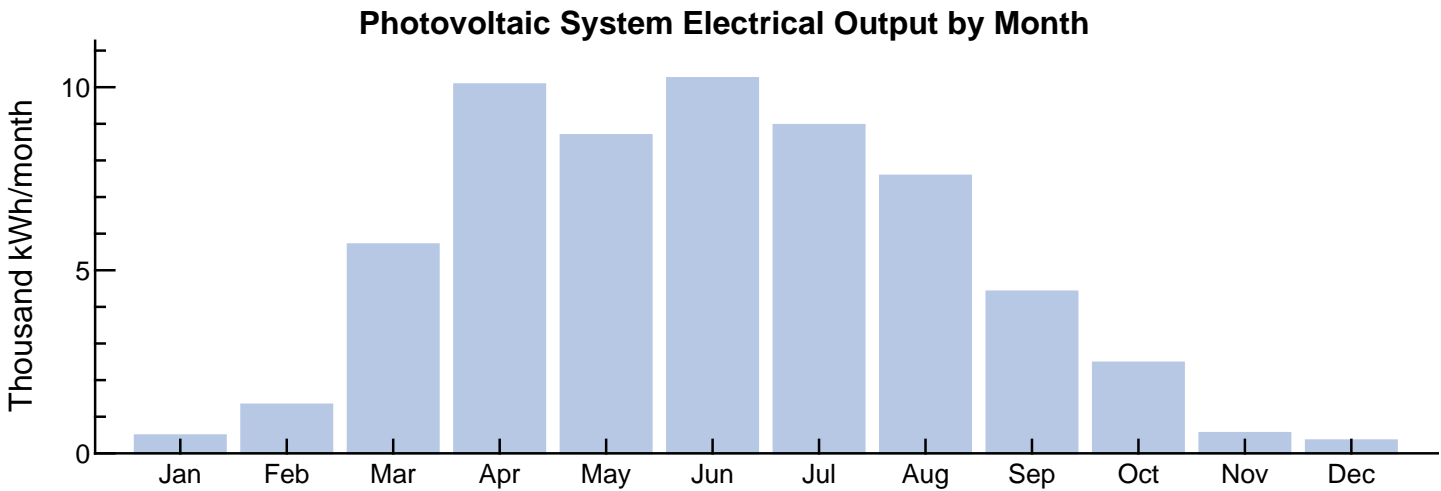
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Performance Model			Financial Model	
Modules Trina Solar TSM-305DD05A.05(II) Cell material Mono-c-Si Module area 1.62 m ² Module capacity 305.31 DC Watts Quantity 176 Total capacity 53.73 DC kW Total area 285 m ²			Project Costs Total installed cost \$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) 0.00 0.00 Azimuth (deg E of N) 180 180 Tracking 1 axis 1 axis Backtracking yes yes Self shading yes yes Rotation limit (deg) 60 45 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 65.7 cents/kWh PPA price (year one) 66.2 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 90.00 89.00 Net to inverter 65,660 DC kWh Net to grid 60,840 AC kWh Capacity factor 12.9 Performance ratio 0.79				

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