

# System Advisor Model Report

Detailed Photovoltaic  
Single Owner

6.5 DC MW Nameplate  
\$0.54/W Installed Cost

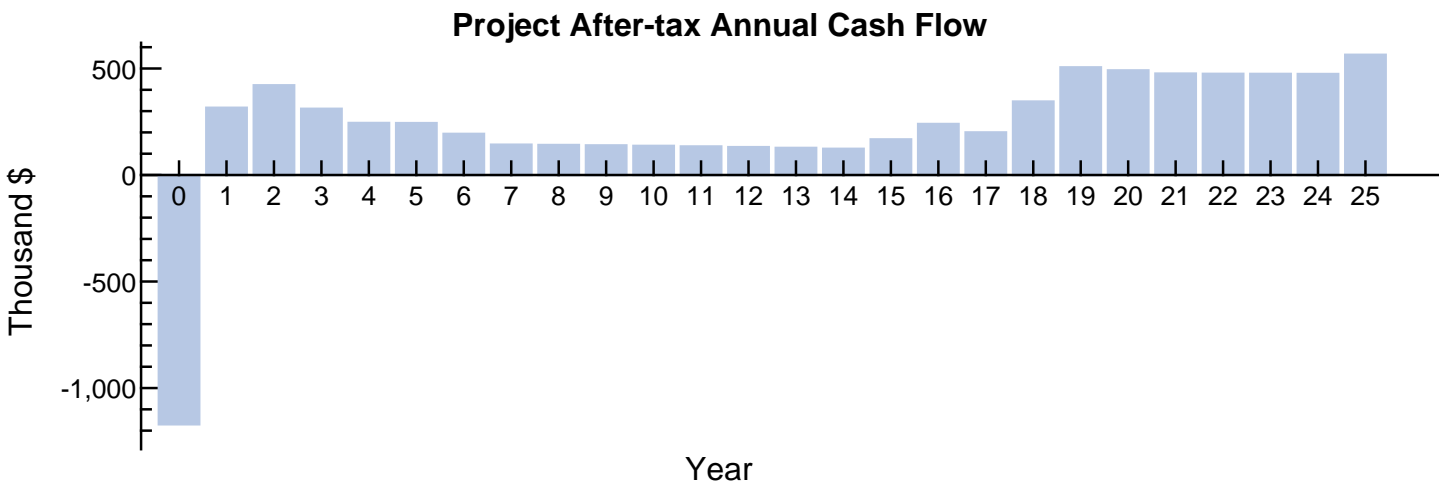
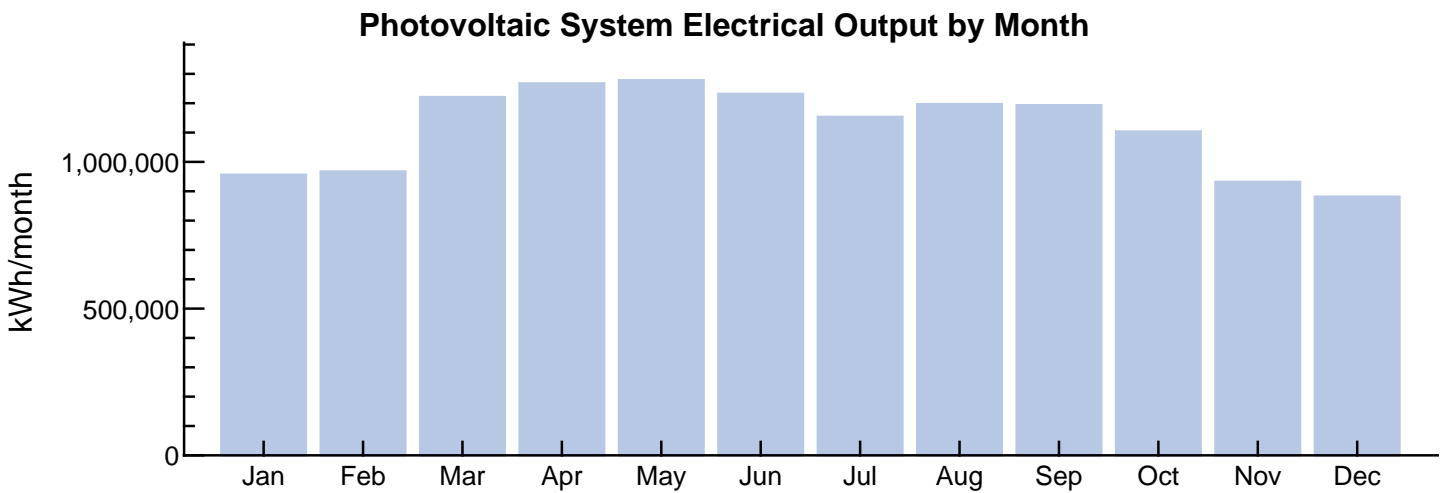
27.45, 71.95 UTC +5.5  
NSRDB

| Performance Model   |  | Financial Model  |  |
|---|--|--|--|
| <b>Modules</b><br>Aptos Solar Technology LLC DNA-144-BF10-530W<br>Cell material Mono-c-Si Bifacial<br>Module area 2.58 m <sup>2</sup><br>Module capacity 530.75 DC Watts<br>Quantity 12,320<br>Total capacity 6.54 DC MW<br>Total area 31,785 m <sup>2</sup>  |  | <b>Project Costs</b><br>Total installed cost \$3,509,218<br>Salvage value \$0  |  |
| <b>Inverters</b><br>Sungrow Power Supply Co - Ltd : SC2500U<br>Unit capacity 2507.19 AC kW<br>MPPT Voltage Range 800 - 1500 VDC<br>Nominal AC Voltage 550.0 VAC<br>Quantity 2<br>Total capacity 5.01 AC MW<br>DC to AC Capacity Ratio 1.30<br>AC losses (%) 0.00  |  | <b>Analysis Parameters</b><br>Project life 25 years<br>Inflation rate 2.5%<br>Real discount rate 6.4%  |  |
| <b>Array</b><br>Strings 440<br>Modules per string 28<br>String Voc (DC V) 1377.60<br>Tilt (deg from horizontal) 0.00<br>Azimuth (deg E of N) 180<br>GCR 0.3<br>Tracking 1 axis<br>Backtracking no<br>Self shading no<br>Rotation limit (deg) 45<br>Shading no<br>Snow no<br>Soiling yes<br>DC losses (%) 3.95 |  | <b>Financial Targets and Constraints</b><br>Solution mode Calculate IRR<br>PPA price (bid price) 5.5 cents/kWh<br>PPA escalation rate 1 %/year   |  |
| <b>Performance Adjustments</b><br>DC avail./curtail. none<br>AC avail./curtail. none<br>Degradation 0.5 %/yr<br>Hourly or custom losses none  |  | <b>Tax and Insurance Rates</b><br>Federal income tax 21 %/year<br>State income tax 7 %/year<br>Sales tax (% of indirect cost basis) 5%<br>Insurance (% of installed cost) 0 %/year<br>Property tax (% of assessed val.) 0 %/year |  |
| <b>Annual Results (in Year 1)</b><br>GHI kWh/m <sup>2</sup> /day 5.63<br>POA kWh/m <sup>2</sup> /day 172.00<br>Net to inverter 13,874,204 DC kWh<br>Net to grid 13,379,929 AC kWh<br>Capacity factor 23.4<br>Performance ratio 0.81   |  | <b>Incentives</b><br>Depreciation Depreciation allocations defined with no bonus depreciation  |  |
|   |  | <b>Results</b><br>Nominal LCOE 4.9 cents/kWh<br>PPA price (year one) 5.5 cents/kWh<br>Project IRR 22.2% in Year 20<br>Project NPV \$1,344,800  |  |

Detailed Photovoltaic  
Single Owner

6.5 DC MW Nameplate  
\$0.54/W Installed Cost

27.45, 71.95  
UTC +5.5



Detailed Photovoltaic  
Single Owner

6.5 DC MW Nameplate  
\$0.54/W Installed Cost

27.45, 71.95  
UTC +5.5

