

# System Advisor Model Report

Detailed Photovoltaic  
Single Owner

6.5 DC MW Nameplate  
\$0.54/W Installed Cost

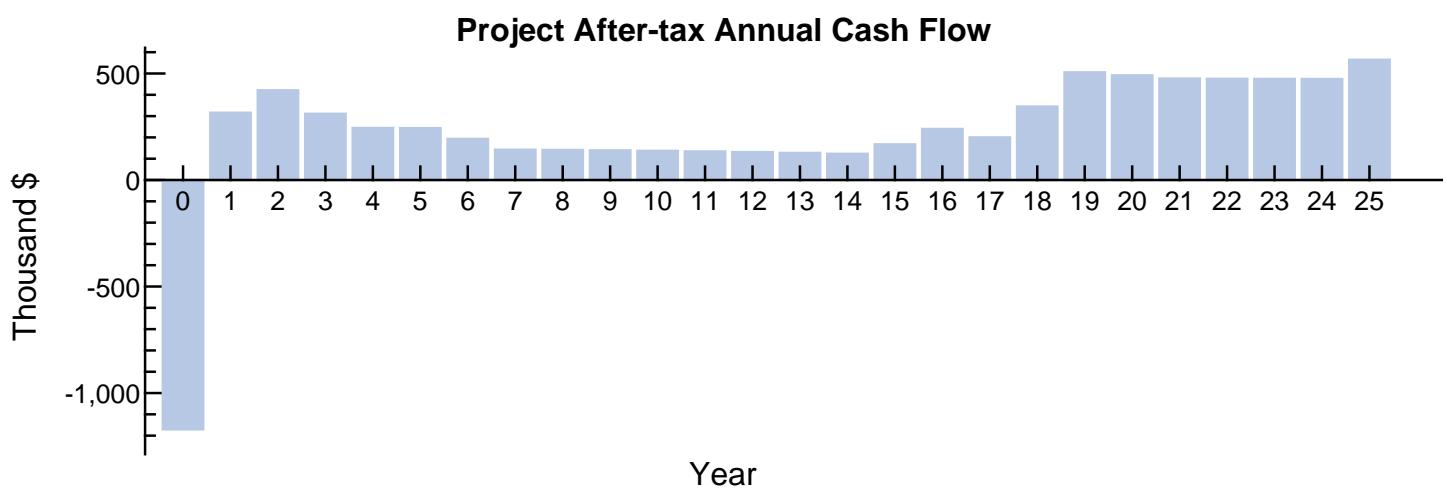
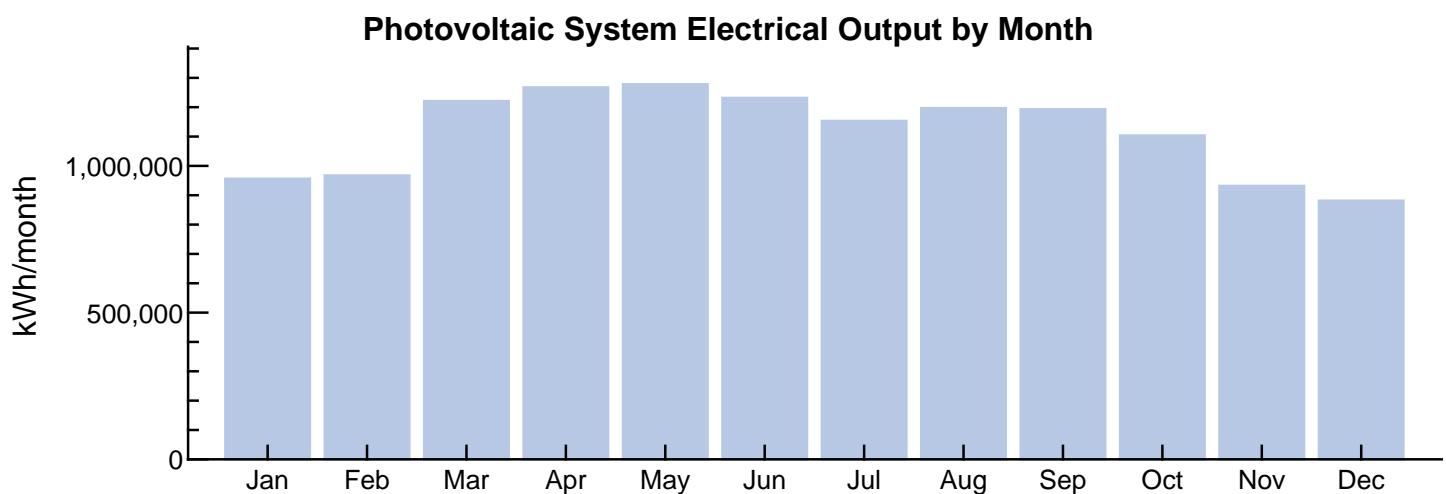
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NSRDB

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

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