

CALIFORNIA STATE SCIENCE FAIR 2009 PROJECT SUMMARY

Name(s)	Project Number
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Project Title Photovoltaic Performance: SunEye vs. Pathfinder	
Objectives/Goals Abstract	
 which of the two different instruments, the SunEye or the Pathfinder, r photovoltaic array performance of a shell panel system consisting of 93 Methods/Materials Materials: A Solmetric SunEye, A Solar Pathfinder, An MX60 Charge A full solar array system consisting of: 6 Shell SQ80 panels, 6 Shell SF Results SunEye first predicted that a total of 227.28 kilowatt hours were going predicted that a total of 209.48 kilowatt hours were going to be produce produced 126.60 kilowatt hours. Our data logging system recorded dail come close to either predicted amounts. Conclusions/Discussion After completing our experiment with two different popular solar instruwe cannot say which instrument was more accurate. Weather is the mai output. Because we conducted our experiment in two of the worst mont did not have enough data to show which instrument was more accurate conclusion Summary Statement	nore accurately predicts the 30 watts? Controller, 75 panels. to be produced. The Pathfinder ed. The Shell panel system actually y kilowatt production but did not ments that predict solar outputs, in factor when recording daily solar ths of the year (weather-wise), we . We would need to take data for h.
Which instrument, the SunEye or the Pathfinder, more accurately predi performance?	cts photovoltaic array
Help Received Father helped me set up the instruments	