



CALIFORNIA STATE SCIENCE FAIR 2015 PROJECT SUMMARY

Name(s) Max S. Kunes	Project Number J0209
Project Title Here Comes the Sun	
<div>Objectives/Goals Every year, the world gets more polluted by energy production. The purpose of this project is to see what is the difference between the energy production rates of solar-following solar panels and static ones.</div> <div>Methods/Materials Microcontroller Solar Panel 360 Degree Servo 180 Degree Servo Assorted wiring C/C#/C++ knowledge</div> <div>Results A solar-tracking panel is more efficient than a static panel. I have found, that a static solar panel does not give a consistent voltage throughout the day. For example, from 6-11 AM the voltage was fairly low and slowly rising. On the other hand, the solar-tracking panel had consistent results throughout the day. From 7 AM till about 4 PM the voltage was hovering around 5.5-6.1 volts. Overall, the static solar panel produces much less energy throughout the day than the solar-tracking one did.</div> <div>Conclusions/Discussion My hypothesis was correct; a solar-tracking panel is more efficient than a static panel. I have found, that a static solar panel does not give a consistent voltage throughout the day. For example, from 6-11 AM the voltage was fairly low and slowly rising. On the other hand, the solar-tracking panel had consistent results throughout the day. From 7 AM till about 4 PM the voltage was hovering around 5.5-6.1 volts. Overall, the static solar panel produces much less energy throughout the day than the solar-tracking one did.</div>	
Summary Statement I compared the difference between a solar tracking panel and a static solar panel.	
Help Received No one.	