



**CALIFORNIA SCIENCE & ENGINEERING FAIR
2018 PROJECT SUMMARY**

Name(s) Alexa G. Rodriguez	Project Number 38826
Project Title How Can I Charge or Power My Cell Phone without an Outlet?	
<p style="text-align: center;">Abstract</p> <p>Objectives/Goals I'm camping and there is no electricity or an outlet. I need to charge my phone but I don't have an outlet so the objective of my project is, "How Can I Charge or Power my Cellphone Without an Outlet?"</p> <p>Methods/Materials I drilled ten solar panels into a board and connected the wires all around. And once I got to the end I connected that long wire to the USB charger. And drilled in a on and off switch to board and also connected it to the USB charger with a Soldering Iron. And attach triangles to the side so it can stand up.</p> <p>Results It was successful. It charged my phone outside and it charged 14% in half an hour.</p> <p>Conclusions/Discussion I learned that I can save energy through solar panels and create electricity. A way that I can make this better was by adding more solar panel, to produce more electricity.</p>	
Summary Statement My project is about making solar energy and using that energy to charge my phone.	
Help Received My dad helped me drill the holes and used the Soldering Iron.	