

CALIFORNIA STATE SCIENCE FAIR 2017 PROJECT SUMMARY

Name(s)	Project Number
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Project Title	
Wireless Transmission of Electricity	
Abstroat	
Objectives/Goals	
The objective of this project is to design an effective way to transmit useful electricity wirelessly. Methods/Materials	
A solid-state wireless electricity transmitter (Tesla coil) with input of approximately 30 volts. A smaller	
receiver coil with a full bridge rectifier to produce useful DC, and a few florescent light bulbs. Improve	
Results	
Six different versions of the design had varying levels of success. The final and most efficient was a 30	
volt power transistor driven transmitter with up to a meter in range.	
Repeated trials proved that higher voltages yield greater power and distance, but as a disadvantage, a	
proportionally increasing amount of heat. It is concluded that the greater the performance becomes.	
Summary Statement	
We showed that a low voltage Tesla Coil is an effective way to transmit long range wireless power.	
Help Received	
NA	