

CALIFORNIA STATE SCIENCE FAIR 2002 PROJECT SUMMARY

Name(s)	Project Number
Louise Qu	
	/ \
	22797
Project Title	
Save Electricity and the Environment	
Abstract	
Objectives/Goals	
The objective of my project was to find out how much electricity could be save 60-watt light bulb to a 13-watt energy-saving bulb with a similar light output ar	d by switching from a d what would be the
environmental benefit of this. I think that the savings in my household may not	be significant but if I were
to extend my results to Ventura County, California, or the U.S., the results wou significant.	the much more
Methods/Materials	/
8 Soft White light bulbs, 60-watt incandescent and 8 Eco-bulb Electronic Energy fluorescent were used in the experiment. The 60-watt bulbs were placed into eight	gy Saving bulbs, 13-watt
for 2 hours. The same was done for the 13-watt bulbs. The reading on the electron	ncal meter was recorded
before and after each test. On the second and third tests, the lights were turned of Results	
The results showed consistently that the fluorescent by b saved show 75% of el	ectricity used by an
equivalent incandescent bulb. On average, the fluorescent bulb saled about 0.05 kilowatt-hours, per hour per bulb. The environmental benefit and electricity savings are very significant when the results are	
extended to Ventura County, California, and the United States	
Conclusions/Discussion My conclusion is that I may not save a whole lot of electricity on a micro-scale	(single household) but if I
were to extend my results, the amount saved would be a lot more significant on	a macro-scale.(county,
state, and country wide)	
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Summary Statement	
My project is about how much electricity can be saved by switching to fluoresc	ent (energy saving) bulbs
and what the environmental benefit can be resulted from this.	on (energy swing) cores
Help Received	
My dad took pictures with his digital camera.	