

CALIFORNIA STATE SCIENCE FAIR 2012 PROJECT SUMMARY

Name(s) Azad Doulat		Project Number J0910
Project Title The Effects of Voltage	e on the Efficiency of a l	Hydrogen Cell
	Abstract	
efficiency of that cell. Methods/Materials The cell was hooked up to a power by multimeters, until enough unit with a wattmeter with regards to or power, and efficiency. Results Increasing the input voltage increase lessening slowly as the indramatically decrease when volta Conclusions/Discussion Manipulating the voltage in a hydrody production, but increasing input v energy output. As such, careful m efficient, as long as it is managed	er supply, and the input voltage a s of hydrogen had been produced output voltage and amperage, and ased the overall efficiency of the nput voltage approached maximu ge reached 95% of the maximun lrogen fuel cell can allow for far voltage too much can damage the anagement of voltage can make carefully.	and amperage was carefully monitored d. The same measurements were taken d the data was calculated to find energy, e hydrogen cell/electrolyzer, with the um, eventually causing the efficiency to n possible input for the cell. more efficient hydrogen and energy e cell's efficiency, resulting in a drop in an already clean fuel far more energy
Summary Statement Can hydrogen fuel cells be made	more efficient by manipulating i	input voltage and amperage?
Help Received Parents helped format display; Re Shirajian and J. Nuttall	esources from school laboratory;	Theoretical and tutoring help from J.