

CALIFORNIA STATE SCIENCE FAIR 2009 PROJECT SUMMARY

Name(s)	Project Number
William M. Osman	00040
	S0216
Project Title	
People Power	
Objectives/Goals Abstract	
To develop and build a version of the Sirling Engine that converts waste heat, s	
converts it into mechanical energy, and then convert the mechanical energy into Methods/Materials	electricity.
Creating the engine will involve the use of CNC machines and other common h	ousehold items.
Results	1.66
The machine worked as intended, but not off human heat. Since the device uses two different temperatures reaching equilibrium, and has several inefficiencies, the two temperatures need to be more	
extreme than the heat from a human and room temperature.	
Conclusions/Discussion The Stirling engine is a very practical device that can turn most heat sources int	o usable energy Any two
sources of heat and cold will work to power the engine as long as they are far en	
Summary Statement	
Turning waste heat into a usable energy source.	
Help Received	
Kit Jones taught me how to use a CNC water-jet cutter.	