

SCF Solar Thermal Demonstration Project **(7/27/07)**

SCF is requesting additional funding to support installation of 4 data logger devices, training on installation and data retrieval, and data collection activities. CSD determined that the use of the data logger device would add value to the project as the devices will measure the thermal solar system usage in comparison to the traditional system, which will provide a better insight as to the effectiveness of the system.

The estimated funding to support the installation of 4 data logger devices, training, and data activities.

The data logger system to be used for this project will capture data directly related to the use of the solar thermal system. Two water meters will be used. One unit will measure water moving through the heating system in general. The other will isolate water coming from the traditional heating source. A data logger, attached to the second unit, will determine when, and for how long, the traditional, back-up heating source is used due to the solar system's inability to supply hot water. The data will show the proportion of total water used in relation to the water heated by the traditional source. The water heated by solar will be the difference between the two. The outcome will be a proportional analysis of total water heated and solar water heated. Additionally, total heated water will be measured against the total water used throughout the residence. Each of these discreet measurements will isolate the actual costs of heating water. These numbers will be compared to corresponding months from the previous year to determine how much saving is achieved.