

Southern California Forum: 2006 Solar PVEA Discretionary Funds

A collaboration of agencies to train and install solar hot water panels on weatherized houses.

1. Scope of Work

The agencies reflect a diverse section of rural, urban climactic zones.

- 1-4 Los Angeles LIHEAP Agencies 4-8 units, zones 6,8,9,14
- 5 Kings County 1-2 units, zone 13
- 6 San Mateo County 1-2 units, zone 3
- 7 Humboldt County 1-2 units, zones 1,2,16
- 8 Sacramento/Yuba/Sutter County 1-2 units, zone 11,12,16
- 9 Telacu 1-2 units Zone 6,8,9,10
- 10 San Bernardino 1-2 units, zone 10,14,15,16
- 11 Santa Cruz/Monterey 1-2 units, zone 3,4

There will be from 11-22 units installed in a wide variety of climate zones.

Included in the study would be the cost of the materials and labor for installation in each area. The evaluation report will include a summary of the costs, successes, barriers and the clients' gas/electrical usage/energy costs following the installations. The report will also provide a snapshot comparison of the costs by locale/climate zone/final client energy costs results/project costs including the actual cost of the materials and labor by contractor.

The energy savings will be reflected by the climate zone, the household size, target groups (Vulnerable Populations), and fuel type.

The estimated life expectancy of the technology according to industry standards is from 15-20 years.

2. Target Population

- All households will be eligible under the LIHEAP guidelines.
- The homes will be weatherized either with this project or previously weatherized with LIHEAP, DOE or Utility funding.
- The households will be a mix of owner occupied and rental units.
- Within dollar limits, single family, small multi unit or mobile if feasible.
- With the limited funding, there may be a family size limitation. Larger units will cost more and be prohibitive. The ideal size may be from 1-4 person household.
- Location of household will be determined by the climate zone designated to each sub-contractor.

3. Performance Goals

-Training will allow a hands-on for the agency crew to understand the cost, installation, choosing housing units, savings and benefit of the solar unit. The training also is to participate in the data collection and overall concept of this project. The training is also an opportunity to expand the agencies capabilities and to provide a more comprehensive service to the communities we serve and to consider the environmental benefits.

-The study will show the cost in several climate zones. We will capture the cost to provide this service in the diverse areas and show the possible savings to the client. The other benefit we will show is the societal benefit in the use of clean energy that will include the education of the household.

-The outcomes will be measured in the education of the households. The energy outcomes will be monitored by the utility usage collected over the year of and following the installation. The societal benefits will be included in the data as client changes both in energy usage, environmental understanding and existing statistical data.

-Indicators on energy use will be actual usage. The clients will have to be heavily screened to participate in this project. They must provide their bills or ask the utility to provide this data for this use.

-The data will be organized by climate zones. The cost, client education (societal benefits) and energy savings. The data will be captured as the agency completes each task and reported annually. The first year we hope to have the cost data reported. The second year the energy savings, and societal benefits will be reported in our final report.

-The installation criteria and actual installation standards will be documented. This data may be used to construct standards for this measure.

4. Client Education

-The local agencies will have control over the kind of educational methods they will provide and use. The collection of what and how they are delivered will be studied and reported. With a variety of approaches, within the parameters and outcomes needed, will provide this study with a range of possibilities to be used to show the best possible methods.

5. Leveraging

- LIHEAP/DOE Weatherization/ECIP
 - Each unit will be weatherized
 - Utility Weatherization/Appliance
 - Possible use of utility program for weatherization