

**PY 2002 - 2003 CPUC Energy Efficiency Programs
Monthly Reports Narrative Template**

Program Implementer Name:	Alliance to Save Energy
Program Title:	Green School, Green Communities
Program Reference Number:	142-02 SCE
Month:	February
Period Covered by this Report:	February 1- February 28, 2003
Name of Person Preparing Report:	Merrilee Harrigan

Section I. Program Summary

The Alliance to Save Energy developed the Green Schools Program in 1996 to provide hands-on, real-world education to help students understand energy and its link with the environment and finances; and at the same time to involve students and teachers with facilities staff to save energy in their schools. The program was initiated in response to the need for energy efficiency activities that will engage schools in efficiency activities, and to integrate energy efficiency instruction into classroom activities in a way that provides excellent, project-based learning experiences for students.

The Green Schools, Green Communities Project is an expansion of the successful Green Schools Program previously operated in the Edison service territory.

1. Program Activities

- **Administrative activities**

Ongoing administrative activities include selecting subcontracts and developing contracts, providing guidance for contractors and local project leaders, facilitating communication between Green Schools and various other efficiency projects in California and nationally, problem-solving with project staff, and reporting and accounting activities. There is also ongoing correspondence with school sites through teachers, custodians, administrators, other school-site staff and students. Local Project Leaders attend Student Advisory Council (SAC) team meetings and provide a high level of support for participants in the program.

We made all the arrangements for a group from our Southern California Green Schools program (comprised of a district representative, high school instructor, student, and former student, now an employee of our contractor, EEPIC) to prepare and make a presentation at the CPUC workshop in San Francisco on February 4, 2003. Alliance staff also attended the meeting.

- **Marketing and Outreach activities**

We are strengthening the teacher reporting system by making it easier for the teachers by instituting an electronic "30 words or less" monthly report on email.

This will help us to ensure that we capture the work being doing by the Green Schools teams at each school site.

Redlands High School

On four consecutive Saturdays (Feb 1-22), the Virtual High Teach High (VHTH) Physics class presented a series of workshops to teach the SAC team students (including HEART Academy students) about conducting energy audits. These VHTH students had been trained in the Savings Through Energy Management (STEM) program and are now sharing that knowledge. There were 20-25 students that voluntarily attended this workshop series and developed 26 different forms for auditing.

We made arrangements for 30 SAC team members to attend a 3-hour workshop at Edison's California Technology Application Center (CTAC) on February 14, 2003. Lester Le Day of Edison facilitated this workshop that covered HVAC, lighting, and any residential applications to the school site.

10 SAC team members from the HEART Academy went to Arrowhead Medical Center to tour their facilities. The students were able to tour the plant operations and see some of the measures and technologies that have been implemented to save energy. The Medical Center has agreed to establish a partnership with the SAC team to work together on energy conservation at the hospital facility.

Mesquite Trails Elementary School

We have been working closely with the students and the teachers after they completed an energy survey of their school site. They have made recommendations to turn off automatic sensors on the lights that were not working properly.

A list of action items was developed based on the results of the school site energy surveys. These action items were determined as potential energy-saving measures: taking out the light bulbs in the vending machines, setting the thermostat and leaving it at the designated temperature, turning off and unplugging all office equipment when not in use, and turning computers off at night.

The students prepared an Energy Conservation booklet with an energy survey that will be distributed school-wide for their fellow students to take home and have their parents help to identify ways to conserve energy.

Rialto Unified School District

We attended the district-wide Science Fair on February 27th. Several of the schools that participated in the event were Green Schools' sites and won awards for their energy-focused projects. We presented an award to Kolb Middle School for their project "The World of Energy."

Below are some of the highlights of energy projects that are being done at Green Schools sites in the Rialto Unified School District:

Eisenhower High School SAC team made Energy Conservation reading books for the younger grade students.

Boyd Elementary invited a representative from Rialto City Water Department to discuss how water effects energy i.e. toilets running, leaving water running in the sink.

Trapp Elementary had a poster contest with an energy conservation theme. They are also planning an assembly with the energy van that would include parents and the community (about 700-1,000) Making plans for 4/5th grade students to do a project-based learning assignment using energy and math, will include tool kits for auditing.

Kolb Middle developed a questionnaire that was distributed to each teacher, asking "How can students in the Green Schools program help you save energy in your classroom?" Results were very positive and suggestions were made for reminders by students and through posters (visual).

Myers Elementary is doing a light conservation project. Students wearing "Edison Hard Hats" are going around as "engineers" to help identify potential savings through the reducing unnecessary lighting.

Hughbanks Elementary is doing a landscape project for energy conservation. A representative from Rialto City Hall came to the school and gave the class some ideas on landscaping.

- **Direct Implementation activities**

Conduct a workshop for at least 3 additional school sites to bring first year new school total to 15 by 3/31/03.

We are continuing to do extensive outreach to recruit additional school sites for program participation. Schools are being secured for participation and are being invited to the Workshop that will be held on March 4, 5, 2003.

Establish a baseline of usage for each school site by 2/28/03.

We are working with Terry Moffitt to collect the preliminary baseline reports on all school sites. This information will be provided with quarterly report.

Hold Mid-Year Planning Meeting by 2/28/03.

We made all the arrangements, planned and facilitated the mid-year meetings for schools currently participating in the program. Mid-year meetings were held on February 19th, 25th, and 27th.

Deliverables: *Agenda and list of participants are attached. Evaluations and school plans will be provided with the quarterly report.*

Align Green Schools Materials with the California Secondary School (High School) Exit Exams (CAHSEE) Due 2/28/03.

Leslie Comnes, an Educational Writing Consultant, who has her M.A. in Education from San Francisco State University, under contract with the Alliance, has completed the draft of correlations that will be included with the quarterly report. This document is designed to assist high school teachers in using the Green Schools Program materials to help prepare their students for the California High School Exit Exam.

Deliverable: Correlations

Develop New Materials for Vocational Component:

The Alliance is working with the East San Gabriel Valley Regional Occupational Program/Technical Center to prepare a vocational curriculum on constructing an energy-efficient House. A draft has been completed of this curriculum unit, which incorporates all the components of home construction but with a particular emphasis on energy efficiency in home construction. This curriculum includes not only the technical content but also the information on student hours, testing, and academic requirements that is a necessary component for curriculum to be approved by the California State Department of Education.

The draft will be circulated among industry representatives and efficiency experts for their feedback and input to ensure that the curriculum includes the best and latest information on efficient construction components, materials, and practices.

The draft curriculum will not be sent as an attachment to this report; it will be included in the quarterly report.

Attend California and National Energy Efficiency and Education Meetings (this will be an ongoing task, as opportunities arise).

The Green Schools Manager, Martha Lake, attended the American Society of Mechanical Engineers Legislative Briefing at the State Capitol. This comprised of a panel of speakers that spoke on the need for funding to strengthen k-12 Science, Technology, Engineering and Mathematics Partnerships. Our representation was important as a networking opportunity to meet professionals in this field that share a complimentary mission of the Green Schools program in these important education subjects.

Deliverables: Agenda and brief description of the presentation.

Attachments:

- 1.1 Agenda and list of participants / Mid-Year Meeting February 19, 2003
- 1.2 Agenda and list of participants / Mid-Year Meeting February 25, 2003
- 1.3 Agenda and list of participants / Mid-Year Meeting February 27, 2003

- 2 Agenda/presentation from ASME briefing
- 3 Correlations of Green Schools Instructional Materials to the California High Schools Exit Exam

2. Program Expenditures

Financial information will be submitted in a separate document.

Section II. Customer Data

1. Customer Confidential Information

This report does not include any customer-specific information.

Section III. Supporting Documentation

The Alliance to Save Energy is not requesting monthly payments, therefore all supporting details and documentation will be included in the quarterly report.

Section IV. Additional Information

There are no additional items to be included in this report.