

Students Leading the Way



2008-2009

Energy Saving Success Stories
From Southern California



ALLIANCE TO SAVE ENERGY'S
Green Schools Program
Empowering Schools Through Energy Efficiency



ALLIANCE TO
SAVE ENERGY
Creating an Energy-Efficient World

Sponsors

The Southern California Green Schools Program is funded by California utility customers and administered by **Southern California Edison** under the auspices of the California Public Utilities Commission.



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Introduction to Green Schools

July 2009 marked the midpoint in what has been one of the most action-packed years in the history of energy efficiency, with the enactment of the American Recovery and Reinvestment Act (ARRA) in January, the Senate committee passage of the American Clean Energy Leadership Act (ACELA) in mid-June, and the House passage of the sweeping American Clean Energy and Security Act (ACES) later that month.

While Congress is still debating energy policy at the Capitol, students 3,000 miles away in California are already taking action to fight climate change by involving their schools, parents and communities in energy efficiency activities. During 2008-2009, Green Schools participants engaged in both tried and true and creative ways to save energy, such as forming Energy Patrol teams at schools to check that lights are off and appliances are unplugged, hosting energy assemblies to inform the whole school of the importance of reducing CO2 emissions through energy efficiency, and taking energy efficient behavior home through newsletters and Earth Day events.

With unprecedented budget cuts in California schools, increasing energy costs and the looming threat of climate change, the need for energy efficiency could not be greater. Given the proper tools, students can powerful catalysts to action in addressing the state's (and the nation's) critical energy issues.

The Alliance to Save Energy established the Green Schools Program in California in 1996 to help school districts save on energy costs and afford students the opportunity to become environmental stewards and energy-efficiency advocates in their schools, homes, and communities. The goals of the Green Schools Program are to:

- Educate students, faculty, staff, and the school community about energy efficiency and its relationship to the environment and the economy;
- Provide immediate energy savings in schools and homes through no-cost behavior and operations changes, and to provide longer term savings by encouraging retrofits; and,
- Strengthen academic learning using hands-on, project-based instruction and tools.

The California Green Schools Program began in Los Angeles County in 1999 and currently includes about 65 school sites in Southern California. The Alliance to Save Energy commends these schools for their accomplishments and for their contributions to *Students Leading the Way. 2008-2009: Energy Saving Success Stories from California.*

		
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California Project Leaders

The success of the Green Schools Program is a credit to the project leaders in California, whose diligent leadership has inspired and encouraged the efforts of teachers, students, custodians, and school administrators.

The Southern California program is implemented by a partnership between the Alliance to Save Energy and

Intergy Corporation



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We would also like to thank our creative and energetic Green Schools teachers for submitting these descriptions of their schools' activities.

California Green Schools 2008-09: Most Successful Year Yet

The California Green Schools Program wrapped up its most exciting and successful year yet, with three districts — Hesperia, Murrieta and Temecula — saving over 3.5 million kilowatt hours (kWh's) of energy, nearly \$600,000 in energy costs, and almost 1,800 tons of CO₂ emissions. This dynamic year saw over 60 schools engaged in numerous and creative energy saving activities despite unprecedented statewide budget cuts, and multiple teacher and staff layoffs. The school teams, supported by Green Schools Local Project Leaders Rick Thomason and Lorraine Gutierrez, worked side by side with District leaders, to make the program shine, even in the midst of an educational system in crisis.



The 2008-2009 highlights start with the extraordinary energy savings that were accomplished with the very active school teams. On average, across the three districts, the 2008-09 Green Schools saved 10 percent in energy use and costs. In their first year in the program, Temecula schools saved a whopping 1,904,752 kWh's, resulting in a cost savings of \$313,443. Murrieta schools continued to save big in their second year in the program, resulting in a savings of 1,163,661 kWh's or \$203,118. The Hesperia 1st and 2nd year schools, along with "Mentor" schools that have participated in the program over several years, also showed an impressive savings of 738,072 kWh's or \$117,157.

A few other highlights:

City Council Presentation

Vista Murrieta High School students Chad Perez and Mindy Robbins presented their Green Schools successes to the Temecula City Council in December 2008. Chad and Mindy explained the Green Schools Program to the Council and shared their accomplishments on behalf of the Vista Murrieta students and staff. They emphasized that during Vista Murrieta's first year in the Green Schools Program,

the Murrieta Unified School District saved an astounding \$110,000 worth of energy, and that these savings were spilt between the district office and the participating schools. The Vista Murrieta students proudly reported that their school's energy cost savings amounted to \$20,000, the largest savings of any of the Murrieta schools, and their school received a check from the district in the amount of \$10,000!

Youth Leadership Conferences

The Sultana High School Environmental Club students practiced their presentation skills at two Youth Leadership Conferences, sponsored by several organizations involved in environmental education, including Mojave Environmental Education Consortium, Southern California Edison, and Southern California Gas. At the first conference, held



on March 7, at Victor Valley Community College, Sultana students demonstrated the Green Schools Tool Kit, using the Watts Up meter to show how much energy small and large appliances use, even when turned off. Schools from Southern California's desert communities Victorville, Apple Valley, Hesperia, Lancaster, and Palmdale attended, along with parents and teachers, and community members.



Sultana High School students participated in the Youth Leadership Conference in San Bernardino on March 28, celebrating the grand opening of the new Highland Environmental Education Center. California Department of Education Director of Service Learning Michael Brugh invited the Sultana students to present on Green Schools service learning activities, sharing their success in saving

energy and money for their school and taking the energy efficiency message into their homes and the community. Keynote speaker Bill Nye, the Science Guy set the tone for the day with his wealth of knowledge about science and concern for the environment.

Custodians Rock!

Custodial staff involvement in *Green Schools* was impressive this year. Below are a couple "green star" examples:

At *Ranchero Middle School*, the district changed custodial staff hours to allow them to work more daylight hours in order to save energy on lighting. In addition to their daily checks to assure that all areas of the school were operating energy efficiently, they also installed timed circuit breakers on all computers in the computer lab and inventoried all personal appliances in the classrooms and offices, calculating the cost of these appliances over a 10-month work year, and sharing that information with school staff and students.

The custodial staff, along with other *Green Team* members at *La Vorgna Elementary School*, made sure all unnecessary equipment was turned off during school breaks. When school was in session, they walked the halls each day to encourage energy conservation in classrooms, hallways, and in the office, frequently talking to teachers and other staff members about the importance of turning off lights when rooms are unoccupied. Custodial staff also removed vending machines and other appliances where possible, removed lights from the remaining vending machines, and made sure computers and other devices were shut down or unplugged at the end of each day. The *Green Team* reported that many of *La Vorgna's* successes were due in large part to the custodians' "relentless" efforts to keep staff, students, and parents on the right track.

Districts collaborate on Earth Day 2009

Hesperia and Temecula Districts joined forces on Earth Day 2009. Temecula's French Valley Elementary School and Hesperia's Shadow Ridge High School worked together to develop activities and displays to promote energy and other resource conservation. French Valley implemented a large scale *Spring Fling*, which incorporated the Earth Day message of energy conservation, recycling, and keeping the community clean and green.



The event drew families from the Winchester and Temecula areas to a carnival-like atmosphere. Numerous food booths, games, and a climbing wall drew large crowds. As an added attraction, the Shadow Ridge High School Green Team students conducted three presentations for attendees, showing them how to save energy at home and at school.

Energy Policy Adopted by Hesperia and Murrieta School Districts

Hesperia Unified School District has a long and outstanding history with Green Schools. Over the years, all the district's schools have been involved in the program, bringing large cost savings to the district and energy efficiency and conservation to their environmentally fragile High Desert communities. After years of supporting their schools' Green Schools activities, the district worked with the schools to formulate a written district policy that incorporated the energy saving ideas and activities introduced by Green Schools. The policy marks the end of the district's formal involvement with Green Schools, but will help them carry on with their own internal version.

Hesperia's policy influenced the Murrieta Valley Unified School District to adopt its own energy efficiency policy. Both districts serve as excellent models for program sustainability, demonstrating how the educational and energy savings benefits of Green Schools can live on beyond the duration of the formal program.

Carnelian Saves Energy with Song

Carnelian Elementary School
District: Alta Loma Unified School District

Instruction

At Carnelian, teachers integrated energy conservation into classroom lessons by having students create "thinking maps" about ways to help the Earth, such as shutting off appliances and adjusting the thermostat. During computer time, students visited ecokids.com where they learned about what other kids do to conserve energy. Students also read books on starfall.com about ways everyone can help the Earth grow and thrive.

Action

Students and teachers conserved energy by turning off classroom lights and computers whenever appropriate. Students often took the lead by reminding teachers to shut off computers or lights when not in use, and to replace burned out light bulbs with energy efficient ones.

Residential and Community Involvement

Teachers gave their students a home checklist with tips to conserve energy and asked them to talk to their neighbors about energy conservation. Students sang a song about turning off appliances, and shared with each other and teachers what they had learned on ecokids.com.

Students lead the way by reminding teachers to shut off computers or lights when not in use.

Custodial Involvement

Custodians were extremely helpful in making sure the lights were turned off and replacing burned out incandescent light bulbs with CFLs. They even painted the roofs white to help cut down the costs of air conditioning!

Period	CO2 saved	kWh saved	\$ saved	% saved
9/06-5/09	4.83 tons	9,656	\$1,511	3.5%

Cypress Avoids Energy Waste

Cypress Academy
District: Hesperia Unified School District

Instruction

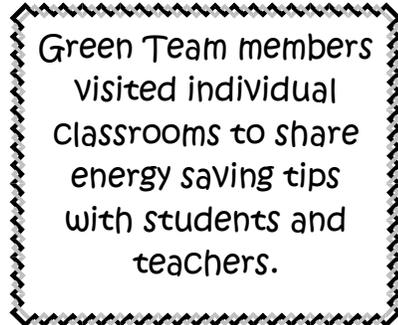
For students at Cypress, learning about renewable and nonrenewable resources was hands-on. Students readily absorbed information using home and school energy surveys in addition to playing Energy Bingo. Students even built Solar Powered Ovens as a way of showing what they learned!

Action

The Green Team Environmental Club enthusiastically visited classrooms to help students and teachers identify sources of energy waste. Students distributed a daily checklist to each classroom as a way to reinforce simple steps everyone can take to reduce energy use.

School Involvement

"Green" tips were included in daily morning announcements. To complement these tips, Green Team members visited individual classrooms to share and demonstrate energy saving actions for students and teachers.



Green Team members visited individual classrooms to share energy saving tips with students and teachers.

Community and Residential Involvement

Several classes at Cypress participated in the Southern California Edison-sponsored CFL exchange, in which family members pledged to install a free energy saving CFL in place of an old incandescent bulb. To help spread awareness of energy efficiency to family members, Cypress also published Green Team updates, tips, and reminders in the monthly school newsletter.

Custodial Involvement

The custodians were a great help to the team. In addition to unplugging and shutting down electronic devices at the end of the day, the lead custodian placed green reminder tags on any devices left on to help remind teachers and students to shut them off. The custodian also turned the air conditioning systems off at the end of the day and installed timers on outdoor lights to avoid unnecessary use.

Period	CO2 saved	kWh saved	\$ saved	% saved
10/07-6/09	60.70 tons	121,390	\$20,193	29.7%

Energy Instruction in Every Eucalyptus Classroom

Eucalyptus Elementary School

District: Hesperia Unified School District

Instruction

All teachers taught at least one lesson per month on energy or energy conservation. Teachers chose to use lessons from the *Green Schools Instructional Resource Guide*, which all grade levels received, or other science materials, such as a text book coupled with other resources. Through classroom instruction, students learned about the importance of conserving our natural resources, knowledge which helped to supplement their energy saving activities.

Action

Eucalyptus has participated in the *Green Schools Program* for many years, so the team decided to use this year to focus on expanding classroom instruction, while maintaining energy saving changes and behaviors from previous years. The *Green team* also gave staff regular energy saving reminders.

School Involvement

Staff modeled good energy-saving habits for students throughout the year with sayings like "lights out when we're out." Eucalyptus also participated in the *Light Bulb Exchange* to replace incandescent bulbs with CFLs.

Residential & Community Involvement

By teaching and modeling good energy habits for students, the message of energy conservation carried over from school to students' individual homes.

Custodial Involvement

The custodial staff regularly monitored and maintained lights, air conditioning, and heating. In addition, custodians removed unused lights and old equipment.

Period	CO2 saved	kWh saved	\$ saved	% saved
10/07-6/09	30.03 tons	60,068	\$10,609	18.7%

Hesperia Thinks Global, Acts Local

Hesperia High School District: Hesperia Unified School District

The Green Team at Hesperia worked hard all year to help everyone become more aware of the Green Schools Program.

Action

The Green Team and Science Club worked together to send out monthly questionnaires to staff inquiring about energy saving actions. Teachers turned off the lights when not in the classroom, turned off power strips, and put things on power saving mode when only going to be gone for a short time. Through their efforts, teachers learned that the little things they do to reduce energy use in the classroom can go a long way when everyone gets involved.

School Involvement

The Green Team and Science Club planned a school-wide awareness raising activity on saving energy for Freshmen Orientation Night.

Residential & Community Involvement

Hesperia's Green Team wrote emails to parents with energy saving tips and information.

Custodial Involvement

Custodians were very involved with replacing inefficient light bulbs, installing and checking timers to shut off appliances, and sending work orders for repairs.

Period	CO2 saved	kWh saved	\$ saved	% saved
10/07-6/09	61.93 tons	123,868	\$19,593	7.9%

Hollyvale Green Team Models Good Energy Behavior

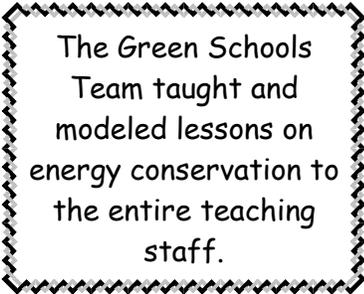
Hollyvale Elementary School
District: Hesperia Unified School District

Instruction

The Green Schools Team taught and modeled lessons on energy conservation to the entire teaching staff. They copied and passed out numerous lesson plans from the *Green Schools Instructional Resource Guide* for teachers to use in their classes. Students were eager to do science projects on energy conservation and ways to use energy wisely. One class did a science project on solar energy, incorporating knowledge about saving energy into the curriculum study of wave lengths.

Action

The Green Schools Team made posters to remind everyone to turn off lights when they leave the room. Students participated in a poster drawing contest on energy conservation.



The Green Schools Team taught and modeled lessons on energy conservation to the entire teaching staff.

School Involvement

The Green Team posted reminder signs next to every light switch school wide. As a result, the entire school used half the lights in their classrooms to conserve energy.

Residential & Community Involvement

The Green Team posted home energy saving tips in the monthly school newsletter and conducted a CFL exchange program that allowed the community to exchange one incandescent bulb for a CFL.

Custodial Involvement

The day custodian was a tremendous help to the Green Schools Program by completely shutting down three unused classrooms, making sure that lights in classrooms were left off when not in use and removing a vending machine from the teacher's lounge. Night custodians used half lights in each room while cleaning and turned off lights upon leaving each room. If custodians saw computers left on, they shut them down. Light covers were cleaned and bad light tubes replaced. The custodians also removed any large items blocking classroom windows in order to let more sunlight in.

Period	CO2 saved	kWh saved	\$ saved	% saved
10/07-6/09	29.86 tons	59,717	\$9,822	17.6%

Joshua Circle Creates Energy Notebooks

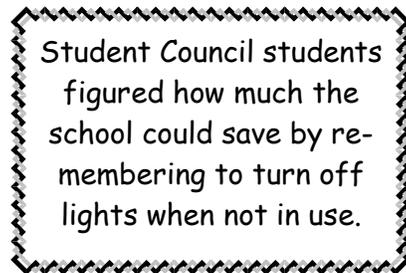
Joshua Circle Elementary School
District: Hesperia Unified School District

Instruction

At Joshua Circle, staff members were excited about using the lessons from the Green Schools Instructional Resource Guide. Staff copied lesson plans and made several notebooks: one for K-2, one for 3rd grade and one for 4th-6th. The notebooks were given to department chairs. Teachers are looking forward to expanding energy instruction again next year with the School District's newly introduced hands-on science program.

Action

The cafeteria used natural lighting whenever possible. Joshua Circle was able to purchase thirteen power strips so that all teachers were able to have at least one in their classroom. Green School student council students made posters with energy-saving tips which were put up around the school, as well as signs for staff bathrooms. Students came up with two slogans for saving lights: "Turn off the lights we'll be all right" and "See it on, See it off".



Student Council students figured how much the school could save by remembering to turn off lights when not in use.

School Involvement

Sultana High School students came to Joshua Circle twice to do energy audits with student council members. They did a great job, and the Joshua Circle students loved having them. Students used the data from the audits to calculate how much Joshua Circle could save by making sure the lights are turned off when the classrooms are not in use. Students presented their findings and shared resources at weekly staff meetings.

Residential and Community Involvement

During the school's Reading Night in January, students and their families participated in performing a simplified version of a play in the *Green School Instructional Resource Guide*. The play was performed three times with an average of 8 people per group.

Custodial Involvement

The *Green Team* met with the custodian at the end of the previous school year to brainstorm ideas for ways to save the school energy. The custodian did a great job helping the school achieve these savings by using minimal lights when cleaning classrooms and office.

Period	CO2 saved	kWh saved	\$ saved	% saved
10/07-6/09	18.87 tons	37,749	\$6,795	11.4%

Juniper Sings Along to Energy Savings

Juniper Elementary School
District: Hesperia Unified School District

Instruction

The Green Schools Team did two different presentations for each class, incorporating energy and energy conservation into instruction. They wrote a song for one of the presentations and encouraged all of the students to sing along with them. They demonstrated ways to conserve energy and taught students how much energy can be saved through very simple actions. The Green Schools Instructional Resource Guide was available for teacher use in the classrooms at each grade level. Fifth and sixth grade teachers worked with students on science projects that promoted energy conservation.

Action

Students made monthly announcements to remind everyone to save energy and also put informative posters up around campus.

School Involvement

The Green School Team worked with the computer teacher on a music video that they presented at the March assembly to the whole student body.

Residential & Community Involvement

At Juniper Elementary School's Science Fair, the Green Team gave out information about the school's involvement with the Green Schools Program and how the school has been practicing energy efficiency measures. Energy conservation was discussed at some of the Parent Teacher Council meetings. Flyers were sent home periodically to remind families to conserve energy.

Custodial Involvement

Custodians at Juniper Elementary School went right to work replacing weather stripping on doors, installing a new door in the cafeteria that closes more efficiently when students leave the building, and using half lights in the cafeteria throughout the day. Custodians also periodically checked thermostats throughout the school and replaced filters regularly. The ducts were cleaned thoroughly on two wings of the school for the air conditioning and heating systems. Energy efficient bulbs were regularly replaced in all of the rooms.

Period	CO2 saved	kWh saved	\$ saved	% saved
10/07-6/09	17.94 tons	35,876	\$6,226	10.8%

Lime Street Does Their Part to Save Energy

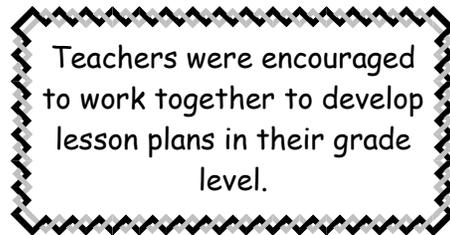
Lime Street Elementary
District: Hesperia Unified School District

Instruction

Lime Street Elementary gathered and shared lesson plan samples and ideas on saving energy. The *Green Schools Instructional Resource Guide* was made available for all teachers to use get ideas for ways to integrate lessons into the curriculum. The *Green School Team* also distributed helpful web addresses for *Green Schools* activities and lesson plans. Teachers were encouraged to work together to develop lesson plans in their grade level.

Action

The *Green Team* conducted a school wide energy audit and gave staff a list of "Tips to Save Energy at School and Home." The Team also asked teachers to promote energy savings in their classroom. The Team initiated a *Green Schools Student Energy Patrol* that conducted school wide energy patrols, promoting energy awareness.



Teachers were encouraged to work together to develop lesson plans in their grade level.

School Involvement

All Lime Street staff did their part to save energy: They turned off lights and computers when not in use, turned down thermostats, closed doors, and turned off and unplugged all unused equipment. Students conducted classroom audits and investigated alternative forms of energy for Science Fair projects.

Residential and Community Involvement

The *Green School Team* attended Science Night to promote energy efficiency, survey families about their home energy use, and distribute energy saving flyers.

Custodial Involvement

The custodial staff was very engaged in Green Schools activities. Custodians were involved in brainstorming ideas to promote everyday energy savings. They made repairs to doors and windows and powered down copy machines and computers when not in use. Older equipment was inspected and repaired. Energy efficient light bulbs were replaced where ever possible. In addition, the custodians assessed the whole school for retrofits and annual maintenance and submitted a list to the District Office.

Period	CO2 saved	kWh saved	\$ saved	% saved
10/07-6/09	6.93 tons	13,866	\$2,318	3.6%

Mesa Grande Powers Down

Mesa Grande Elementary School
District: Hesperia Unified School District

Instruction

Kindergarten classes actively discussed how powering down saves energy. Fourth grade teachers devoted an entire unit to energy conservation. Fifth grade teachers used a literature based lesson on conservation of the rain forest that focused on cause and effect.

Action

The students made posters to encourage powering down and saving energy at school and at home. At staff meetings and committee meetings, Green School staff promoted energy conservation through dialogue. Reminder messages were announced over the loud speaker for shutting items off before long breaks during the Thanksgiving, Christmas, and Spring Break. The students even reminded the teachers to turn off lights!

The students
reminded the
teachers to
turn off lights.

School Involvement

The CFL give-a-ways created dialogue between the students and their parents about energy awareness, also opening the dialogue with teachers. At each break, teachers are reminded to power down computers, printers, lights, and anything else that can remain unplugged during these times.

Residential and Community Involvement

The Green schools team gave away CFL light bulbs at Family Math Night and the Fall Carnival and talked to the parents regarding energy conservation. The Green Team also put up posters around the school to entice families to be more conservative with resources.

Custodial Involvement

Custodians at Mesa Grande made sure all power sources were shut down over long breaks.

Period	CO2 saved	kWh saved	\$ saved	% saved
10/07-6/09	5.66 tons	11,316	\$1,896	17.8%

Mesquite Trails Makes Electric Meters Spin Backwards

Mesquite Trails Elementary School
District: Hesperia Unified School District

Instruction

Teachers Mrs. Wallace and Merri Rice integrated appropriate lessons into their classrooms as well as Energy Patrol meetings from the *Green Schools Instructional Resource Guide*. The teachers also used A-Z readers on energy (leveled readers for guided reading on energy production).

Action



The *Green Team* held afterschool Energy Patrol meetings twice a week with 16 members! Members focused on conserving energy at school and home. The *Green Team* learned how to read the electric and gas meter and brought that information to their teachers and classroom. Students spent time daily after school checking to make sure computers were turned off in classrooms and computer labs.

School Involvement

The students on the *Green Team* were an asset to their school. Students wrote energy tips that were presented during morning announcements and also appeared in *Eagle Express*, the school newsletter.

Residential and Community Involvement

The *Green Team* at Mesquite Trails Elementary School hosted a CFL exchange at the Fall Round Up where CFL bulbs were given away (donated by SCE and Home Depot).

Custodial Involvement

Donna Stoecklin-Holguin and the rest of the custodial staff continued to maintain appliances and lighting fixtures. The computer technician also ensured that computers were set to "energy saver" mode turning off at 3PM and on at 7AM.



Period	CO2 saved	kWh saved	\$ saved	% saved
10/07-6/09	3.91 tons	7,826	\$1,157	2.5%

Science Fair Focuses on Clean Energy

Ranchero Middle School
District: Hesperia Unified School District

Instruction

The Green Team gave the Green Schools Instructional Resource Guide to the site Green School Club Advisor, who disseminated the information to all science teachers. Students and staff responded positively to the Guide. At the Science Fair, students created and presented projects relating to energy conservation and alternate energy exploration. Each year, the entire student body writes a comprehensive persuasive essay. This year's theme for the essay was about the need for energy conservation and the increasing need for the development of alternative energy sources. In addition, the daily student announcements broadcasted daily Green Tips and information about methods of conserving energy both at school and at home.

Action

Sultana High School students came to provide training to Ranchero Middle School students. A Green Club was established to increase student involvement. The students on the Green Club kept busy by using half lights in all classrooms breakers, locker rooms, cafeteria, and gym, shutting off air conditioning and heating in unused rooms, unplugging two unused industrial freezers, and reducing outside lights to half during weekdays and weekend evenings.

School Involvement

The Green Team presented information about Green School efforts and successes to the entire staff during monthly staff meetings, department chair meetings, and over daily student announcements.

Residential & Community Involvement

Green Tips, information, and descriptions of the Rancho Middle School Green School Program were included in Parent Newsletters that were sent home with students each month.

Custodial Involvement

Green Team members sent in a proposal to the school administration to change custodial staff hours to allow custodians to work more daylight hours thus conserving outside lights. The Rancho Middle School custodians made daily checks to assure that all classrooms remain on half lighting and the air conditioners and heaters remain properly adjusted. They maintained the cafeteria, gym, and locker rooms at half lights and also installed timed circuit breakers to all computers in the computer lab. They inventoried all personal appliances in the classrooms and offices, calculated the cost of these appliances over a 10 month work year, and shared that information with staff. What great Green Schools activities!

Period	CO2 saved	kWh saved	\$ saved	% saved
10/07-6/09	66.12 tons	132,242	\$19,696	12.8%

Shadow Ridge Checks Energy Savings off the List

Shadow Ridge High School
District: Hesperia Unified School District

Instruction

Green Team Leader Mrs. Turner integrated energy lessons into her classroom based on the *Green Schools Instructional Resource Guide*, and other curriculum.

Action

At Shadow Ridge, the Green Team learned about energy and identified possibilities for implementation of Green School activities. They promoted energy conservation by making laminated energy saver reminder cards and placing them above the light switches of each classroom.

School Involvement

The Green Team took the initiative to create an Energy Patrol checklist. The Energy Patrol team used this checklist in their monthly classroom visits to check if teachers are following the energy saving tips provided for them on their reminder cards. The checklist included reminders such as using half lights, using natural lighting whenever possible, keeping doors shut while the A/C is on, and setting heat/AC at 68-72 degrees.

Residential and Community Involvement

Shadow Ridge High School spread the message by sending home energy saving information from brochures supplied by Southern California Edison.

Custodial Involvement

The custodian at Shadow Ridge High School played an integral role in the Green Schools Program by providing the Green Schools team with monthly updates on changes in additional classes or changes in significant energy usage.

Period	CO2 saved	kWh saved	\$ saved	% saved
1/04-6/09	9.79 tons	19,578	\$2,729	6.0%

Sultana Trains New Green Schools Students

Sultana High School
District: Hesperia Unified School District

Instruction

The Sultana High School Green Team enthusiastically taught students principles of energy management, efficiency, and conservation. Much of the training was actually done by members of the Student Energy Management Team from last year, who trained the seven new students on the team how to do an energy audit, how to use the tools, how to do the calculations, and how to work with younger students.



Action

The Green Team incorporated their energy efficiency knowledge into a new public service announcement. Students also helped save energy by monitoring security lights, turning them off when left on during the day. The Green Team received a positive response from the Assistant Superintendent of Business Services when they shared with him their idea to use money from Green Schools' savings to promote Green Schools at other schools.

School Involvement

The Green Schools Club announced the formation of a specialized Student Energy Management Team. The Club President designed an application and 9 qualified club members were selected. Jazmin Pelayo, a graduate from last year, came in to assist with the training. The leading student from last year, Morwenna Rowe, now at UC Berkeley, also keeps in contact by email to see how their Green Schools activities are going. She is now an intern for the Alliance to Save Energy's Green Campus Program at UC Berkeley.

Residential and Community Involvement

The Green Team followed up on their visit and energy audit of the District Offices last May. The Student Energy Management Team made two visits to Joshua Circle Elementary School where they met with faculty and student leaders. Sultana High School was excited to see the 5th and 6th graders at Joshua Circle take off with the Green Schools Program. Requests came in from Canyon Ridge High School and Rancho Middle School to train students in doing energy audits. The team was also invited to assist leading a



workshop at the Youth Environmental Leadership Conference in Highland, CA, and they were excited to participate, especially since Bill Nye, The Science Guy, was the keynote speaker! Finally, the



Green Team was invited by the CA Department of Education Service Learning Director to join him in leading a workshop on

Requests came in from Canyon Ridge High School and Rancho Middle School to train students in doing energy audits.

service learning, sharing what they accomplished through Green Schools, the

results, and the personal benefits. This was a great opportunity to showcase the Green Schools Program with other schools in attendance.

Custodial Involvement

The night lead custodian continued to monitor the portables for air conditioners or heaters left on at night. Every Friday, he checked to insure that the temperature settings have not been altered.

Period	CO2 saved	kWh saved	\$ saved	% saved
9/07-6/09	67.83 tons	135,659	\$19,048	7.8%

Topaz Institutes Half Lighting School-Wide

Topaz Elementary School
District: Hesperia Unified School District

Action

The Green Team engaged students to take responsibility for monitoring energy usage in their classrooms and asked a student from each classroom to turn off lights and computers at the end of the day.

The Green Team instituted half-lights only throughout Topaz Elementary School in all classrooms and shared areas.

School Involvement

All the school's light switches have stickers to remind users to turn off lights when not in use to save energy. Most students became very aware of the need to conserve energy and actively looked for areas where they could turn off the lights.

Residential & Community Involvement

The well deserved Green Schools plaque from the Alliance to Save Energy is proudly displayed so that parents and visitors can see it when they come into the school. When asked why Topaz Elementary School has no lights on during the weekends, "Saving Energy" is the response.

Custodial Involvement

The night custodians and the lead custodian made sure that all lights and computers were off. Any electrical devices were unplugged if they were not being used. Timers were installed in many areas where lights had often been left on.

Period	CO2 saved	kWh saved	\$ saved	% saved
9/07-6/09	17.20 tons	34,394	\$6,114	12.1%

Alta Murrieta Identifies Energy Hogs

Alta Murrieta Elementary School
District: Murrieta Unified School District

Instruction

At Alta Murrieta, the Green Team utilized Earth Day lesson plans from the internet and made the information available to teachers. The team shared green ideas for student science projects this year. Teachers educated their students on energy conservation by showing them the value of reduced lighting in classrooms, removing fans, refrigerators and microwaves. At Open House, the Science Fair presented energy saving projects.

Action

The Green Team put Associated Student Body (ASB) students in charge of weeding out "energy hogs" by patrolling classrooms and identifying the energy "hogs," giving "tickets" to teachers who violated the energy policies. These Energy Patrols reminded all staff to turn off computers, lights, radios, and other electronics.

School Involvement

Energy efficiency was presented at school wide assemblies and "Earth Capades." Once a month, energy conservation ideas and small skits were presented at flag assemblies. The Green Team met with the principal of Alta Murrieta Elementary School to talk about the green needs of the school.



Residential and Community Involvement

The Green Team gave energy wasters a scare by acting as energy vampires and unplugging items that were not in use. At all school events, CFL bulbs were passed out to families. The Green Team also spread awareness to the community through weekly parent newsletters and bi-monthly flyers on green news issues.

Custodial Involvement

The custodial staff was extremely supportive of the Green Schools Program, constantly turning off lights outside and inside the office, shutting off computers, as well as reminding staff to turn lights and computers off. They installed photocells on outside lights. Finally, they monitored classrooms, computer labs, and offices to ensure everything was turned off at night, weekends, and holidays.

Period	CO2 saved	kWh saved	\$ saved	% saved
10/07-6/09	14.41 tons	28,826	\$5,877	6.9%

Everyone Saves at Antelope Hills

Antelope Hills Elementary School
District: Murrieta Unified School District

Instruction

Antelope Hills incorporated energy-related lessons from the *Green Schools Instructional Resource Guide* as well as other teacher's resources. *Green Team* students worked with teachers on curriculum requirements and discussed energy use in their classrooms.

Action

Antelope Hills Staff was informed via e-mail and staff meetings of the plan to continue energy conservation. The *Green Team* asked all staff to shut down power strips at the end of the day and to shut off lights upon leaving their rooms. Posters were placed in strategic positions on campus to get the most reception. Desk lamps were provided upon request for teachers for after school use. The *Team* also performed random room checks to make sure energy conservation measures were taking place. Light switch templates were placed in all rooms to remind students and staff to conserve energy. Fifth grade *Energy Patrol* conducted classroom inspections to ensure energy efficiency.

School Involvement

Last year's energy savings results were shared with all staff and students, as well as the PTA. *Energy Patrols* reported on energy savings results during *Flag Salute* announcements.

Residential and Community Involvement

The *Green Team* was hard at work to provide home audit and rebate information for the community. Energy conservation efforts were written into school and PTA newsletters. Information was shared with staff and submitted for follow through.

Custodial Involvement

Custodians at Antelope Hills performed informal energy audits, checked non-classrooms for energy waste, and checked for energy waste over winter break in classrooms and all other school areas.

Period	CO2 saved	kWh saved	\$ saved	% saved
10/07-6/09	38.57 tons	77,131	\$13,518	18.0%

Avaxat Finds New Ways to Save

Avaxat Elementary School
District: Murrieta Unified School District

Instruction

The Green Team presented sample lesson plans for teaching about energy to teachers at Avaxat Elementary School. Teachers successfully implemented lessons and integrated objectives into Science, Math, and Language Arts.

Action

An old refrigerator was replaced with a new energy star refrigerator, purchased with the money saved from the 2007-2008 school year. Email reminders were sent out periodically to remind teachers to shut down computers and turn off lights when not in use. Two teachers walked through the campus before holidays to make sure that all classrooms were shut down properly.

School Involvement

Each Thursday at the flag salute, selected 5th graders read brief Green Tips during announcements. Teachers and students became aware that lights, computers, etc. should be shut down or turned off when not in use.

Residential & Community Involvement

Many parents stayed for the Thursday flag salutes and listened for Green Tips in the announcements.

Custodial Involvement

The day custodian visited each room at the end of the day and turned off appliances that weren't in use. Night custodians were enlisted to make sure copy machines were shut down properly each evening at 5:00pm.

Period	CO2 saved	kWh saved	\$ saved	% saved
10/07-6/09	28.56 tons	57,125	\$19,818	17.3%

Cole Canyon Integrates Energy into New Science Curriculum

Cole Canyon Elementary School
District: Murrieta Unified School District

Instruction

Cole Canyon adopted a new science curriculum, allowing teachers to tie in energy lessons into the Physical Science portion. All grade levels studied energy and its uses. Activities included "The Cost of Energy," where students charted energy use of common household appliances and the cost of such use. The Green Team also discovered opportunities to tie-in energy lessons with other subjects such as social studies, the Energy Equation Lessons were utilized at each grade level.

Action

Cole Canyon realized they could make a big difference in saving energy by simply turning off the lights every time someone left the room. They found that while motion detecting switches automatically turn off the lights when the room is unoccupied for 10-15 minutes, turning off lights when leaving the room can save over 30 minutes of energy use per day! The Green Team strongly encouraged students and teachers to turn off lights when they leave the room. The team also recommended to each teacher that they assign an "Energy Monitor" or "Light Monitor" to switch off the lights every time the class leaves the room. They reminded staff about the importance of unplugging various appliances and electronics in their rooms over the break. The Green Team members checked each room at the beginning of each break to ensure that necessary items were unplugged. They always followed up by checking all rooms after school and assisting those who did not remember to unplug.

School Involvement

The Cole Canyon Green Team created energy usage charts and explained them to students. Students became aware of what they could do to save energy and came up with their own energy saving ideas. Classes that showed outstanding energy saving preparation for Spring Break were "Caught Being Good".

At a school wide flag salute, the Green Team announced the amount of dollars saved last school year. The Team emailed staff with energy saving tips that they can incorporate into their everyday routines. They also updated the school on energy savings over the break.

Residential and Community Involvement

In several classes, students created flyers with earth-friendly tips and distributed them to the students and families in the community. Several teachers included earth-friendly tips in their weekly/monthly newsletters. In addition, many teachers encouraged families to save energy by rewarding students who did not watch television during state testing week.

Custodial Involvement

The custodian was always readily available to discuss solutions and new areas of concern. Custodial staff assisted with checking each room before each break. Mike, a custodian, monitored the daily usage of energy in not just the classrooms but also in the main buildings such as the multipurpose room and the office. Mike also served as an important contact between the day staff and the night custodians.

Period	CO2 saved	kWh saved	\$ saved	% saved
10/07-6/09	26.33 tons	52,651	\$10,018	10.6%

Creekside Saves Energy in the Community

Creekside High School
District: Murrieta Unified School District

Instruction

Science teachers at Creekside High School chose lessons from the Green Schools Instructional Resource Guide provided by the Green Schools Program and students chose lessons from the handbook to present to their advisement classes.

Action

Students designed posters and flyers to put up near light switches, computers and any electrical equipment to remind users to shut these down at the end of the day. Students did room checks at the start of a long school break to make sure all electrical equipment was turned off. Students installed new power strips as needed in classrooms as well as the front office.

School Involvement

During Open House, students presented information to parents and community members by distributing flyers and CFLs while they engaged in conversations with parents and the community about the importance of energy conservation.

Residential and Community Involvement

Students brought home the information that was discovered during the school audit. They performed home energy audits and found many ways to reduce their families' energy use. Some students went to local businesses such as their family dentist or doctor and discussed ways to reduce energy. Students were provided community service hours for performing these tasks.

Custodial Involvement

The custodian at Creekside helped to install power strips. He attended the Open House and supervised student presentations while giving teachers the opportunity to visit with parents in classrooms.

Period	CO2 saved	kWh saved	\$ saved	% saved
10/07-6/09	17.03 tons	34,060	\$7,692	19.3%

Daniel Buchanan Unplugs to Save

Daniel Buchanan Elementary School
District: Murrieta Unified School District

Instruction

Teacher Sarah Caskey presented staff development demo lessons to teachers at two staff meetings. She used examples and made references to the Green Schools Instructional Resource Guide and even developed some of her own lessons. As a result, energy lessons were integrated into every class level. The Green Team Student Club made classroom presentations to promote energy conservation. The Club also demonstrated energy usage to K-2 grade classes.

Action

The Green Team made use of half lights instead of full in classrooms as appropriate, unplugged appliances and computers on a regular basis, and attended two staff meetings to brainstorm ideas with staff on ways to save energy and promote classroom lessons. Staff found the Tool Kit to be quite helpful and was surprised to learn that after the Tool Kit resources were used in November and December, an amazing decrease of 7% energy usage was achieved!

School Involvement

Student Green Team members made classroom presentations, held poster contests, and performed weekly checks to discover new energy conservation behaviors. Fourth and fifth grade students gave tips on conservation to younger students and their peers. The students did weekly checks of classroom energy usage behaviors and reported to the Green Team Coordinator.

Residential and Community Involvement

At the annual "Energy Night" for parents, community partners, and families, the Green Team passed out information packets and displayed student energy projects. In May, Southern California Edison's energy efficiency literature was distributed and during Back-2-School Night, CFL light bulbs were distributed to be exchanged with incandescent in students' homes.

Custodial Involvement

The custodial staff at Daniel Buchanan was supportive of Green Schools activities. They changed their night time cleaning routes by looking for energy conservation measures, using half lights in rooms as needed, checking and reporting on HVAC problems, turning off appliances and computers over the weekends, and changing out inefficient incandescent light bulbs with CFL light bulbs.

Period	CO2 saved	kWh saved	\$ saved	% saved
10/07-6/09	6.87 tons	13,748	\$2,498	2.6%

E Hale Curran Students Monitor Energy

E Hale Curran Elementary School
District: Murrieta Unified School District

Instruction

Teachers across the E Hale Curran campus used the *Green Schools Instructional Resource Guide* to implement energy efficient lessons into the curriculum. Teachers also assigned volunteers to be classroom energy monitors.

Action

E Hale Curran's Energy Patrol conducted energy audits around the school. Teachers who were saving energy received a raffle ticket for the monthly Green Team Employee-of-the-Month parking spot. From the money saved from last school year, new energy saving refrigerators and microwaves were purchased for use in the teachers' lounge. The Green Team researched issues with vending machines and looked for ways to save energy on them. Teachers made sure that computers were turned off each night and used half lights when possible.



School Involvement

Students in grades 3-5 participated in the school energy patrol. All students in 1st-5th grades participated in the "Go Green" assembly sponsored by the Lake Elsinore Storm. Teachers looked for students who demonstrated random acts of greenness and students received recognition at weekly flag salute. Local businesses generously donated food and entertainment gift certificates for the students.

Residential and Community Involvement

The Green Team put together energy efficiency tips in fliers that were sent home. At Open House and Back to School Night events, the team made energy conservation tips available at information tables.

Custodial Involvement

The custodial staff met with the Green Team to discuss and share ideas. They helped monitor use of energy at night and reported any problems to the Team as well as the Murrieta Unified School District. They also monitored energy usage on the school website.



Period	CO2 saved	kWh saved	\$ saved	% saved
10/07-6/09	39.75 tons	79,499	\$14,250	17.5%

Lisa J. Mails Knows Where to Save

Lisa J. Mails Elementary School
District: Hesperia Unified School District

Instruction

The Green Team at Lisa J. Mails reviewed Science standards for each grade level and incorporated energy lessons into the appropriate standards. Teachers used lessons from a variety of sources including the Green Schools Instructional Resources Guide, science textbooks created by teachers, and various internet resources. Fifth grade students, as part of their science unit on the solar system, researched how solar energy can reduce the use of fossil fuels as an alternative source of energy. They also made their own solar ovens and used them to cook pizzas! Fourth grade students attended a field trip to Diamond Valley Lake in Hemet. The Metropolitan Water District of Southern California taught students how to conserve water both at home and at school. Third grade students, as part of their physical science study, conducted home energy use surveys with families.

Action

Each month, the team addressed staff during their meetings and requested initiation of actions to reduce energy such as turning off classroom computers and fluorescent lighting, turning off pod lights, pod computers and everything else before leaving for the day and before Winter Break. Fifth grade team members evaluated energy abuse at the middle school and developed a proposal for reducing energy usage for next year. With the help of middle school teachers, they created a Green Schools Team at Dorothy Mc Elhinny Middle School that will begin next year.

School Involvement

Students at Lisa J. Mails used their creativity to save energy. They made reminder signs for each classroom to help reduce energy use, a Public Service Announcement to share awareness of energy reduction on weekly school-wide

news, and a skit about energy conservation for the bi-weekly Soaring Spirit Assembly. To promote awareness of energy usage and provide ideas for energy reduction and efficiency, Green Team members held an Earth Fair during the Spring Showcase. Among other activities, the Green Team members included information fact sheets on how to reduce energy at home.

Residential and Community Involvement

Students created a sheet on energy-saving tips that they shared in the weekly school bulletin and planned a variety of activities on home energy conservation to present during Earth Week.

Custodial Involvement

Lisa J. Mails' Lead Custodian sent weekly e-mails to staff commending energy use reduction, as well as polite requests to individual staff members who consistently forgot to reduce energy in their classroom. All custodial staff helped to reduce energy use by turning off lights and appliances after cleaning classrooms, placing reminder signs in custodial offices and closets, and regularly reminded teachers to turn off computers. A facilities staff member went beyond the normal call of duty by working extensively with administration to inform them of trouble areas of the school site. Custodians also worked with maintenance and district personnel to inform them of problem areas such as lighting not turning off automatically and fridge leaks.

Period	CO2 saved	kWh saved	\$ saved	% saved
10/07-6/09	21.02 tons	42,048	\$6,689	7.9%

Monte Vista Celebrates 3 Ways to be Green

Monte Vista Elementary School
District: Murrieta Unified School District

Instruction

Monte Vista not only integrated lessons from the Green Schools Instructional Resource Guide, but also developed some of their own energy lessons and activities for each grade level. These lessons rotated throughout the school and the Green Team challenged staff to get 100% participation in delivering an energy lesson. The Green Team wrote and communicated grade-level appropriate lessons at staff meetings. Library staff also got involved by delivering lessons and activities to classes during Earth/Green Week.

Action

The Green Team worked hard to save energy at Monte Vista. The Extreme Green Team performed energy audits and green light switch signs were posted to remind teachers to cut down to only one light switch when possible and shut down all lights before each holiday. The Team put in a request to the district to install a computer program that automatically shuts down computer labs daily. They set up an icon in the computer lab with a direct link to Energyhog.org. And with the money earned from the Green Schools Program last year, the team purchased additional school materials. In addition, Energy Star refrigerators were installed for staff lounges and an Energy Star freezer for the workroom.



School Involvement

The Extreme Green Team hosted weekly assemblies looking for energy saving ideas for their "3 Ways to be Green Drawing." They also conducted energy audits where they checked to make sure the green light switch reminders were above every light switch in the school and also checked for weather stripping on every door in the school. Earth Day-Green Week Events included wearing green to school, door decorating with recycled materials and sharing earth friendly messages.

Residential and Community Involvement

The Green Schools Team kept Monte Vista families updated on energy efficiency news with articles and information in monthly school newsletters and also invited parents and the community to share their ideas for saving energy.

Custodial Involvement

Custodial staff ensured that all lights not being used were turned off, monitored after hours facility lights such as parking lots, etc., and helped shut down computer labs. They communicated energy efficiency needs to administration or district when necessary. They also notified the district of campus lights coming on too early (before street lights) in the evening.

Period	CO2 saved	kWh saved	\$ saved	% saved
10/07-6/09	45.91 tons	91,811	\$17,313	19.5%

Energy Efficiency Gets a Green Light at Murrieta Elementary

Murrieta Elementary School
District: Murrieta Unified School District

Instruction

After many hours of instruction and brainstorming, students in 4th and 5th grade developed a Power Point presentation that outlined ways in which students and teachers could help save energy in classrooms, which they presented for all the classrooms. During computer lab time, students visited the Energy Hog website in the computer lab where they enjoyed navigating through the site to become "Energy Busters".

Action

The Green Team conducted Energy Patrols as well as classroom and school-wide audits several times throughout the school year. They visited classrooms during the last week of school to remind teachers and students to power down for the summer. The Team also posted notices around all light switches, plugs, and surge protectors as reminders to unplug or shut down. Half lights were utilized when warranted and classroom and lounge refrigerators were unplugged over extended vacations. What's more, new energy efficient microwaves and 25 surge protectors were purchased with Green Schools funds from last year!



School Involvement

The Giant Green Light Bulb was presented each month as the "We Know WATTS UP!" award. This was given to the classroom that was making conscious efforts to save energy. The winning classroom was determined by the custodial staff. Green

Team members also posted different reminder notices in classrooms such as "use half lights," "don't be an energy hog," "unplugged?" "show me the money," and "please turn me off when not in use." All students attended an energy assembly in which many ways to help the environment and conserve energy at school and home were discussed.

Residential and Community Involvement

A reporter from the California newspaper interviewed many of the Green Team students about why it is important to be energy efficient and save energy. The interview was published in an article in the local section of the newspaper!

Custodial Involvement

Custodians made significant contributions by ensuring computer labs were shut down at the end of each day, utilizing half lights in the Multipurpose Room daily, and monitoring the energy consumption school wide and reporting back to the Green Team. Communication was ongoing between the custodians and the Green Team on how best to conserve energy and areas that needed improvement.

Period	CO2 saved	kWh saved	\$ saved	% saved
10/07-6/09	43.47 tons	86,939	\$16,714	22.8%

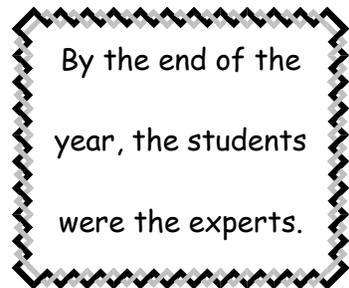
Murrieta Valley Promote "Lights Off"

Murrieta Valley High School
District: Murrieta Unified School District

Instruction

The environmental science class covered topics about the various types of energy acquisition such as coal power plants, hydrothermal, geothermal, solar, wind-turbines, and tidal power. By the end of the year, the students were the experts and presented their projects highlighting each source of energy. Green Team members attended a solar workshop and gathered materials to use. Green Team students in environmental

science promoted the energy saving ideas through morning announcements. The last two units this year discussed both non renewable and renewable energy sources. The renewable energy discussion included topic areas such as solar, wind, geothermal, biomass, passive solar, and tidal power and student learning was assessed through a multiple choice assessment.



Action

The Green Team, made up of 10 students, monitored classroom energy use twice a week. Each week, the team monitored a different department on campus and created a point system for classrooms, awarding behaviors such as unplugging appliances when not in use, using half lights, and using fluorescent work space lights. They also monitored computer shutdown cooperation each weekend to see which teachers were complying.

School Involvement

Students promoted a "lights off" campaign with fliers in each classroom and discussed energy saving ideas with the entire student body during morning announcements. Students also promoted a teacher rewards program for those teachers who participated in computer shut down protocol over the weekend. The Green Team created an incentive program where cooperating teachers could enter their names in a ballot for shutting down computers over the weekend and for classroom energy spot checks. Winning teachers were featured on the morning announcements and received \$10 gift cards.

Residential and Community Involvement

CFL bulbs and energy awareness fliers were distributed to parents during Back to School night. The team promoted a district wide "TV Turnoff Program" for the week of April 20 - 26 and a district wide Bike to Work Day on May 22.

Custodial Involvement

Custodians monitored energy abusers in the evening and reported their findings to the Green Team. Some things that they looked for included lights left on, TVs left on, and computers left on. Once the Green Team received the input, they made recommendations to the "energy hog" staff. Lenny Crane acted as a nighttime monitor for energy consumption. He also reported to the Green Team any energy abuses and made suggestions on places where energy savings would be possible. With the help of the custodians, the Green Team worked out a system to turn off hallway lights in the buildings for after school hours.

Period	CO2 saved	kWh saved	\$ saved	% saved
10/07-6/09	4.77 tons	9,536	\$1,621	0.5%

An “Xtreme” Green Team at Rail Ranch

Rail Ranch Elementary School
District: Murrieta Unified School District

Instruction

The Green Team found energy saving ideas online and applied them to their instructional lesson plans. Conservation and energy efficiency were not only woven into the instruction, but even into the culture of the classrooms. Teachers facilitated whole group discussions of the science curriculum, energy use, and humans' responsibility to conserve resources. The concept of not raising or lowering the thermostat on whim was introduced to the students. Classrooms were routinely “Cooled Down” by turning off the lights. The over-arching message incorporated into the instruction was to be eco-aware.

Action

The Green Team at Rail Ranch Elementary School discussed what behavioral changes were necessary to be more energy efficient. Rail Ranch reduced their lighting usage and found more teachers working with doors open. The Green Team also hosted a well received “Black Out,” an hour-long event where no one used power, everyone opened all doors and shut off the AC, unplugged all computers, and did an activity that required no electricity. The Xtreme Green Team walked around and checked to see how many classrooms participated and they were pleased to note 100% participation—even in the offices! The event was so successful, they decided to do it again next year. The Xtreme Team also conducted energy audits to make sure refrigerators were unplugged and ready to be defrosted, and all appliances and electronics shut down. The vending machines were shut down by the breaker.

Students learned to turn off the lights when not in use and were encouraged to buy Green Team water bottles to use in the classroom. As a result, the electric water cooler in that room was unplugged and removed.

School Involvement

Rail Ranch hosted two assemblies to enhance energy and water conservation awareness. The Green Team created and sold water bottles that said "GO GREEN." The water bottles were a hit, as they were used by students, staff, and even the principal!

Along with many of the classrooms, Rail Ranch also reduced lighting in their library and Multipurpose Room. Visitors to these places noticed that the lighting was softer and noticed posters promoting light reduction. When the students noticed the lights were off in the Multipurpose Room during lunch, they asked why. The Green Team responded by telling them why it is important to only use lighting that you need. A huge accomplishment for the Rail Ranch Green Team was familiarizing the students with turning on half the lights when they enter the pods and the RSP room. The students became empowered to correct the teachers! The Green Team also put together a library of written and video publications on earth, energy and environment which they made available for checkout by the staff. On various occasions, these publications were scattered on the table in the lounge to encourage the staff to read while they eat. This strategy proved successful, as the books showed some wear (always a good thing in a library!)

Every week, Rail Ranch had Green Wednesdays where everybody was asked to wear a green shirt to remind them to take care of the earth. Incentives such as recycled pencils and GO GREEN t-shirts were given to students who wore green. Students told their parents about Green Wednesdays, and about the green efforts at school. Many parents started wearing green on Wednesdays too!

Residential and Community Involvement

Rail Ranch participated in the Earth Day Grocery Project with Stater Bros Market in which the students drew energy efficiency designs and tips on grocery bags that were provided to customers for their groceries. The staff at Stater Bros. stated that patrons were very excited about receiving an artistic green reminder from the students at the school. Many teachers reported that they have taken the green team's recommendation home and began unplugging unused appliances and turning power off at home. The Green Team hosted two assemblies that informed students to conserve water and energy and not to litter. The students took the information home.

Custodial Involvement

The custodial staff at Rail Ranch participated by being aware of their usages and new electronic installments. They monitored and reduced lighting in rooms that were not in use and at the end of the day. They took down things hanging from the ceiling that activated the A/C and motion detectors and installed vending m-sers.

Custodian Antoinette Vega was outstanding in her dedication to actively promote the cause of saving energy. She along with Karen Banks were instrumental in advocating turning off lights and were considered the champions of the Green Team through their energy saving techniques. Antoinette took on the initiative to reduce energy use daily, as well as on weekends and over breaks. She took ownership of ultimately switching to no electricity usage over breaks. The night custodians turned off computer monitors that were left on overnight and they provided the Green Team with the names of implicated teachers.



Happy Earth Day sign hung in Stater Bros during the Earth Day Grocery Bag Project.

Period	CO2 saved	kWh saved	\$ saved	% saved
10/07-6/09	41.63	83,258	\$15,164	18.7%

Shivela Uses Tech Program to Save Energy

Shivela Middle School
District: Murrieta Unified School District

Action

Shivela's Green Team worked hard to remind staff to turn off lights, shut down computers, copy machines, etc.

School Involvement

Green Team members met with the technology teacher to discuss the integration of Green Schools into the Technology Program so all students rotate through the class and pick up energy saving information.

Residential and Community Involvement

Green Team members and staff took information they learned about energy efficiency and the conservation habits they developed to apply in their homes.

Custodial Involvement

The support staff did a great job making sure copiers and other non classroom equipment was off.

Period	CO2 saved	kWh saved	\$ saved	% saved
10/07-6/09	46.21 tons	92,418	\$17,119	13.1%

Thompson's Energy Efficiency Performances

Thompson Middle School
District: Murrieta Unified School District

Instruction

Teachers created and incorporated energy lessons into their classes. In 7th grade math classes, students interpreted the data that had been collected from energy lessons and school energy use surveys.

Action

Students used the Green Schools Tool Kit to measure and assess energy usage. In addition, students installed energy efficient light bulbs in four areas of the school.

School Involvement

The Science Club created skits to promote and encourage students and the community to save energy. Skits focused on ideas for incentives for people to conserve energy at school and in the community. To encourage students and teachers to be energy savvy, Science Club students also created videos which were shown on the Thompson News throughout the year. The Green Team sent emails reminding teachers to shut down as many appliances as possible before breaks. Student members of the Green team also hand-delivered energy-saving reminders for teachers and staff throughout the year.

Residential and Community Involvement

Science Club and Green Team students set up an energy information booth during Astronomy Night with energy saving tips for the community.

Custodial Involvement

Custodians were essential in providing all the necessary tools, equipment and expertise to help students switch out light bulbs.

Custodians also installed vending misers and turned off computers, equipment and appliances school-wide throughout the year.

Period	CO2 saved	kWh saved	\$ saved	% saved
10/07-6/09	19.13 tons	38,256	\$9,032	5.1%

Tovashal Shines for Energy Savings

Tovashal Elementary School
District: Murrieta Unified School District

Instruction

Teachers collaborated to share energy lessons, information, and strategies to successfully integrate energy into the newly adopted science curriculum. Some popular lessons included Earth as a Resource, Natural Resources, Wind Energy, and Water Energy.

Action

Green Team members monitored electricity use in the school at large, as well as in individual classrooms. The Team took responsibility for turning off or unplugging appliances as agreed upon with teachers. Students took the lead in turning off classroom computers and appliances as well as after school computer lab monitors.

School Involvement

Green Team members made decorated light switch plates which they posted around the school to remind students, teachers and staff to save energy by turning off the lights.

Custodial Involvement

The day custodian reduced lighting use in common areas such as the Multipurpose Room by using half lights. Night custodians ensured that all the lights were turned off throughout campus and rechecked that computers in classrooms and in the computer lab were shut off each evening.

Period	CO2 saved	kWh saved	\$ saved	% saved
10/07-6/09	4.49 tons	8,970	\$1,764	2.5%

Vista Murrieta Calculates Savings for Home Energy Savings

Vista Murrieta High School
District: Murrieta Unified School District

Instruction

The Environmental Science class used information provided by the Green Team to discuss ways to better utilize energy and ways to reduce energy use in the school. The conversation led to a dialogue about the next steps at local, state, national, and international levels to save energy and generate more renewable electricity. The AP Biology students used data collected by the Green Team to determine how much energy they used at home. Students came up with a plan that identified appliances in their homes that they could unplug, shut off, or use less in order to save energy and money. They also developed a solar plan that determined how many solar panels would be needed to power their homes, the total cost involved, the government rebates and incentives they could receive, as well as the total recoup time for their investment.

The Green Team served as the authorities on energy use at school and delivered data to other classes that wanted to use the information they developed in class or department projects.

Action

The Green Team served as the energy use authority at Vista Murrieta. They monitored energy use, collected data, and made suggestions for the school to save more energy. They offered their data to other classes that wanted to use the information for projects. The Green Team identified "low hanging fruit," or things that can be easily identified to help conserve energy. An example of the "low hanging fruit" at Vista Murrieta included the hall lights that were left on over the weekend when no one was on campus.

School Involvement

The data collected by Vista Murrieta's Green Team, and comparison data from other district schools, was emailed to every staff member on campus. This data was useful because it not only let people know that that they were making a difference, but also showed the relevance of the Green Schools projects. The same data was used by the Graphic Arts Department where students made energy awareness posters that were hung around the school, at the district office, and even at city hall!

Residential and Community Involvement

Information about Vista Murrieta's energy saving efforts and progress was sent to the community at large by using Pony Express Email, which reaches thousands of family and staff members on a monthly basis.

Custodial Involvement

The Green Team and custodial staff worked together to identify and address energy saving problems. If custodians saw energy being wasted while on their rounds, such as the lights left on, computers on, dripping faucets, etc., they reported the problem to the facilities manager so the issue could be resolved.



Period	CO2 saved	kWh saved	\$ saved	% saved
10/07-6/09	152.75 tons	305,499	\$43,061	11.8%

Warm Springs Thinks of Fun Energy Facts

Warm Springs Middle School
District: Murrieta Unified School District

Instruction

At Warm Springs, a number of classrooms conducted their classes with half lights and unplugged TVs when not in use. Many classes took lessons from the *Green Schools Instructional Resource Guide*, and all grade levels were provided with lessons on energy conservation and renewable energy sources—the entire 6th grade did a unit on alternative energy. Most teachers facilitated a class discussion on energy use, conservation, and how to save energy at home using the same strategies students learned at school.

Action

The *Green Team* thought of fun facts to help students become aware of energy use. During the school year, many classrooms used half lights for teaching. Manual light switches were installed in many rooms, and teachers and students posted signs on light switches around campus reminding everyone to turn off lights and computers when they leave the room.

School Involvement

Warm Springs held a school wide assembly on energy conservation to motivate the students to save energy.

Custodial Involvement

The custodial staff checked the computers in the lab and classrooms, as well as TVs and AC units, on a nightly basis. The lead custodian reported to the *Green Team* leader when a teacher left items on regularly. The custodians were great about leaving reminders for staff who forgot to turn off items when leaving school for the day.

In addition to assisting with classroom energy saving, the custodians monitored Warm Springs' outdoor lighting to reduce the time the lights were on unnecessarily.

Period	CO2 saved	kWh saved	\$ saved	% saved
10/07-6/09	30.94 tons	61,886	\$9,970	6.7%

Mount Vernon Keeps Lights Off

Mount Vernon Elementary School
District: San Bernardino City Unified School District

Instruction

At Mount Vernon, several upper grade teachers created and taught lessons on energy conservation. A school-wide presentation and slide show was made to teach all Mount Vernon students about energy, the effects of energy use on our planet, and the importance of conserving our natural resources.

Action

The Green Team at Mount Vernon monitored lights in rooms, hallways, pods, bathrooms, and lunch rooms and made sure computers were turned off when not in use.

Residential & Community Involvement

The Green Team sent out fliers to the community with energy awareness information to share tips for saving energy and money with home and business owners. The Team also passed out energy saving CFL light bulbs to parents during conferences and encouraged everyone to replace an incandescent light in their home with the new bulb.

Custodial Involvement

Custodians helped the Green Schools efforts by checking and turning out lights when not in use throughout the year.

Period	CO2 saved	kWh saved	\$ saved	% saved
10/05-3/09	24.93 tons	49,860	\$7,912	20.4%

Urbita Earth Savers Save Energy

Urbita Elementary School
District: San Bernardino City Unified School District

Instruction

Urbita's Green Team made good use of the National Energy Education Development (NEED) resources to teach energy concepts, as well as doing some of their own lessons both in class and after school. 3rd grade teachers used chants, stories with pictures and charts to teach English language learners about types, sources, and transfer of energy.



Earth Savers in 2nd grade learned about renewable and non renewable energy sources using the NEED primary energy stories. Upper grade Earth Savers focused on forms of energy and energy sources using the presentation activities in the NEED energy kits.

Action

This year, Urbita trained new teachers in energy conservation behavior, including keeping doors closed to prevent wasted air conditioning. New Creative Before and Afterschool Programs for Success (CAPS) workers were reminded to check that all lights were turned off, and Earth Saver teachers checked that machines in the teachers' lounge were turned off before leaving for the day. The computer lab teacher reminded everyone to turn off their projectors when not being used. Lower grade Earth Savers patrolled the school to put classrooms on half lights, and kept the doors of all rooms closed with reminder magnets. One student teacher became so used to the dimmer lights that he noticed glare when they were inadvertently both turned on, and quickly ran over to turn one off. Students were used to flipping only one switch on in the morning and switching that off when leaving the classroom. The Earth Saver students were great about always reminding their teachers to turn off lights and appliances.

School Involvement

The Green Team at Urbita continued a campaign started last year to use half lights in the classrooms to help offset the increasing use of technology (especially digital projectors). The Earth Savers promoted the Energy Star pledge program to involve staff and the community in conservation efforts by pledging to take various actions to save energy at home and school.

Residential & Community Involvement

Upper grade Earth Savers went door to door in the neighborhood to talk about conservation and share energy saving tips. They passed out about 50 magnets with hand written conservation facts and tips.

At a school energy fair, the Green Team gave a presentation for the school and community on energy conservation. In addition, they created an energy conservation display for the Feldham Library in April for Earth Day.

Custodial Involvement

Urbita's custodial staff checked to make sure all lights were turned off when they did nightly checks to make sure classroom doors were locked.

* Having successfully completed the two-year Green Schools program, Urbita remains an active "Mentor" Green School, but no-longer receives energy tracking data.

Temple Involves the Whole School in Savings

Temple Learning Center Private School

Instruction

Temple Learning Center took advantage of a variety of resources ranging from their Local Project Leader, the Alliance to Save Energy website, and other internet sources to instruct students on the importance of energy conservation and how energy plays a key role in people's lives. The Green Team also researched current energy issues and controversies to share with students.

Action

Temple's Green Team provided support and motivational tools to get the students involved. They assigned students different jobs to assist with saving energy around the school, and awarded them for their efforts. Students learned how to communicate the message of energy conservation to their parents, other adults in their families, and the community.

School Involvement

The Green Team facilitated discussions among the various grade levels, created surveys, and used several motivational tools used to get the whole school involved and excited about saving energy!

Residential and Community Involvement

The Green Team wrote articles in Temple's monthly newsletter to communicate the message of energy savings to the community. Some parent meetings were designated as opportunities for everyone to share techniques for saving energy at home, work, and school.

Custodial Involvement

The custodial workers were a great help in saving energy. They used a checklist to identify and address energy waste concerns, such as leaving the door open when the air conditioning or heating is on.

+ This school is a multi-use facility, preventing accurate data collection; no baseline data has been established.

Get Caught Being Green by Abby Reinke's Green Squad

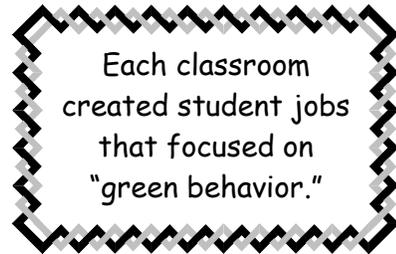
Abby Reinke Elementary School
District: Temecula Valley Unified School District

Instruction

Abby Reinke staff and students were educated about the importance of energy saving through staff meetings, assemblies, and class discussions. Games, a rap, and a story were used to convey the importance of "powering down".

Action

The Abby Reinke Green Team came up with an energy saving plan which included actions, such as closing doors, turning off lights, setting the temperature on the thermostat correctly, and unplugging televisions, pencil sharpeners, overhead projectors, etc. The Green Team created two "Green Things" to walk around the playground and school hallways with signs and handouts with ideas, information, and suggestions on how to turn Abby Reinke "green." The team also created a "Green Squad," a group of four students plus the two "Green Things" who checked classrooms once a month making sure all classrooms were compliant with the green guidelines. Three energy cards were created and displayed in classroom windows. Those who scored 9-10 points received a green card (Energy Saver). Those who scored 7-8 received a yellow card (Still in Progress), and those who scored 6 or below received a red card (Energy Hog). The classrooms that received green cards were put into a monthly drawing to win the "Green Classroom" award. The Green Team Leader visited all the classrooms and spoke with teachers about expectations and any potential problems that might prevent their classroom them from achieving the goals.



School Involvement

All students were encouraged to wear green on Thursdays. Each classroom created student jobs that focused on "green behavior" such as closing doors, turning off lights, checking thermostats, and unplugging classroom equipment, etc. as well as turning off and unplugging electronics before holidays.

Residential & Community Involvement

Abby Reinke sent home the energy message through the school newsletter, assemblies, energy saving signs, and word of mouth.

Custodial Involvement

The school custodian assisted Green Schools activities by checking all classroom lighting, replacing burned out bulbs, and shutting off unneeded lights. The custodian helped to answer questions and troubleshoot any technical and mechanical problems as needed.

Period	CO2 saved	kWh saved	\$ saved	% saved
9/08-6/09	43.91 tons	87,827	\$14,845	19.2%

Barnett Students Come Together to Save Energy

Ysabel Barnett Elementary School
District: Temecula Valley Unified School District

Instruction

Ysabel Barnett's fifth grade classes completed homework assignments about how they can "Stay Green" at home. Other classes made "Earth Day" posters with the theme of "GO GREEN!" to explore ideas for saving energy and caring for the environment.

Action

All classrooms had a "Green Team Monitor" who monitored classrooms and hallways to make sure they used half lighting and that the lights were turned off when not in use. Monitors also made sure doors were kept closed, electronics unplugged at night, and computers were put on "energy saver" mode. Hallways used natural lighting from skylights rather than electricity as much as possible. Fourth and fifth grade Student Council members held meetings to discuss energy saving ideas. At these meetings the Student Council came up with the idea to sponsor two energy contests during the year, and launched a school-wide "green ribbon" contest. Each day, students went through school and taped green ribbons on classroom doors that were conserving energy. Class winners were announced at the end of January. In addition, the Student Council wrote a letter to the district office asking for weather stripping on doors to be replaced.

School Involvement

Ysabel Barnett held a school wide "green day" every Wednesday, with the Principal's goal being to have everyone wearing green. Fourth and fifth graders worked in teams to visit the school over Christmas break. They checked each classroom to make sure things were unplugged, cleaned out and unplugged refrigerators, and put up a bulletin board in the front office promoting Green Schools.

The Green Team also made posters, facilitated energy saving contests between classrooms, and placed signs over all light switches as reminders to turn off the lights.

Residential & Community Involvement

Newsletters were distributed monthly to parents with energy saving tips and Green Schools updates. The principal announced weekly conservation reminders on the Good Morning Message. Ysabel Barnett also developed a checklist for "home energy savings" to post on the school website for parents' information.

Custodial Involvement

The custodians helped to ensure all lights were off at the end of the day and that old light bulbs were replaced with energy efficient bulbs. The custodial staff also began to replace old weather stripping on doors.

Period	CO2 saved	kWh saved	\$ saved	% saved
9/08-6/09	215.80 tons	431,609	\$11,114	14.1%

Bella Vista Heeds Advice from Captain Conservation

Bella Vista Middle School
District: Temecula Valley Unified School District

Instruction

Bella Vista integrated energy conservation into instruction during "Hawk time!"

Action

The Green Team gave an energy use questionnaire to all staff to make them more aware of their consumption. The Team led Bella Vista students in performing an audit of the school and worked together to identify areas of potential savings. The Team posted signs to remind students and staff to turn lights off and shut down computers when not in use. They also designed a webpage of seasonal energy tips for the school website.

School Involvement

Bella Vista's Green Team developed the character "Captain Conservation" who discussed energy conservation on the morning announcements. Reminder signs on light switches promoted school-wide energy saving. For Earth Day, the Green Team got the entire school to sign an awareness pledge, and included Earth Day facts in the Morning Announcements. The Team also held school-wide contest to develop an energy poster for the school calendar.

Residential & Community Involvement

The Bella Vista Green Team sent home Earth Day pledges with the students that included tips on how to save energy in the home. Families were also given access to holiday saving tips posted on the school website.

Custodial Involvement

The custodian was a great help to the Green Team by providing access to places they needed to get to for the energy audit!

Period	CO2 saved	kWh saved	\$ saved	% saved
9/08-6/09	38.80 tons	77,605	\$11,925	12.8%

Chaparral Locates Energy Waste

Chaparral High School
District: Temecula Valley Unified School District

Instruction

At Chaparral High School, teachers took advantage of the Green Schools Instructional Resource Guide and lab applications from the AP Environmental Science textbook to inform students about energy. AP Environmental Science students studied several energy topics, including kilowatt hours, the creation of electrical energy, and alternative energy sources. AP Environmental Science students also conducted a survey of students and parents to determine how well Chaparral was saving energy, and to explore ways to be better energy savers at home, in school, and in the community at large.

Action

The Green Team at Chaparral created a volunteer Green Team group from the AP students. These students presented all the ideas they learned in class to the faculty, urging teachers to participate in the Green Schools Program with an emphasis on the rewards for the school, students, the staff, and to the community. They talked to teachers about cutting back on lighting, microwaves, and refrigerators. In addition, the Team worked with the facility manager to come up with a plan to cut back on lighting, heating/air conditioning when the school is not in use.

School Involvement

Students created a PowerPoint presentation and commercial that was shown on KPAW, the school's announcement channel. The commercial taught students and teachers where to look for energy waste, such as appliances left plugged in, and it urged everyone to unplug wherever possible. They even put little "please unplug" signs on all appliances in the office area as a reminder for staff. The Green Team made surveys to use in other classes and spoke to students about energy use.

Residential & Community Involvement

AP students took the energy conservation message home with them. They created an audit to conduct in their own homes and came up with ideas and a plan to reduce energy waste at home as well as at school. The Green Team made a two-part survey to determine current energy use, and whether the community could reduce its energy usage. The Green Team used information from the survey to calculate the carbon footprint community. Some of the ideas for becoming a greener community included: resetting thermostats, buying local produce, and driving less.

Custodial Involvement

The custodial staff was a huge help to the Green Team in their efforts to cut energy use at Chaparral. They removed appliances, turned down classroom thermostats, and set timers so that outdoor lighting only runs when the school is in use. They monitored open doors and windows during cooling times and put in work requests for filter changes, non-functioning A/C units, and timers.

Period	CO2 saved	kWh saved	\$ saved	% saved
9/08-6/09	9.27 tons	18,549	\$4,025	9.0%

Crowne Hill "Acts Out" Energy Savings

Crowne Hill Elementary School
District: Temecula Valley Unified School District

Instruction

The positive message of conservation permeates through the halls of Crowne Hill Elementary School. Crowne Hill teachers used lesson plans supplied by the Green Schools Instructional Resource Guide, many of which were posted on the office bulletin board. Starting with classroom instruction, teachers taught about the basics of energy and conservation.

Action

Green Team members patrolled through the school reminding students and faculty to turn down thermostats, and to shut down appliances and lights whenever possible. All teachers use half lighting during the school day and hallway lights were monitored and used only when necessary. Students were always on the lookout for open doors in hot or cold weather. The Green Team removed lights from vending machines and did a walk through the school to unplug appliances before breaks.

School Involvement

Crowne Hill's conservation mascot, the "Green King", did a number of comical conservation awareness skits on Crowne Hill TV and at Friday lineups. In the spring, students put on a musical assembly including the "Green King" in the production. The Green Team borrowed the popular idea of "Save a Dollar, Kill a Watt" from another school in the district. In this campaign, classrooms competed with each other to conserve energy. "Royal Greenies" monitored the behavior of classrooms and rewarded or warned doling out green bucks or red warning tickets. At the end of an allotted time period (generally 3 weeks), classrooms with the most green bucks received an award at the Flag Salute. The Green Team shared information and updates for the whole school, partly through

a Green Schools bulletin board.

Residential & Community Involvement

Parents and community members participated in all school-wide Green events, including the musical assembly and Flag Salutes. During the 900 Academic Performance Indicator celebration, parents and community members were invited to share in their success. The "Green King" and his royal greenies did a dance around the crowd and gave a speech about the importance of being green. During Friday Flag salutes, students were rewarded for car pooling each week, and family involvement in this effort was crucial. Friday Flag Salutes were also used as a time to educate parents by performing conservation skits that were entertaining for everyone.

Custodial Involvement

The custodian helped immensely by shutting down non-essential appliances such as TVs and VCRs, turning off lights, and unplugging appliances before school holidays. He also constantly monitored and maintained filters and light bulbs, and communicated with the maintenance facility in order to have repairs made and inefficient bulbs replaced to keep the school running efficiently.

Period	CO2 saved	kWh saved	\$ saved	% saved
9/08-6/09	18.98 tons	37,951	\$6,726	9.9%

Day Gets the District Involved in Energy Efficiency

Day Middle School

District: Temecula Valley Unified School District

Instruction

Students at Day Middle School read articles about the green movement to enhance their knowledge of energy efficiency. The Team and students shared energy saving tips on the Morning show to spark conversations about energy in the classroom.

Action

Students in the Energy Club at Day Middle School were active in Green Schools activities. They went to all sections of the campus to monitor and explain different aspects of saving energy. The Green Team informed teachers and students about light switches, thermostats, computers, coffee pots, refrigerators, and any electrical devices that were left on for no reason. The Green Team notified the principal and Temecula Valley Unified School District that Day Middle School was using energy for heat and air conditioning on weekends and holidays when no one was around. The District was also notified of malfunctioning light timers. The District promised to look into solutions for Day, and the principal welcomed the team's help in identifying these energy efficiencies.

School Involvement

The Green Team and students spread the message of conservation to the entire school with posters placed at every light switch. On the school morning show, they broadcasted energy tips and acknowledged staff members for lowering their energy use. The Team monitored hallways, classrooms, library, bathrooms, locker rooms, administrative offices, and the Multipurpose Room on a daily basis for energy wasters. They presented their findings at staff meetings. As a result, teachers started turning off lights before leaving their room and students and teachers alike began asking the Green Team for more advice.

Residential & Community Involvement

At home, students had conversations with their parents about energy use, asking about utility costs and household electricity bills.

Custodial Involvement

The custodian at Day worked with and encouraged the school's Green Team in efforts to save energy, reduce and reuse! He turned off classroom, workroom, library, and Multipurpose Room lights when not needed, he also turned off hallway lights at 3:30pm, and discussed dimming the lighting and reduced the overhead lighting during the school day. He also set timers for campus night time lighting systems, including lights in parking lots and entry ways.

Period	CO2 saved	kWh saved	\$ saved	% saved
9/08-6/09	16.45 tons	32,902	\$4,947	5.7%

French Valley's 120-Member Green Team Brings the Business Community into the Spring Energy Fair

**French Valley Elementary School
District: Temecula Valley Unified School District**

Instruction

The French Valley Green Team realized that in order to involve the entire school in the effort to be "Green", people needed to first understand what going green is all about. They sent emails to staff about "going green", the purpose of Green Schools, and how to use the Green Schools Instructional Resource Guide. They encouraged all staff to have conversations about energy use with each other and with their students. The Green Team, along with French Valley's principal, decided that the best approach to integrating energy into instruction was to make information available to all staff members and then allow each grade-level to determine the best way to proceed with their students. Each class has a poster of the top 3 ways to save energy in the room and has brainstormed more ways to increase energy savings next year.

Action

French Valley Elementary School developed a large Green Team. They sought out members from every grade level, as well as the principal, to make sure that all entities would be represented. Once the team was assembled, they broke into 5 groups to determine French Valley's goals. The Action Team conducted an energy use survey, developed an energy-saving poster for each classroom, and recruited and trained a student-centered weekly Power Patrol (PP). PP members were given special clipboards and badges to wear while on the job. An astounding 120 students expressed interest in participating and each one of them found a role within PP! Once a week, PP came through each class and checked off whether or not each room followed the "green guidelines." A teacher compiled the data and gave each classroom points for compliance. Each week, two classes were chosen to receive the award for cutting energy in their classrooms. The winners were announced at the Friday flag assembly, given a certificate, a pair of

enormous green scissors and a big cheer from the whole school. The teachers and students were happy to participate and really enjoyed being recognized for their green efforts. Next year the Action Team hopes to expand the Power Patrol routes to more than once a week, and increase the list to 5 energy savings items!

School Involvement

The School Involvement Team posted energy saving tips on the school website, created a *Go Green Award*, and developed a system for rewarding classes recognized by PP as being energy-savers which got the whole school excited about saving energy! The School Involvement Team also hosted a "wear green" day where students were encouraged to wear green. They also had a slogan contest among the students to generate slogans for future postings, campaigns and outreach initiatives. The top 3 slogan received awards at the Friday Flag Assembly.

Residential & Community Involvement

The Residential and Community Involvement Team (RCIT) at French Valley hosted a Spring Energy Fair including a student performance and representatives from Southern California Edison, Eastern Municipal Water District and a solar panel manufacturer. Each representative had a small display and handed out items for the kids and their families. The RCIT was pleased to see the green theme percolating through the fair and to see that kids were just as interested with learning as they were the fun activities. Even the representatives had a great time! The RCIT did a great job organizing the Fair which helped educate students, teachers and parents about energy use and showcased student achievements and professionals in energy related fields. After such a successful event, the Green Team plans on making the event bigger and better next year. In addition, the RCIT worked to link *Green Tips* on the school website with the PTA website, and helped make the school mascot, Wilbur, into a "greener" version of himself. Instead of red, white, and blue, he is now green! Every time French Valley did something "green," the RCIT signified it by using the green Wilbur.

Custodial Involvement

The Custodial Involvement Team was a wealth of energy information. The custodian provided all the knowledge related to the school's energy use that the Team needed and even pointed out some energy-hogs. He was a terrific source of information.

Overall, FVES was hard at work implementing a Green Schools Team that was conducive and productive in the school environment. From initial surveys and feedback, it was found that the school site is generally energy-efficient. French Valley is looking forward to the challenges ahead.

Period	CO2 saved	kWh saved	\$ saved	% saved
9/08-6/09	32.38 tons	64,765	\$11,702	15.0%

Watch Out for “Green Students on the Prowl”

Gardner Middle School
District: Temecula Valley Unified School District

Instruction

Gardner teachers used lessons from the *Green Schools Instructional Resource Guide* to connect energy and current curriculum topics.

Action

Teachers made a real effort to conserve energy whenever possible by unplugging anything not in use, using half lights in classrooms, and turning off lights in unoccupied rooms. The “Green Patrol” monitored staff by patrolling hallways and classrooms to ensure conservation efforts. “Green Students on the Prowl” cited teachers that left lights on unnecessarily and tried to get everyone to take energy saving action.



School Involvement

Green Patrol teams made posters reminding staff and students to conserve whenever possible and sent weekly reminders to teachers to turn off any and all electronic equipment when not in use, with a strong emphasis on completely shutting down all electronics on weekends and before long breaks.

Residential & Community Involvement

The weekly “Green Newsletter” was sent to parents containing facts about ecological concerns, humor, and tips on how to “Green” your life, home, office, and planet.

Custodial Involvement

The custodian made sure that all timers were properly adjusted to the season and double checked that all lights were off in unnecessary areas, such as closets and unused classrooms. He also monitored the air conditioning and heating systems.



Period	CO2 saved	kWh saved	\$ saved	% saved
9/08-6/09	42.14 tons	84,270	\$13,727	13.8%

Great Oak Makes Big Changes in Energy Use

Great Oak High School
District: Temecula Valley Unified School District

Instruction

Students at Great Oak were busy learning about energy efficiency year round. Science classes completed a two-week module on energy during which they learned about the misconceptions of energy use and the benefits of conservation efforts, such as using efficient light bulbs and turning off the lights. The Green Team facilitated two trainings for students, and all Earth science classes learned to audit classrooms using the Green Schools Tool Kit. Students conducted a full campus audit in all classrooms. AP Environmental Science classes learned about energy production, use and cost, and as a result students received high scores on assessments on energy production, usage, and efficiency topics. The AP students also applied their knowledge to calculate the energy cost per minute of various appliances.

Action

The Green Team took action at Great Oak by making sure that people turned off computers after use and turned off lights when leaving the room and at the end of the day rather than waiting for the automatic timer. Students made educational posters to hang and put "turn off the light" stickers in every classroom and office to remind staff to turn off lights when not in use. The team also asked staff to take home extra electronics. In response, 15 refrigerators, 3 microwaves, 2 radios and 1 TV/VCR were taken home.

School Involvement

The Green Team recommended that the school reduce lighting and shut doors to save energy. Thirty classrooms began to use less lighting and took advantage of natural light by opening the blinds. Several teachers found that their classes were calmer as a result of reduced lighting. The Green Team encouraged students

and teachers to save energy with daily announcements. They gave Green Team awards to "energy friendly" classrooms, and Energy Hog Certificates to "energy unfriendly" ones. They distributed Edison's Residential Energy guides to all staff and educated the school community on all aspects of energy conservation during Earth Week. Students who applied to become Green Team members were trained in auditing and energy management. The Green Team also distributed room audits sheets to each teacher so that they could conduct their own audits as a reminder to cut down on energy use.

Residential & Community Involvement

The Green Team worked hard to include parents in Great Oak's Green Schools Program.

Great Oak students made community service announcements on ways to save energy and included energy savings tips in the school newsletter that is sent home to parents. The Green Team invited families to attend Back to School Night where they received energy saving fliers. Environmental Science students conducted personal home energy audits and brainstormed changes they could make to conserve energy at home. If a Green Team member ran into families outside of school, they talked to them about easy things they could do to save on energy.

Custodial Involvement

The custodial staff shut off all electronics at the end of the day, covered the pool each night, decreased the amount of time parking lot lights were set to go on, and used low flow hoses for water cleaning. The day custodian prioritized repairs that affected energy use first.

Period	CO2 saved	kWh saved	\$ saved	% saved
9/08-6/09	115.37 tons	230,743	\$30,142	10.1%

Jackson Turns off Lights to Turn Up Savings

Jackson Elementary School
District: Temecula Valley Unified School District

Instruction

Classes at Jackson Elementary School held discussions about energy use and teachers encouraged students to use energy saving tips they had learned at home as well as in school.

Action

Thanks to the *Green Team*, teachers, students, and administrators learned to use half-lighting or natural lighting wherever possible, and to turn off the lights completely when the room was not in use. The child care facility started to turn off the heating and air conditioning systems when the building was vacant. Throughout the school, people used power strips and turned off electrical appliances at the surge protector when not in use.

School Involvement

The *Green Team* posted "Turn Off the Lights" on key light switches. The Team shared energy saving tips and *Green Schools* updates with the whole school through announcements at staff development meetings and Friday Assemblies. Energy saving tips and website links were posted on Jackson's website as well as bulletin boards around the school.

Residential & Community Involvement

Parents at Jackson received both general and student council generated newsletters with energy saving tips and *Green Schools* updates.

Custodial Involvement

Custodians were great energy savers by setting heating and air conditioning units to manual operation to prevent cycling when not in use. They also checked and maintained indoor and outdoor lights and shut down unused electrical appliances.

Period	CO2 saved	kWh saved	\$ saved	% saved
9/08-6/09	16.36 tons	32,720	\$5,289	9.4%

La Vorgna Efforts Make Lasting Changes

La Vorgna Elementary School
District: Temecula Valley Unified School District

Instruction

La Vorgna teachers created their own lessons to teach students about energy. Many teachers incorporated lessons into their Science curriculum and used daily activities or events to discuss ways in which students could decrease energy use.

Action

The Green Team asked both students and teachers to look for opportunities to save energy around the school. Teachers and students who found energy wasters asked them to change their behavior and provided them with options to reduce their usage. Lights in hallways were kept off unless absolutely necessary, as skylights could be used in most cases. Light bulbs in vending machines were removed; computers, non-essential equipment, and power strips were turned off.

School Involvement

The La Vorgna student council and the Green Team Leaders spoke to the entire school about the benefits of going green both at school and at home. Next school year, La Vorgna plans on starting the school year off on the right foot, getting things going early and sustaining their efforts!

Residential & Community Involvement

Students were asked to take an Energy Survey home as homework. This survey was used to assess students' home energy use and their ability to monitor and adjust accordingly. One class discussed ways to use less energy at home, such as turning off lights, using a single light at desks to eliminate wasted energy, and making sure to do only full loads of laundry. Some teachers also spoke with parents to brainstorm ways to help them conserve at home. Beginning in February, La Vorgna began including a section in their Newsletter about Energy Conservation and "going green," which got the word out to the community and to

the surrounding areas about the importance of saving energy.

Custodial Involvement

Before breaks, the custodian and Green Team members made an effort to make sure all unnecessary equipment was turned off. The custodian constantly spoke to teachers and other staff members about turning off lights when rooms are unoccupied. They also removed vending machines and other appliances when possible, removed the lights from vending machines, and made sure computers and other devices are shut down or unplugged each day. Many of La Vorna's successes were in large part due to the custodians' relentless efforts to keep staff, students, and parents on the right track. Each day the custodian walked the halls to eliminate wasted energy in classrooms, hallways, and in the office. He also discussed with staff and students how they could do simple things to help decrease the amount of energy being used.

Period	CO2 saved	kWh saved	\$ saved	% saved
9/08-6/09	23.74 tons	47,470	\$8,600	11.6%

Margarita Saves Energy with PRIDE

Margarita Middle School
District: Temecula Valley Unified School District

Instruction

Teachers at Margarita Middle School incorporated energy into their lesson plans in several ways. Science classes talked about energy conservation as part of the curriculum and other classes learned about energy basics, such as how to calculate kilowatt hours used for various appliances.

Action

The Green Team developed a PRIDE Group that led Green Schools activities at Margarita. PRIDE used the Green Schools Tool Kit to do an energy audit to identify ways the school could increase its energy efficiency. They collected data and presented the information to staff. Guest Speakers from Southern California Edison were invited on two occasions to speak to the PRIDE Group about energy conservation and ways students can help save at school and at home. Staff turned off lights, computers and monitors, and placed appliances in standby mode. A power strip donation drive was organized so that all staff may have power strips. Students created and distributed energy check lists for teachers as reminders to turn off computers, monitors, and lights when leaving the room. Students also policed classrooms to identify ways to conserve energy, and informed teachers by leaving notes in the classroom.

School Involvement

The Green Schools Team planned events to raise awareness and educate the student body about energy saving measures. They gave staff tips for energy conservation and showed a video they had made on energy conservation. The Green team also organized an energy conservation video contest for students and got everyone excited about the school's energy saving progress with the Energy Tracker. They distributed power strips to teachers and hosted a school wide "Blackout" Day. Morning Announcements and Green Facts provided daily energy

conservation tips to the entire school. Students were rewarded for conservation measures with incentives like a "Front of the Line" pass, or free lunch.

Residential & Community Involvement

The Green Team spread the energy conservation message to parents through emails and newsletters. The Team also wrote letters to Lowe's to ask for donations of items like powers strips and energy star appliances.

Custodial Involvement

The custodians and night crew monitored light use and made sure all the lights were off before leaving for the day.

Period	CO2 saved	kWh saved	\$ saved	% saved
9/08-6/09	36.51 tons	73,015	\$11,110	8.0%

Nicholas Valley's "Green Knight" Saves the Day

Nicholas Valley Elementary School
District: Temecula Valley Unified School District

Instruction

Teachers at Nicholas Valley Elementary took the initiative to develop their own lessons on energy, in addition to incorporating lessons from Time 4 Kids and National Geographic into classroom instruction.

Action

The Green Team at Nicholas Valley was immersed in Green Schools activities this year. They created Green Team Check List posters, and came up with the idea for an "Energy Star" to be in charge of monitoring each classroom's lighting, heating, and cooling, as well as for shutting doors and windows. The Green Team patrolled every Wednesday looking for ways classrooms could save more energy. They issued citations for energy wasters and recognized energy savers with "bucks." The Green Team also hung reminder posters strategically throughout the school and created monthly "Watt Up" awards that recognize teachers and classrooms that conserve energy. The appliances in the teacher's lounge were replaced with Energy Star appliances and use of the school laminator was reduced to only once a week.

School Involvement

The Green Team divided responsibility for Green Schools activities by each taking charge of an area of the school. Nicholas Valley took full advantage of its California weather by turning off all lights on sunny days and utilizing hallways with skylights. The Team also encouraged the school to adopt the motto, "Save a Buck, Kil-O-Watt" which translated into "bucks" at all electrical outlets and switches throughout the school. The Green Team created a Nicholas Valley Elementary School Green Knight Energy Project and piloted it in a school-wide assembly. The Green Knight Energy Team assisted with Friday Line ups and

Green Team Wednesdays. On Wednesdays, all students (and staff!) were encouraged to wear Green Knight Energy shirts, designed by the Green Team. The Team created a banner which was displayed outside on Wednesdays and inside the school building every day.

Residential & Community Involvement

The monthly Nicholas Valley newsletter was updated to include energy efficiency tips for families. Nicholas Valley partnered with a local high school to instruct students and teachers in energy conservation. The Green Team created links to the Green Knight Energy Project and the Alliance to Save Energy's website on the school's website to share valuable information with the school community. Students were encouraged to do a home energy audit and to post their findings on the school website. The Green Team also had an article published in the Press-Enterprise!

Custodial Involvement

The custodians at Nicholas Valley were actively involved in daily energy activities with the Green Team. They were responsible for monitoring light usage, doors, windows, and heating and cooling in hallways and classrooms. They adjusted timers for outside lights, depending on the season and times when facilities would be in use. The night crew also played an integral role in keeping energy use to a minimum. The district maintenance crew, Nicholas Valley's principal, and a Green Team Leader toured the school to complete an energy audit and learn more about the Green Schools program.

Period	CO2 saved	kWh saved	\$ saved	% saved
9/08-6/09	35.62 tons	71,243	\$14,750	16.0%

Paloma Saves with “Green Bulbs”

Paloma Elementary School
District: Temecula Valley Unified School District

Instruction

Paloma Elementary teachers incorporated learning about saving energy into their science classes. Some teachers taught students to do home energy audits and made report cards of energy use for students' individual families.

Action

The Green Team was responsible for turning all lights and power strips off at dismissal. They patrolled hallways and on random days turned off hallway lights and other electrical devices. The team monitored Paloma's progress and the resulting energy savings.

School Involvement

The Green Team tracked each classroom's energy use and gave out “Green Bulb” awards to the winning energy efficient class at every Friday Flag Assembly. If a class received 3 awards, they were able to choose an activity to do with the principal. Each class also had a rotating Green Leader who got to have lunch with the principal.

Residential & Community Involvement

Parents and community members received Green Schools information in the school newsletter. For students who did a home energy audit, families learned how much energy they used and how they could save energy at home. The families with the best reports got special recognition with Green Family Certificates.

Custodial Involvement

The custodian kept the school in check by monitoring hallway doors and lights.

Period	CO2 saved	kWh saved	\$ saved	% saved
9/08-6/09	16.57 tons	33,144	\$6,112	9.6%

Pauba Valley Students Become Expert Auditors

Pauba Valley Elementary School
District: Temecula Valley Unified School District

Instruction

Pauba Valley teachers used lessons from the *Green Schools Resource Guide* to integrate energy into classroom instruction. In math class, students used their graphing skills to make charts of class energy use, waste, and savings. They also made graphs of electricity use, using home dollar figures vs. months in use. Students participated in the Carbon Footprints activity on the internet. Several classes also discussed and made cause and effect charts for various energy problems and solutions.

Action

Students made shut off reminder stickers and placed them on light switches throughout the school. The Pauba Energy Patrol (PEP) conducted weekly audits using a checklist to determine if classes were wasting energy. They delivered the results of their patrols to teachers and made presentations for K-2 students to get everyone at the school on board with energy savings.

School Involvement

The Green Team promoted the motto, "Lights Off and Doors Closed." Students elected classmates to monitor lights and doors and made "draft worms" to reduce drafts under doors. Pauba Elementary also held a Spirit Day where everyone wore green to raise awareness about saving energy.

Residential & Community Involvement

The Green Team included energy tips, especially for holiday energy conservation, in the school newsletter and in letters sent home to families. Students and families signed an energy pledge and completed a survey of their energy use.

Custodial Involvement

The custodians revised the school's light schedule and checked weather stripping around the doors and windows. They made sure lights and thermostats were working properly, replaced light bulbs, and checked for air conditioning leaks. They also checked to make sure that lights and sprinklers were on properly set timers.

Period	CO2 saved	kWh saved	\$ saved	% saved
9/08-6/09	41.00 tons	82,004	\$15,054	21.7%

Rancho “Flips the Switch” on Energy Waste

Rancho Elementary School
District: Temecula Valley Unified School District

Instruction

Rancho Elementary teachers brought energy conservation and awareness into the classroom using lessons and activities. All teachers were given access to Energy Board classroom lessons and the *Green Schools Instructional Resource Guide*. Several Rancho teachers integrated energy saving lessons and concepts in science and math lessons, and many teachers assigned writing assignments on how to conserve energy.

Action

The *Green Team* placed “flip the switch” labels on all light switches in the school. Students on the *Green Team* and *Student Council* monitored school energy use and participation in energy saving measured through bi-weekly visits to each classroom to check for energy efficient choices.

School Involvement

The *Green Team* participated in Friday morning line-ups and assemblies to raise awareness of *Green Schools* activities. They also included energy saving tips on staff meeting agendas to reinforce the message of conservation for teachers. The *Character Counts* drama group performed a skit on energy conservation to get the entire student body excited about saving energy.

Residential & Community Involvement

All Rancho families received the Principal's monthly newsletter, which included energy conservation tips, reminders and *Green Schools* Updates. Residential Energy Guides from Southern California Edison were passed out at Staff Meetings.

Custodial Involvement

Rancho's school custodian played an active role in helping the school save energy. He monitored the entire campus, turned air conditioners in unused rooms to vacation mode and monitored classrooms to ensure that TVs, VCRs, DVD players, and other electrical appliances were turned off or unplugged. In addition, the custodian worked with student *Green Team* members to do walk through audits of the school and to properly use their audit checklists. He ensured that lights were turned off in unused buildings and rooms, and that all equipment was in good working order and at its most efficient.

Period	CO2 saved	kWh saved	\$ saved	% saved
9/08-6/09	19.05 tons	38,094	\$7,848	11.9%

Rancho Vista Tells Energy Waste to Take a Hike

Rancho Vista High School
District: Temecula Valley Unified School District

Instruction

Teachers at Rancho Vista integrated energy into their classes using the *Green Schools Instructional Resource Guide* and other lesson plans provided by the *Green Team*. Many teachers also chose to discuss conservation and to share energy saving tips with students during advisement periods.

Action

Rancho Vista's *Green Team* assessed the entire school site and the district office with the Local Project Leader as part of their *Green Schools* training. They identified energy saving possibilities and learned to use the Tool Kit. With their newly gained knowledge, the *Green Team* organized an energy patrol to encourage energy saving behaviors at school and to monitor the school's progress toward energy conservation. They also conducted walk-through energy audits of classrooms and offices, and performed a "technical" energy audit of the staff lunch and work room using the Tool Kit. After collecting data during the audits, the *Green Team* made recommendations to help Rancho save energy. The Energy Patrol Leader of the *Green Team* made sure the entire office stayed within the new guidelines by unplugging all equipment when not in use, creating signs to turn off lights in restrooms and the staff room. She encouraged teachers to use natural light (by opening blinds) instead of turning on the lights, to keep thermostat at 72 degrees, and keeping windows and doors closed to retain the heated or cooled air.

School Involvement

The *Green Team* made a presentation at a staff meeting and created an educational display on energy efficiency for the school. The Team initiated a "Friday Night Lights" club where students in each classroom spent a few extra

minutes at the end of the school day on Friday making sure everything was turned off in anticipation of the weekend. On Earth Day, the team distributed "Earth Day Everyday" brochures to students, teachers, and parents, and placed a "Go Green" message on the fence. Students made energy savings announcements during advisement period, and the Green Team sent weekly e-mails to staff reminding them to unplug and turn off equipment before leaving for the weekend and school holidays. In addition, all Rancho classrooms and offices have successfully switched over to half lighting!

Residential & Community Involvement

The Green Team published energy saving tips in the newsletter that went out to parents and posted energy saving tips on the school website. The Team made monthly "teleparent" phone messages to share energy saving tips and information they have learned about energy, the environment, and conservation.

Custodial Involvement

The custodial staff at Rancho Vista assisted with Green Schools activities by auditing thermostats in all classrooms. They worked with the district office to get all thermostats set up with a low of 72 and a high of 78. The custodians also made sure all lights were turned off at the end of the day, checked for classrooms that were over lit, and turned off outdoor, closet, storage, and mechanical areas lights when not needed.

Period	CO2 saved	kWh saved	\$ saved	% saved
9/08-6/09	19.50 tons	39,002	\$6,093	6.7%

Red Hawks Keep their Eyes on Savings

Red Hawk Elementary School
District: Temecula Valley Unified School District

Instruction

Red Hawk Elementary School's library took charge of bringing energy instruction to all students by hosting energy conservation lessons.

Action

The Green Team held an energy efficiency poster contest and featured the winning poster was on a Go Green t-shirt to be designed for next school year. The computer lab saved energy by using half lighting and turning off computers and printers each day. To save energy in hallways and classrooms, students and teachers ensured that doors remained closed, turned off power strips, and used natural light or half lights during the day. Student Teams used the Green Schools Tool Kit to measure the temperatures of large electronic equipment as well as the humidity in classrooms. They also checked classrooms at lunchtime to make sure all doors were kept closed and lights are turned off when rooms were empty. The Green Team started a policy to only use the laminator on Wednesdays and to unplug all microwaves daily.

School Involvement

The Green Team implemented an incentive program to award classrooms that were "caught" saving energy with Go Green tags. After a classroom received five tags, the students were rewarded with an opportunity to have Physical Education with the principal. At Friday morning line-ups, the Green Team made announcements and shared energy tips with students and parents. They also included tips in daily staff messages, and encouraged everyone to wear green on Thursdays as part of a weekly awareness initiative.

Residential & Community Involvement

The Green Team included energy conservation tips in the Parent Newsletters and home mailings. At the Fall Festival, representatives from Southern California Edison staffed an exhibit tent and shared energy conservation with students, teachers, families and administration.

Custodial Involvement

The custodial staff helped by reducing energy use through limited lighting. They also kept doors closed, used natural lighting where possible and made sure the air conditioning and heat were turned off on weekends and holidays.

Period	CO2 saved	kWh saved	\$ saved	% saved
9/08-6/09	10.11 tons	20,221	\$4,230	6.4%

Sparkman Spreads Green Messages through Capri Sun

Sparkman Elementary School
District: Temecula Valley Unified School District

Instruction

Teachers at Sparkman used lesson plans from the *Green Schools Instructional Resource Guide* to teach their classes about saving energy. Some classes did drawing or writing activities about energy, and many teachers read books about saving the environment to their classes. The school book fair featured many selections about going green, including one book written by students!

Action

The student Green Team consisted of 14 students from 3rd through 5th grade. The students researched different types of light bulbs and designed light switch plates and small energy saving signs to hang near the lights in each classroom. They also designed cards with green messages which they included in bags made from recycled Capri Sun pouches. Green Team students took monthly "walk-about" to turn off lights and computers that were not in use. They also took detailed notes on electricity waste and passed them on to teachers to help everyone learn how to save energy.

The students also enjoyed designing awards that they gave to classes who practiced good energy conservation measures. The student team met with energy consultants Rick Thomason and former Green Schools student Miles Ten Brinke to learn more about how electricity is generated and how to use the Green Schools Tool Kit. With Miles' help, the students conducted an energy audit using the tool kit and checked for electricity use, taking notes on where energy was wasted.



School Involvement

Each classroom at Sparkman was assigned an energy monitor to use of half lights whenever possible and to turn off lights when not needed. The Green Team posted a Green bulletin board a major hallway to showcase student energy conservation projects. Sparkman students were thrilled to get a visit from Thunder, the mascot of a local baseball team, who read to students and gave a presentation about going green.



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Residential & Community Involvement

The secretary at Sparkman included green tips in the monthly parent newsletter and the weekly staff bulletin. Students presented twice at school-wide assemblies, teaching other students, teachers, and parents ways to help save the environment by saving energy. The presentation reminded everyone to turn off surge protectors, computers, printers, monitors, speakers and other appliances at the end of the day, as well as to use half lighting whenever possible in order to save energy while improving student attention and test scores.

Custodial Involvement

The custodians at Sparkman were a great help to the team in saving energy. They removed lights from the vending machine, cleaned light fixtures to increase light output, swapped inefficient light bulbs throughout the school for energy-saving T-8's, and changed the air conditioning and heater filters. They also programmed thermostats to eliminate excessive heating or air conditioning. A timer was installed to turn off the air conditioner and heater in the multi-purpose after an hour of use.

Period	CO2 saved	kWh saved	\$ saved	% saved
9/08-6/09	27.96 tons	55,917	\$10,072	19.3%

Temecula Tigers Save Energy

Temecula Elementary School
District: Temecula Valley Unified School District

Instruction

Teachers at Temecula found the *Green Schools Instructional Resource Guide* very helpful in sparking ideas for integrating energy into the curriculum. Teachers also used many suggestions from the *Green Schools Fall Workshop*. In particular, Temecula loved the idea of a student energy monitor, and started the *Green Team Tigers*. Students brainstormed classroom energy saving tips and teachers created lessons to integrate energy into Math and Language Arts class. In Science classes, students learned about natural resources and how saving energy helps to preserve our limited supplies. Teachers also used websites to help engage students in energy savings and to share savings tips.

Action

The *Green Team* created a PowerPoint presentation to teach students places to look for energy waste and gave students the responsibility for being the eyes of the campus. Weekly *Green Tiger* awards were given to classrooms that demonstrated good energy conservation habits. The Student Council acted as the *Green Team Patrol* and sent energy alerts to classrooms to help remind people to save. The *Green Team* also created checkout sheets which they gave to teachers to ensure that everything was off before leaving for weekends and holidays. After a while, the kids started reminding the adults about saving energy!

School Involvement

Temecula Elementary had competitions to see which class saved the most energy each week. Each week at Friday Flag Salute, a classroom displaying excellent energy efficiency received a *Green Tiger* award for good energy conservation behavior.

Residential & Community Involvement

Temecula held school-wide assemblies every Friday which included students, teachers, parents and the community. At these meetings, the Green Team announced energy saving tips, reported on Temecula's progress in Green Schools, and acknowledged the weekly Green Tiger winners. Parents learned about energy through tips in the Newsletter and student reports from their classroom lessons. The school library was kept open on Tuesday nights for parents and students to access energy saving tips from the computer.

Custodial Involvement

The custodial staff made every effort to help save energy at Temecula Elementary. They set thermostats back, ensured that half lighting was used in hallways, and turned appliances off when not in use—especially on Fridays in preparation for the weekend. The custodians also made sure the water heaters were set to the correct temperature, and checked air conditioners and heaters for proper function. Custodians checked to make sure all classrooms were following Temecula's energy plan and let the Green Team know when they noticed energy being wasted.

Period	CO2 saved	kWh saved	\$ saved	% saved
9/08-6/09	29.29 tons	58,577	\$10,819	15.4%

Temecula Luiseno Finds Every Way to Save

Temecula Luiseno Elementary School
District: Temecula Valley Unified School District

Instruction

Temecula Luiseno enthusiastically introduced the Green Schools Program to the entire staff at a fall staff meeting. The Green Team displayed the Green Schools Instructional Resource Guide in the staff lounge so teachers could browse and copy lesson plans. As a result, teachers at all grade levels became interested and many taught lessons as part of the science curriculum. Third grade students put on a musical performance integrating energy conservation called "Save the Animals, Save the Earth."

Action

Each classroom posted signs next to light switches to remind students and staff to turn off the lights whenever possible. Most classrooms were able to keep 2 out of 3 light switches turned off all day! As an additional reminder, students put blue tape over two light switches in each classroom. The Green Team set all classroom thermostats back to 68-72 degrees. They also worked to dim lights in the staff lounge, front office, multi-purpose room, and hallways. Temecula Luiseno achieved huge savings by removing energy hogs on Fridays, the Green Team completely turned off vending machines, and before leaving for two weeks over spring break, teachers emptied and unplugged refrigerators in the staff lounge. Even the vending machine company got involved by removing lights from their vending machines!

School Involvement

The Green Team introduced the entire school to Green Schools at the Friday Flag Salute, and used this weekly opportunity to announce Temecula Luiseno's progress. The Green Team held a conservation-themed artwork contest and included the winning artwork in a calendar that they printed and distributed to

the school. Staff received reminders about Green Schools activities in their daily "In the Know" emails. The Green Team encouraged teachers and students to make their classrooms as energy conscious as possible by taking actions like switching off the lights whenever classrooms were unoccupied and closing classroom doors to stop drafts.

Residential & Community Involvement

Parents received news of the Green Schools Program along with energy conservation reminders in Temecula Luiseno's school newsletter, which was sent home to all families.

Custodial Involvement

The custodial staff at Temecula Luiseno was great in helping to save energy. Custodians assisted in monitoring all rooms throughout school. They made sure doors were kept closed, lights were off in vacant rooms, and all electronic equipment such as televisions and DVD players were unplugged when not in use. Custodians also assisted in conducting a walk-through of each room prior to spring break, unplugging electronic equipment in order to conserve energy. They also contacted the district maintenance department for additional conservation ideas. Way to go custodians!

Period	CO2 saved	kWh saved	\$ saved	% saved
9/08-6/09	28.68 tons	57,352	\$9,889	15.6%

Temecula Accelerates Savings

Temecula Middle School
District: Temecula Valley Unified School District

Instruction

Temecula Middle School students greatly enjoyed creating posters to promote energy saving practices on campus during their 8th period classes. Students shared ideas and brainstormed together to create inventive posters. Each class voted on the posters and submitted the winning poster to a school-wide contest during Earth Week.

Action

This year, Temecula Middle School began using only half lights during class time and no lights at lunch time. At the end of every school day, students and teachers turned off lights, computers, and printers. Students encouraged teachers to turn off their lights during lunch and whenever they were out of the classroom, and to keep the thermostat close to 78 on hot days and 68 on cold days. Students also checked to make sure vents were free of obstructions in all classrooms.

School Involvement

The Green Team created a Green Club of 24 students that spearheaded energy conservation at Temecula Middle School. They made a slide show for the morning announcements program to share environmental tips and Green Schools activities with staff and students. The Club also ran a contest for the classroom with the best conservation efforts. Students visited participating classrooms each period to assign energy saving points based on criteria including lights, computers, projectors and air conditioning. The winner was the art classroom! Plans for next year include assigning each student in the green club to the job of environmental liaison for two classrooms, working on improving the website, and outreaching to the community by writing newspaper articles for the Temecula Middle School Press and the Californian.

Residential & Community Involvement

Temecula Middle School posted the Eco Tip from each morning's announcements on the school website. The Green Team also created a separate Green Club website.

Custodial Involvement

The custodial staff at Temecula Middle School was a great asset to the Green Schools Program. They made sure that copiers and printers were turned off at the end of the school day, that lights were off in places with no activity. They installed energy efficient light bulbs outside all portable classrooms, reset the timers for the night lighting system, and opened all skylights in classrooms. In addition, the custodians reduced the A/C to teaching hours only.

From the principal's newsletter:

Eco Tip for the Home!

Check your furnace and AC filters regularly. Cleaning or replacing filters once a month during periods of high use will insure proper air flow, promote better health, increase efficiency, and save money too.

(View more energy saving tips at <http://www.squidoo.com/home-energy#module2520332>)

Period	CO2 saved	kWh saved	\$ saved	% saved
9/08-6/09	15.13 tons	30,263	\$5,496	4.5%

Temecula Valley AP Environmental Students Shine

Temecula Valley High School
District: Temecula Valley Unified School District

Instruction

Temecula Valley High School AP Environmental Science students got a thorough grounding in energy use and efficiency topics during a two week unit supplemented with labs and reading assignments from the Green Schools Program. Before the AP exam, many worked in study teams to review energy efficiency and math problems concerning energy use.

Action

Student volunteers from Earth Club teamed up with Environmental Science classes for a training on using the Green Schools Tool Kit. The students then conducted surveys of classroom lighting, heating, and cooling to identify appropriate and inappropriate uses of energy. The Earth Club held several workshops to brainstorm energy saving tips and AP students created a comprehensive list of potential energy saving steps which they presented to the school principal. The computer teacher now simultaneously turns off all computers when the lab is not in use. The Green Team coordinated with custodial, computer lab, lunch prep staff, and the PE department to save energy outside of classrooms.

School Involvement

The Green Schools Team and Earth Club broadcast frequent school-wide announcements regarding saving energy, especially focusing on days before weekends and holidays. They also distributed a checklist of electronic items to turn off or unplug before breaks. Earth Club made and posted signs as reminders for teachers and fellow students to watch energy use more carefully, and computer students placed "Flip-It" signs by light switches throughout the school to remind everyone to turn off the lights. Students personally contacted staff to request that they not leave doors and windows open while running

heaters or air conditioners. The Green Team invited the Local Project Leader to speak to the entire staff about ways to increase their energy efficiency, and inspired the whole school with updates on Temecula Valley's energy saving progress.

Residential & Community Involvement

With help from the computer teacher, the Green Team set up a webpage with links to internet resources promoting energy awareness and listing energy costs for lights and electrical appliances. At the end of the year, AP students conducted energy surveys of their households which they shared with their families.

Custodial Involvement

Temecula Valley High School's custodians played a big part in successful energy savings. Thanks to their efforts, parking lot lighting was reduced by one third! They also ensured that lighting in gymnasiums and bathrooms was turned off overnight, kept entry doors closed, fixed broken doors, adjusted outdoor security light timers to match sunset and sunrise, and replaced old and non-functioning ballasts.

Period	CO2 saved	kWh saved	\$ saved	% saved
9/08-6/09	132.46 tons	264,929	\$36,626	11.6%

Tony Tobin Put Ideas into Green Basket

Tony Tobin Elementary School
District: Temecula Valley Unified School District

Instruction

Tony Tobin Elementary School students worked with their teachers to learn and practice energy saving behaviors. Tony Tobin's Librarian also read books about being green to students.

Action

The Green Team at Tony Tobin included students from various grade levels who worked with Team members on Green Schools activities. They created posters to advertise ways to be green and gave each class a "5 Ways to be Green" checklist of energy saving ideas. Students and teachers were great about turning off lights, closing doors when the air conditioning or heat was on, and shutting off computers at the end of the day.

School Involvement

The Green Team conducted patrols of the hallways twice a month using the Green Schools Walk-Through audit checklist. All classrooms that fulfilled the "5 Ways to be Green" checklist were given "Green Classroom" logos. The Green Team started a "Green Basket" for classes to share new and inventive energy saving ideas and read the contents each week at the Friday Flag salute. The Green Team also held a school-wide poster contest to encourage energy conservation.

Residential & Community Involvement

The Green Team gave students a list of home energy saving tips before Winter Break to share with family and friends. The Green Team also continually encouraged parents to come in and share ideas about ways to be green. Every week, Tony Tobin's principal sent home a parent/community newsletter entitled

"Tidbits" which included a "Green Corner" with energy facts and efficiency tips. The Green Team used the "Tele-parent" phone-tree system and occasional emails to remind school staff and community members to share exciting Green Schools news, reminders and energy saving tips.

Custodial Involvement

The custodial staff emphasized saving energy around the school by replacing inefficient light bulbs, installing power strips, and checking for water faucet and air vent leaks. They also helped spread the word by adding a "Go Green" sign to the school Marquee.

Period	CO2 saved	kWh saved	\$ saved	% saved
9/08-6/09	40.22 tons	80,431	\$13,155	17.7%

Vail Watches “Watts”

Vail Elementary School
District: Temecula Valley Unified School District

Instruction

Vail's Green Team shared the *Green Schools Resource Guide* and other energy efficiency lesson plans and resources with teachers by making them available for checkout in the library. Classes discussed the importance of keeping doors closed and turning off lights computers, monitors, TV, and power strips off—both at school and at home!

Action

The Green Team recruited hardworking student Ambassadors to remind classrooms to use half lights, to shut down computers and to turn off all lights when leaving rooms. First graders assigned light monitors to check bathroom lights as well. When the weather was warm, students advised classrooms to close the blinds and not to prop open doors. As a result of prioritizing energy savings, Vail's computer lab reduced operating hours, and teachers limited laminator use to four hours a day during core use time. In addition, Vail reduced multipurpose room lighting to one third, and used natural light in hallways.

School Involvement

The Green Team recruited students to be “Watt Watchers” who used energy kits and made posters to hang around the school. The Team also set up an energy-saving themed display case outside the library. They sent emails to staff with energy saving tips and suggestions for changes Vail could make to save energy. Students acted in commercials written by the Green Team for VVTV, Vail's morning show, to promote lightless holiday decorations and the use of power strips to make turning off appliances easier. The Team posted energy use charts in the staff lounge and library, and used the library to hold Green Ambassador meetings. At the meetings, Ambassadors learned about the Green

Schools program, many ways to save energy, and other information to share with their classrooms. Student Ambassadors also promoted an "energy savers" poster contest and awarded the winner with a "Power off!" t-shirt. At the end of the school year, VVTV aired student films and a PowerPoint about saving energy.

Residential & Community Involvement

The Green Team used Energy Tracker to monitor Vail's energy use and shared monthly kilowatt usage with the School Site Council. Vail achieved a 15% reduction in costs over the school year! The Team also published letters in the PTA monthly newsletter and made announcements at School Talent Night to publicize Vail's energy saving activities and how much money the school had saved.

Custodial Involvement

Custodians were a great help to Vail's Green Schools efforts this year. The night custodial staff kept energy savings at the forefront by readjusting the timers for parking lot and outside lighting to match seasonal conditions, making sure not to prop doors open or leave the lights on, using the multipurpose room lighting for specific purposes only, reducing laminator use hours, and keeping portable outside lighting off.

Period	CO2 saved	kWh saved	\$ saved	% saved
9/08-6/09	35.60 tons	71,209	\$12,928	19.1%

Vail Ranch Teams up for Big Energy Savings

Vail Ranch Middle School
District: Temecula Valley Unified School District

Instruction

Vail Ranch students learned about energy and conservation in many ways this year. Students used Southern California Edison's Residential Energy Guide as a homework activity and completed several lessons from the handbook. In addition to class time instruction, a consultant with Evolutionary Environs came to Vail Ranch and spoke to 70 Green Team students about energy and the environment. Teachers collaborated with feeder schools to have students learn and take action together!

Action

Students on Vail's Green Team created a logo and the mission statement: *The purpose of the Green Team is to conserve energy through education, action, and involvement.* The Team assigned officers, set official meeting times, and formed various committees including Friday Check, Publicity-Video, Publicity-Print, and Education-Research. The Friday Check Committee encouraged teachers to turn off lights, open blinds to use natural light whenever possible, to use half lights when needed, to turn off electronic devices when not in use, and to unplug electronics and keep doors closed wherever possible. Representatives from the Alliance to Save Energy and the Temecula Valley Unified School District Facilities also visited Vail Ranch to speak with, train and conduct a partial energy audit with students.



School Involvement

Students at Vail Ranch were actively involved in Green Schools activities. The Publicity-Print Committee of the Green Team created and posted sign with energy saving tips as well as updated the school website. The Education-Research



Committee researched ways to educate the school population. The Publicity-Video committee worked with Vail Ranch's video class and the Education-Research Committee to create a "Green Team Fun Fact" presentation which they shared with the entire school during weekly video announcements. Students also created a PowerPoint presentation about conserving energy and presented it at a faculty meeting. Each month, students participated in

energy audits and evaluated energy bills with staff. They also sponsored a monthly "Turn off the lights during PRIDE" event which encouraged teachers to turn off lights during a 30-minute enrichment period. Green Team students organized a Green Day where they had an informational table to educate teachers and fellow students, and planned an energy conservation week to encourage continued conservation over the summer break!

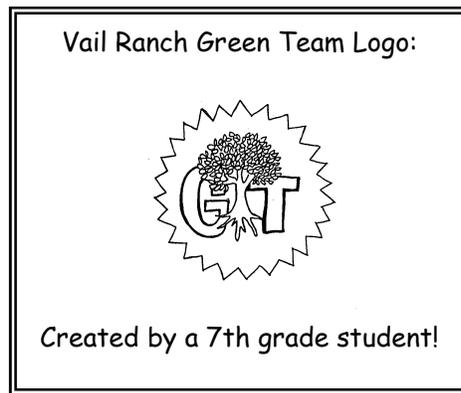
Residential & Community Involvement

The Green Team really reached out to the community to get more people involved. They hosted a March Restaurant Fundraiser where students gave community members information about energy conservation, sent home Green Team bookmarks, and students worked with their families at home on the Southern California Edison's Residential Energy Guide. The Green Team also created a webpage with a link from Vail Ranch's school website including the Green Team logo, videos, tips to conserve energy, and links to additional resources.

Custodial Involvement

The Green Team and the custodial staff were in constant communication to improve energy efficiency at Vail Ranch. They worked on proper heating and air conditioning temperatures in the classroom, made sure electronic appliances were

turned off at the end of the day, made sure leaking windows and faucets were fixed, made sure bathroom lights and water were off when no one was in the room, and replaced old light bulbs with energy efficient ones where possible.



Period	CO2 saved	kWh saved	\$ saved	% saved
9/08-6/09	29.94 tons	59,876	\$9,483	9.1%

Vintage Hills Saves with Energy Ambassadors

Vintage Hills Elementary School
District: Temecula Valley Unified School District

Instruction

Classes at Vintage Hills did many lessons from the *Green Schools Instructional Resource Guide*, as well as the California Department of Conservation and Think Earth, a kid-friendly program emphasizing natural resources awareness and conservation. Some classes wrote poems and essays about the importance of saving energy.

Action

The Green Team posted turn-off reminder signs on the light switches in all classrooms, and labeled the light switch to turn off for the most effective use of half lighting. The Team also emailed Tips for Efficient School Energy Shut Down to staff before holiday breaks and posted conservation tips on the staff room white board.

School Involvement

Students shared the Green Schools Program with the whole school by making and putting up posters in hallways and classrooms. The Green Team made announcements at school-wide assemblies and on TV reminding everyone to close doors, turn off lights and unplug electronics, especially before leaving for the weekend or school holidays. "Energy Ambassadors" who had been trained to use the Green Schools Tool Kit, visited each classroom, identified energy waste with the help of the Tool Kit, and demonstrated to classes ways they could reduce energy usage. Over one hundred students joined the Green Team!

Residential & Community Involvement

Students received homework assignments encouraging them to discuss energy use and conservation with their families.

Custodial Involvement

The custodian made a huge effort to turn off unnecessary lights throughout the school. He adjusted thermostats to automatically shut off at 3:30pm, and set those in infrequently used rooms to "manual." In areas that could use natural light, he took lights off of sensors so they would not go on unnecessarily.

Period	CO2 saved	kWh saved	\$ saved	% saved
9/08-6/09	37.89 tons	75,779	\$13,516	19.6%

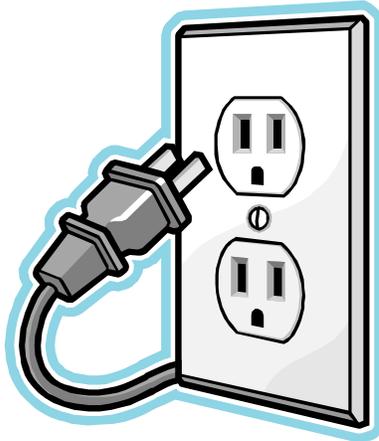
Comprehensive Table of Energy Savings

	School	Period	CO ₂ saved	kWh saved	\$ saved	% saved
Alta Loma	Carnelian Elementary*##	9/06-5/09	4.83 tons	9,656	\$1,511	3.5%
Hesperia Unified School District	Cypress Academy	10/07-6/09	60.70 tons	121,390	\$20,193	29.7%
	Eucalyptus Elementary	10/07-6/09	30.03 tons	60,068	\$10,609	18.7%
	Hesperia High	10/07-6/09	61.93 tons	123,868	\$19,593	7.9%
	Hollyvale Elementary	10/07-6/09	29.86 tons	59,717	\$9,822	17.6%
	Joshua Circle Elementary	10/07-6/09	18.87 tons	37,749	\$6,795	11.4%
	Juniper Elementary	10/07-6/09	17.94 tons	35,876	\$6,226	10.8%
	Lime Street Elementary	10/07-6/09	6.93 tons	13,866	\$2,318	3.6%
	Mesa Grande Elementary	10/07-6/09	20.10 tons	40,133	\$7,550	44.8%
	Mesquite Trails Elementary	10/07-6/09	3.91 tons	7,826	\$1,157	2.5%
	Ranchero Middle	10/07-6/09	66.12 tons	132,242	\$19,696	12.8%
	Shadow Ridge High#	01/04-6/09	9.79 tons	19,578	\$2,729	6.0%
	Sultana High#	9/07-6/09	67.83 tons	135,659	\$19,048	7.8%
	Topaz Elementary#	9/07-6/09	17.20 tons	34,394	\$6,114	12.1%
	Murrieta Unified School District	Alta Murrieta Elementary	10/07-6/09	14.41 tons	28,826	\$5,877
Antelope Hills Elementary		10/07-6/09	38.57 tons	77,131	\$13,518	18.0%
Avaxat Elementary		10/07-6/09	28.56 tons	57,125	\$19,818	17.3%
Cole Canyon Elementary		10/07-6/09	26.33 tons	52,651	\$10,018	10.6%
Creekside High		10/07-6/09	17.03 tons	34,060	\$7,692	19.3%
Daniel Buchanan Elementary		10/07-6/09	6.87 tons	13,748	\$2,498	2.6%
E Hale Curran Elementary		10/07-6/09	39.75 tons	79,499	\$14,250	17.5%
Lisa J. Mails Elementary		10/07-6/09	21.02 tons	42,048	\$6,689	7.9%
Monte Vista Elementary		10/07-6/09	45.90 tons	91,811	\$17,313	19.5%
Murrieta Elementary		10/07-6/09	43.47 tons	86,939	\$16,714	22.8%
Murrieta Valley High		10/07-6/09	4.77 tons	9,536	\$1,621	0.5%
Rail Ranch Elementary		10/07-6/09	41.63 tons	83,258	\$15,164	18.7%
Shivela Middle		10/07-6/09	46.21 tons	92,418	\$17,119	13.1%

Comprehensive Table of Energy Savings (Cont.)

	School	Period	CO ₂ saved	kWh saved	\$ saved	% saved
Murrieta	Thompson Elementary	10/07-6/09	19.13 tons	38,256	\$9,032	5.1%
	Tovashal Elementary	10/07-6/09	4.49 tons	8,970	\$1,764	2.5%
	Vista Murrieta School	10/07-6/09	152.75 tons	305,499	\$43,061	11.8%
San Bernar- dino	Warm Springs Middle	10/07-6/09	30.94 tons	61,886	\$9,970	6.7%
	Mount Vernon Elementary#	10/05-3/09	24.93 tons	49,860	\$7,912	20.4%
Private	Urbita Elementary#	11/07-6/09	N/A	N/A	N/A	N/A
	Temple Learning Center*	11/07-6/09	N/A	N/A	N/A	N/A
Temecula Valley Unified School District	Abby Reinke Elementary	9/08-6/09	43.91 tons	87,827	\$14,845	19.2%
	Barnett Elementary	9/08-6/09	215.80 tons	431,609	\$11,114	14.1%
	Chaparral High	9/08-6/09	9.27 tons	18,549	\$4,025	9.0%
	Crowne Hill Elementary	9/08-6/09	18.98 tons	37,951	\$6,726	9.9%
	Day Middle	9/08-6/09	16.45 tons	32,902	\$4,937	5.7%
	French Valley Elementary	9/08-6/09	32.38 tons	64,765	\$11,702	15.0%
	Gardner Middle	9/08-6/09	42.14 tons	84,270	\$13,727	13.8%
	Great Oak High	9/08-6/09	101.87 tons	230,743	\$30,142	10.1%
	Jackson Elementary	9/08-6/09	16.36 tons	32,720	\$5,289	9.4%
	La Vorgna Elementary	9/08-6/09	23.74 tons	47,470	\$8,600	11.6%
	Margarita Middle	9/08-6/09	36.51 tons	73,015	\$11,110	8.0%
	Nicholas Valley Elementary	9/08-6/09	35.62 tons	71,243	\$14,750	16.0%
	Paloma Elementary	9/08-6/09	16.57 tons	33,144	\$6,112	9.6%
	Pauba Valley Elementary	9/08-6/09	41.00 tons	82,004	\$15,054	21.7%
	Rancho Elementary	9/08-6/09	19.05 tons	38,094	\$7,848	11.9%
Rancho Vista High	9/08-6/09	19.50 tons	39,002	\$6,093	6.7%	

A Note on Energy-Saving Data



Electricity savings are calculated against a weather-normalized baseline of electricity use that is adjusted for changes in square footage, retrofits, and other factors that affect energy load at each school. Although most of the schools show a positive energy savings, a few schools show a negative savings. Utility Management Services provides a well-documented model of possible savings based on actual utility bills, but it cannot account for all the differences between one year and the next. We can safely assume that

Green Schools activities do not increase energy use; therefore, we believe that the negative savings are due to factors unrelated to Green Schools and that the negative number might have been even higher were it not for the efforts of our Green Schools teams.

Notes:

* The Alta Loma Unified School District completed major lighting retrofits and upgrades in a number of its schools, which resulted in higher-than-usual energy savings. While Green Schools Program activities helped influence these changes, the retrofits required a significant financial investment by the District. As such, these energy savings cannot be fully attributed to Green Schools, which primarily are achieved through behavior and operations changes.

** Schools have undergone changes that have raised their energy use despite participating in the Green Schools program.

Having successfully completed the two-year Green Schools program, these schools remain active "Mentor" Green Schools (not included in the total and average % energy savings).

+ This school is a multi-use facility preventing accurate data collection; no baseline data has been established.