



*geela*



2010 Governor's Environmental and Economic Leadership Awards

*geeta*  
2010





GOVERNOR ARNOLD SCHWARZENEGGER

November 15, 2010

## *Governor's Environmental and Economic Leadership Awards*

It is my pleasure to welcome California's business leaders here today as we honor and celebrate your achievements in environmentally sustainable business practices.

As Governor, it's been my goal to protect and preserve California's precious natural resources whose uses have such significant implications for both our environment and economy. I am happy to know that I have some fantastic partners in the business community working towards this same goal.

We in California consistently set the standards for the rest of country when it comes to environmentally friendly innovations and policies, and with your cutting-edge practices and strategies, we can continue to lead the nation into a greener future.

I thank each and every one of you for your hard work and contributions to California. Your accomplishments and actions continue to prove many wrong – that you can go green while also growing your bottom line.

Congratulations on your 2010 Governor's Environmental and Economic Leadership Award and best wishes for every future success. Thank you for keeping California golden – and green! – and for all the great work that you are doing for green technology and the environment.

Sincerely,

A handwritten signature in black ink, appearing to read "Arnold Schwarzenegger".

Arnold Schwarzenegger



## Welcome

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The Governor's Environmental and Economic Leadership Award is California's most prestigious environmental honor, given only to Californians who exemplify exceptional leadership for protecting and enhancing the environment while at the same time promoting economic growth.

### Welcome and Introductions

#### Award Categories:

- Climate Change
- Children's Environmental Education
- Sustainable Practices or Facilities
- Ecosystem and Watershed Stewardship
- Environmental and Economic Partnerships
- Comprehensive Land-Use Planning
- Technological and Market Innovation
- Sustainable Communities
- Enhanced Environmental and Economic Leadership
- Waste Reduction



## Alameda Municipal Power

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### From Trash to Treasure: Landfill-Gas-to-Energy Utilization

*Expanding renewable resources and saving consumers money*

Since 2001, Alameda Municipal Power (AMP) has been aggressively seeking to add renewable resources to its energy portfolio, particularly from methane capture at landfills. Today, AMP takes power from more than four landfill-gas-to-energy plants for renewable power for consumers. Additionally, they add to the local economy through the design, construction and operation of energy recovery systems.

Methane is a potent greenhouse gas traditionally collected and flared off, polluting the air. But AMP's landfill-gas-to-energy projects effectively prevent 1 million metric tons of carbon dioxide from entering our air annually.

AMP's leadership of its power generation portfolio consists of more than 77 percent total renewable resources from landfill-to-gas-to-energy; geothermal; hydroelectric; wind; landfill gas and solar. As a result of its renewable portfolio, AMP provides electricity to Alameda residents that is 20 to 25 percent lower than electricity rates in surrounding communities.

Because of AMP's commitment, the City of Alameda ranks highest in the state for use of renewable resources and among the lowest in the state for greenhouse gas emissions.

**"... leads all utilities in the State in the use of renewable resources."**

**Ann L. McCormick, P.E.**

**Vice President**

**Alameda Public Utilities Board**



## Green by Design

*Creating clean, green technology*

Apple has set a new industry standard for the elimination of toxic chemicals, energy efficiency, greenhouse gas reporting, and product recyclability. The company's investment in innovations to reduce its carbon footprint has produced the most energy efficient family of products on the market.

In 2009, the Cupertino-based company of more than 34,000 employees made a successful transition to improve its products' environmental performance. Apple eliminated more than 11,000 miles of polyvinyl chloride (PVC), 70 pounds of mercury, 7.5 million pounds of lead, and 18,000 pounds of arsenic.

Apple is committed to becoming the first company to eliminate brominated flame retardants (BFRs) and PVC from all equipment, servers, desktops, portables, displays and handheld devices, and has made its PVC-free materials available to its competitors to promote the quest for sustainable products in the entire electronics sector.

Recognizing that 91 percent of its greenhouse gas emissions come from production and consumer use, the company has focused on material selection and product design to minimize its carbon footprint. For instance, all laptops have mercury-free, light-emitting diode (LED) displays that consume 30 percent less power than conventional display products. In addition, the 21.5-inch iMac desktop computer has a 40 percent smaller carbon footprint than its first generation predecessor. Thus, Apple cuts its emissions by more than 800,000 metric tons for every 1 million new iMacs it sells.

In addition, Apple is the first company to make the massive transition from flame retardant plastics to a highly recyclable aluminum and high-grade glass across a wide range of products, helping to achieve a 90 percent material recycling rate per product.

**"... a sustained effort to both minimize waste and maximize reutilization of surplus high tech equipment, materials and supplies."**

**Frank Yaghmaie**  
**Director, Adjunct Professor**  
**Northern California Nanotechnology**  
**Center, University of California, Davis**



**WARNING**

ROTATING SHAFTS ARE DANGEROUS



**LNG FUELED VEHICLE**

**NEXGEN**  
LNG FUEL SYSTEM  
MODEL: \_\_\_\_\_ DATE: \_\_\_\_\_  
SERIAL # \_\_\_\_\_ MOUNT: \_\_\_\_\_  
MAX W: \_\_\_\_\_ T.W.: \_\_\_\_\_  
G VOL: \_\_\_\_\_

**LNG  
230 psi  
MAX**

**F1**

## California Cartage Company

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### Liquefied Natural Gas Truck Project

#### *Greening our trade corridors*

Long Beach Mayor Bob Foster called California Cartage Company “a true leader in corporate stewardship whose efforts will continue to resonate throughout the community for years to come.” And as a leader in alternative fuel technologies, California Cartage Company partnered with City National Bank to provide hundreds of its independent owners and operators the opportunity to drive Liquefied Natural Gas (LNG) trucks with the cleanest technology available at a significant savings. Their innovative model provides truckers with a lease-to-own option that maximizes the \$32,000 federal tax credit for natural gas trucks. The company worked to ensure that it was passed on to the owners and was combined with grant funding from the California Air Resources Board, South Coast Air Quality Management District, and the Ports of Long Beach and Los Angeles to offset the cost of new trucks.

As a result, California Cartage drivers are now able to drive the cleanest trucks available at the lowest payment possible to contractors. The net truck payment for these new LNG trucks is significantly lower than new diesel trucks, putting more money into contractors’ pockets.

Each LNG truck reduces greenhouse gas emissions by 23 percent compared to most modern diesel trucks. That’s 13.9 million metric tons per year of reduced emissions. And at full deployment of 400 trucks, California Cartage will replace 1.95 million gallons of diesel with domestically produced LNG each year.

**“... affordable and sustainable for independent owner-operators who might not otherwise have been able to afford a new clean truck.”**

**Barry Wallerstein  
Executive Officer  
South Coast Air Quality Management  
District**



## California Sustainable Winegrowing Alliance

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### Sustainable Winegrowing Program

*Fostering sustainable winemaking practices*

As a 2004 GEELA winner, the California Sustainable Winegrowing Alliance (CSWA) has continued its commitment to sustainable winegrowing practices throughout the region. Since 2002, they've been providing a Code of Sustainable Winegrowing Practices Workbook to educate the industry about sustainable and economical practices. CSWA voluntarily collects self-assessment data from growers and winemakers to measure and document the adoption of sustainable winegrowing practices. Since 2002, they have conducted more than 200 self-assessment workshops, where more than 1,500 vintners and growers have participated in assessing their operations against 277 sustainable winegrowing criteria.

Furthermore, they have held more than 190 free, educational workshops for integrated pest management and energy efficiency, and are developing performance measures on water use, energy use, greenhouse gas emissions and pesticide use to help them set industry-wide reduction targets.

**"... a groundbreaking effort that increases the environmental, economic and social sustainability of California's wine industry."**

**Gerald Secundy  
President/CEO  
California Council for Environmental  
and Economic Balance**



## Earth Friendly Products

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### Sustainable products and business practices

#### *Greening its products and facilities*

Earth Friendly Products (EFP) “produces the purest, most effective green cleaners in the United States,” according to Garden Grove Mayor William Dalton. Not only does EFP create environmentally-friendly cleaning products, but it also manufactures them in a green building designed by a LEED-certified (Leadership in Energy and Environmental Design) architect to take advantage of sustainable business practices. Since its renovation in January 2010, EFP has instituted green practices throughout its building that have reduced waste by 73 percent. The company produces more than 60 percent of its electricity from solar panels and has reduced its carbon emissions. As a leader in its industry, EFP’s goal is to achieve 100 percent waste diversion by 2011 and zero emissions by 2015.

EFP also raised the stakes with who they do business with. By expecting its vendors to implement sustainable practices, they are creating a lifecycle of green, sustainable products. EFP requires its vendors to complete self-assessment questionnaires on green practices and chooses to do business with those that meet and exceed its environmental expectations, giving preference to green companies.

**“... EFP has become a leading manufacturer in green cleaning products and is considered a great asset to the community, local economy and environment.”**

**Loretta Sanchez  
Member of Congress**



# Where does Electricity come from?

TURBINE GENERATOR

CONDENSER COOLING WATER AND LAKE OR COOLING TOWERS

POWER LINES

SAVE MONEY, SAVE THE PLANET  
SHIFT AND SAVE ENERGY

BOARD

Number Sense

Place value  
Comparing numbers

PEAK

PEAK

PEAK

PEAK

PEAK



## The Energy Coalition

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### PEAK Student Energy Actions Program

*Promoting energy action and knowledge*

As part of the Energy Coalition's efforts, PEAK is a standards-based education curriculum that seeks to empower students to manage and reduce their energy consumption at home, at school and in their communities. Targeted towards middle and elementary school students, the PEAK programs and activities provide hands-on lessons that teach the science of energy conversion, its impacts on the environment and how its usage affects our everyday pocket books.

The PEAK program is "second to none" according to a teacher at Hearst Elementary School and inspires behavior changes as it relates to real life. The program encourages students to live sustainably and teaches lifelong lessons of environmental preservation.

Since 2006, the PEAK program has reached more than 600 teachers at more than 130 schools throughout California. PEAK partners with local utilities to teach residents about energy saving programs being offered, and in 2008 its Northern California office conducted 30 school energy audits, resulting in \$188,000 provided to local schools for energy retrofits.

This comprehensive program starts in the classroom where it teaches our future generations, and has expanded to include resources to local communities and money saving tips for schools.

**"... extraordinary science education program."**

**Kathy Marvin  
Teacher  
Sierra Vista Middle School**



## First Community Housing

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### Casa Feliz Studios

*Building sustainable communities for the disabled*

Casa Feliz Studios replaces an aging apartment complex in Santa Clara with a LEED (Leadership in Energy and Environmental Design) Gold-certified green housing complex that serves low-income residents and those who are developmentally disabled. The project is home to the Silicon Valley's first ever green vegetated roof top that provides wildlife habitat and storm water retention. The rooftop cools the top floor by decreasing the sun's reflection and increasing the performance of solar panels and insulation for a longer roof life.

Furthermore, Casa Feliz Studios is a sustainable project that decreases energy usage, conserves water and utilizes drought-resistant plants and shade providing landscape. The complex also diverted 90 percent of construction waste, and assessed the lifecycle costs and benefits of greening the project.

**"... illustrates that affordable, multi-family green building can be built ..."**

**Leslye Krutko**  
**Director of Housing**  
**City of San Jose**



## High Mountain Fuels, LLC

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### Altamont Bio-LNG Facility

*Converting landfill gas to renewable fuels*

Considered the world's largest, commercial-scale, landfill gas to liquefied natural gas (LNG) production plant, the Altamont Bio-LNG has been producing up to 13,000 gallons of clean renewable Bio-LNG per day by purifying and liquefying landfill gas from the natural decomposition of organic waste from the Altamont Landfill.

The Altamont Bio-LNG Facility generates enough fuel for 485 of Waste Management's LNG collection vehicles throughout California and displaces 2.5 million gallons of diesel fuel annually.

Bio-LNG is an ultra-low carbon fuel recognized by the Air Resources Board as one of the cleanest transportation fuels under the Low Carbon Fuel Standard. Not only does it produce a viable low carbon fuel, but it also demonstrates the technical and economic viability of the product.

**"This project exemplifies innovation, creativity and collaboration ..."**

**Jack Broadbent**  
Executive Officer  
Bay Area Air Quality Management  
District



## **Renesas Electronics America, Inc.**

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### **Renesas Diversion Program**

#### *Reducing, reusing and recycling*

Renesas Electronics America, Inc. (REA) is proving that waste reduction pays off. From reduced waste, to water re-use and reduced emissions, REA Roseville is giving new meaning to the terms reduce, re-use and recycle in business and in the community.

In 2009, REA successfully diverted 89 percent of its solid waste from landfills, resulting in a cost savings of \$43,605 in disposal fees and nearly \$85,000 in revenue through its various recycling programs. Its waste reduction efforts prevented 996 metric tons of carbon dioxide from being emitted into the atmosphere.

Furthermore, REA organizes and sponsors community e-waste recycling days where residents can bring unwanted electronics to the facility, as well as sensitive documents that need to be shredded and recycled.

Their recycling activities have also benefitted the local community, as they “gift” materials and supplies to the University of California, Davis and other local companies that re-use them to produce other products at a cost savings of millions of dollars.

REA Roseville also implemented a water re-use project that diverts reverse osmosis reject water from the city sewers to the facility’s cooling towers, saving 15.6 million gallons of water per year and saving \$72,000 annually.

And the company has worked with U.S. EPA to voluntarily reduce 30 percent of perfluorocarbon emissions.

**“... a sustained effort to both minimize waste and maximize reutilization of surplus high tech equipment, materials and supplies.”**

**Frank Yaghmaie  
Director, Adjunct Professor  
Northern California Nanotechnology  
Center, University of California, Davis**



## San Diego Padres PETCO Park

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### The San Diego Padres Go Green Initiative

#### *Reducing waste and making a profit*

In 2008, PETCO Park, the home of the San Diego Padres, established the “Padres Go Green” initiative to build support and participation in 20 sustainable programs amongst the ballpark’s 2,000 workers and 1.6 million fans annually.

In 2009, through outreach and education, the ballpark diverted roughly 575 tons of materials from the landfill—a record breaking 49 percent recycling rate—and eliminated trash hauling fees by \$65,000. This translated into removing 176 vehicles from the road, preserving six acres of standing forest, powering the equivalent of 87 homes, and saving 110,000 gallons of gasoline.

Recycling practices include composting the food scraps, which are then offered as compost to the community and reused in the ballpark’s landscaping. In addition, a universal waste drop-off center collects items such as dry cell batteries, ink cartridges, cell phones, plastic bags, wine corks and compact fluorescent bulbs.

Despite the current economic climate, PETCO Park continued to invest in its commitment to sustainable practices by partnering with Waste Management. The recycling kiosks and solar-powered compactors engaged the park community while reducing PETCO Park’s carbon footprint. Throughout 2009, the environmental partnership continued to expand as additional recycling avenues were discovered and implemented, including “waste-to-energy” solutions that power the natural gas vehicles that provide daily service to the ballpark.

PETCO Park has served as a leader in the challenging waste streams produced by a major league ballpark and has far exceeded the city’s expectations.

**“PETCO Park has impressed the city with its environmental best practices and is a true example of a good citizen.”**

**Ken Prue**  
Recycling Program Manager  
San Diego



UPY  
2005

GS14B

LOW EMISSIONS DIESEL  
GENSET SWITCHER  
ENGINES OF CHANGE

DANGER  
HIGH  
VOLTAGE

DANGER  
HIGH  
VOLTAGE

DANGER  
HIGH  
VOLTAGE

DANGER  
HIGH  
VOLTAGE

EMERGENCY FUEL  
CUT-OFF

FUEL  
FILL

UP  
PA

BEFORE STARTING ENGINE  
CHECK FOR OIL  
LEVELS TO PREVENT  
DAMAGE TO ENGINE

## Union Pacific Railroad

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### Ultra-Low Emitting Genset Locomotive Technology

#### *Reducing train emissions*

Union Pacific Railroad's (UP) leadership led to the introduction in California of the ultra-low emitting Genset switcher locomotives.

In 2004, UP invested an initial \$1 million to construct a prototype Genset locomotive, a first in the U.S. railroad industry. This type of locomotive is powered by two 700-horsepower, ultra-low emission, off-road diesel engines that are connected to electric generators, thus the name "Generator-Set," or "Genset" switcher. Genset locomotives operate in rail yards to sort rail cars by destination for outbound trains and are significantly quieter than conventional locomotives.

The Genset yard switcher reduces nitrous oxide emissions by 80 percent and particulate matter by 90 percent, while using as much as 30 percent less fuel compared to current older switching locomotives. The fuel savings also translate into a 30 percent reduction in greenhouse gases.

UP then purchased the initial 60 Genset switchers, \$1.5 million each, for the South Coast area followed by six Genset locomotives in Roseville. The Placer County Air Pollution District reports that Genset switchers have been a major contributor to reducing emissions by 23 percent in 2007 and 39 percent in 2008. To date, UP has acquired 165 Genset locomotives for use company-wide.

UP's commitment to the first Genset locomotives led other railroads in California to acquire Genset switchers as well, such as BNSF Railway, Modesto & Empire Traction Co., California Northern Railroad, among others.

Genset locomotives are used in rail yards often located in economically disadvantaged communities to help reduce diesel particulate matter pollution.

**"... providing emission benefits, lower fuel needs and greenhouse gas savings associated with burning less fuel."**

**Larry Greene**  
**Executive Director**  
**Sacramento Metropolitan Air Quality**  
**Management District**



## Venida Packing Company

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### Solar Farm

*An exceptional model for agribusiness*

Venida Packing Company is a grower, packer and shipper of California tree fruit located in the Central Valley.

Because of the amount of energy needed to pack, cool and store fruit, Venida installed 8 acres of solar panels to offset 100 percent of their yearly power usage. The project is automated and provides online tracking and monitoring that provides instant results of the project's efficiency.

As a leader in sustainable farming practices, Venida is the first company in Tulare County that has a modern system to maximize the amount of power provided without taking valuable farmland out of production.

The 6-month project provided more than 20,000 man hours of local employment and will generate income in 10 years. The self-funded project will offset more than 45,389 tons of CO<sub>2</sub> emissions in the first 25 years of the project and serves as an agribusiness model to the rest of the Central Valley.

Venida is certainly making a difference not only for themselves but also for the overall health of the community.

**"Venida Packing's Solar Farm plays a significant part in reducing our greenhouse gas emissions in the State of California."**

**Holli Tamas  
President  
Granite Bay Energy**



## Wakeland Housing and Development Corporation

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### Los Vecinos Apartments

*Creating affordable, green communities*

Wakeland Housing and Development Corporation successfully built the most efficient LEED (Leadership in Energy and Environmental Design) Platinum affordable housing, multi-family development in Chula Vista, California. The development features zero energy homes with 100 percent solar use and saves more than 1 million gallons of water annually. The project used energy star appliances, high efficiency lighting, low-use water fixtures and 100 percent drought tolerant landscaping and irrigation systems.

The project set a new standard not only for affordable housing, but also for green design, and bridged the renewable energy divide for low-income renters.

The project not only reduces water and energy usage but most importantly save tenants \$700-\$1,100 annually in utility costs.

During construction of the projects, developers diverted 84 percent of construction waste and used recycled and environmentally sustainable materials for 42 low-income families.

**"The City of Chula Vista is proud of the difference Los Vecinos makes to the environment, the neighborhood and to its residents."**

**Cheryl Cox  
Mayor, Chula Vista**





A special thank you to the following entities and individuals who helped make this year's Awards program a success:

California Business, Transportation and Housing Agency  
California Department of Food and Agriculture  
California Environmental Protection Agency  
California Labor and Workforce Development Agency  
California Natural Resources Agency  
California State and Consumer Services Agency  
California Department of Resources Recycling and Recovery  
Department of Toxic Substances Control  
California State Parks Foundation  
Award Evaluators  
Governors' Global Climate Summit 3 Volunteers



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