



UNIVERSITY OF CALIFORNIA, IRVINE

“GREEN” ACTIONS UNDERWAY OR COMPLETED

*"I recognize the right and duty of this generation
to develop and use our natural resources,
but I do not recognize the right to waste them,
or to rob by wasteful use,
the generations that come after us."*

— Theodore Roosevelt, 1900

UC IRVINE “GREEN” ACTIONS UNDERWAY OR COMPLETED JULY 2011

This outline summarizes UC Irvine’s track record of “green” research, planning, construction, infrastructure, and management practices. Resource planning and management actions summarized below complement UC Irvine’s fundamental and applied research and engineering programs, which are extensive, interdisciplinary, robust, and growing in many areas of energy, atmospheric, water, and biotic sustainability. UC Irvine has a tradition of collaboration that extends from the laboratory to day-to-day campus operations.

The actions outlined below fall into 18 categories:

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| 1. <i>Research: Centers and Academic Programs</i> | 10. <i>Emissions Reduction</i> |
| 2. <i>Green Buildings</i> | 11. <i>Green IT</i> |
| 3. <i>Renewable Energy</i> | 12. <i>Sustainability Education</i> |
| 4. <i>More Students Living on Campus</i> | 13. <i>Wastestream Reduction</i> |
| 5. <i>Transportation</i> | 14. <i>Water Conservation</i> |
| 6. <i>Combined Heat and Power</i> | 15. <i>Surface Water Quality</i> |
| 7. <i>Landscape and Open Space Management</i> | 16. <i>Green Procurement</i> |
| 8. <i>Density Management</i> | 17. <i>Dining Services</i> |
| 9. <i>Housing Sustainability Program</i> | 18. <i>Recognition and Awards</i> |

1.0 Research: Centers and Academic Programs

1.1 [Advanced Power & Energy Program \(APEP\)](#)

APEP is an umbrella organization that addresses the broad utilization of energy resources and the emerging nexus of electric power generation, infrastructure, transportation, water resources, and the environment. The program encompasses six key foci of the world’s energy future: fuel cell science and technology; combustion science and technology; biomass and fossil fuel systems; distributed generation and combined cooling, heating, and power; sustainable transportation, and sustainable energy.

1.2 [Atmospheric Integrated Research for Understanding Chemistry at Interfaces \(AirUCI\)](#)

The goal of AirUCI is to develop a comprehensive understanding of reactions at the air-water interface of atmospheric droplets and water on surfaces, and their importance in the atmosphere across a broad range of spatial and temporal scales.

1.3 [California Institute for Telecommunications and Information Technology \(Calit2\)](#)

Calit2 conducts research in nine areas, one of which is environmental and civil infrastructure.

- 1.4 [Center for Global Environmental Change Research \(CGECR\)](#)
The CGECR was founded to provide a link between investigators doing research related to global environmental change at UC Irvine, other University of California campuses, and UC-run laboratories.
- 1.5 [Center for Hydrometeorology and Remote Sensing \(CHRS\)](#)
This center conducts research aiming to advance the knowledge of the water and energy cycle at scales ranging from the local watersheds to continental scales. Our main focus is land-surface hydrologic processes, their spatial and temporal variability, and the use of remote sensing information and computer models to improve both our understanding of these processes and our ability to model them in order to predict the impacts natural and anthropogenic variabilities on water resources.
- 1.6 [Center for Occupational and Environmental Health \(COEH\)](#)
The COEH's mission is to improve occupational and environmental health in the region we serve. The Center extends its services to government, industry, schools, health professionals, and the general public. We strive to improve the region's awareness of occupational and environmental hazards and to prevent injury and disease.
- 1.7 [Center for Global Peace and Conflict Studies \(CGPACS\)](#)
CGPACS is a multidisciplinary program dedicated to promoting scholarly, student, and public understanding of international peace and conflict. CGPACS affiliated faculty (approximately 80 faculty and 80 graduate students from eight schools across campus), guest speakers, and affiliated graduate students work to understand the linkage among military/strategic, economic/environmental, and cultural/normative motives, processes, and consequences of both peace and conflict. In particular, graduate student and faculty research projects connecting questions of environmental sustainability (in the form of sustainable global cities, effects of immigration, nuclear non-proliferation, control and quality of water resources, forms of humanitarian aid, and other issues) to the maintenance of global peace and the reduction of conflict are increasingly critical to the mission of CGPACS.
- 1.8 [Center for Unconventional Security Affairs \(CUSA\)](#)
CUSA aims to address the human and environmental security challenges of the 21st century by involving multiple perspectives from the social and natural sciences, as well as political, community and business leaders. CUSA's research on sustainability brings together academics and practitioners to consider a range of challenges related to improving the sustainability of water, energy, food, transportation and security systems. In 2010, the Center launched a Sustainability Seminar Series that continues today. The following subjects have been or will be featured:
 - “Knowledge and Environmental Policy”

- “The Psychology of Sustainability”
- “Transboundary Environmental Policy and Institutions along International Borders”
- “Who Controls Water? Conflict, Cooperation, and ‘Soft’ Power”
- “State Capacity, Economic Crisis and Economic Reform: Implications for Sustainability”
- “The Politics of Sustainability”
- “Water in the Balance: The Human Fingerprint on Global Freshwater Availability as Seen from Space”
- “Sustainability and Conflict in the Developing World”
- “Crisis to Sustainability: Lessons from Africa”
- “Water Crisis ... Tool for Diplomacy and Platform for Progress”
- “Greening through Information Technology”
- “Re-booting Sustainable Development: Why it Hasn’t Worked and What to do About It”
- “Ethics and Sustainability”
- “Sustainability and the University”
- “Business and Sustainability”
- “Sustainability and Food Security”
- “Political Rhetoric or Policy Reality? Tracking Trends in Environment, Peace, and Security”

1.9 Civil and Environmental Engineering Department

Research in the department is focused on three primary applications: environmental processes, hydrology and water resources structural engineering, and transportation systems engineering.

1.10 Developmental Biology Center

One of core research themes addressed by this center is environmental toxicology. It is becoming increasingly clear that organisms are exposed to huge amounts of chemicals that can mimic, disrupt or affect biological systems. Many activities in the industrialized world affect basic developmental processes in a wide range of species. Environmental insults can be categorized as those that cause mutations in DNA (leading to cancer, birth defects and other problems) and those that affect basic developmental processes by mimicking or disrupting natural hormones and other signaling molecules (leading to developmental and homeostatic abnormalities ranging from reduced fertility to psychiatric and nervous system disorders to wholesale extinction of affected populations). Faculty affiliated with this center conduct pioneering research on the leading edge of this field.

1.11 Earth System Science Department

Understanding global environmental issues such as global warming, stratospheric ozone depletion and worldwide air pollution requires the cooperation of scientists across many disciplines. Global change is projected to accelerate through the 21st century and will impact the ecosystems that

preserve the habitability of the planet. Founded in 1991, the Department of Earth System Science focuses on the atmosphere, land and oceans, how these interact as a system, and how the Earth will change over a human lifetime.

1.12 **Ecology and Evolutionary Biology Department**

Research conducted under the aegis of this department addresses evolutionary genetics, ecology and evolutionary ecology, global biological change, and comparative and evolutionary physiology.

1.13 **Environment Institute: Global Change, Energy, and Sustainable Resources**

In 2008, UC Irvine announced the creation of an institute that will bring together scientists from across campus to conduct research specific to these areas, including how climate change will alter public health and welfare; whether people will accept the living patterns of green cities; and how new energy technologies will impact the environment. Michael Prather, professor of Earth system science and Fred Kavli chair, is the Institute's inaugural director.

1.14 **Green Materials Program**

UC Irvine has been chosen to lead other California universities in a Green Materials Program that will develop nontoxic alternatives to products used in everyday life.

1.15 **Institute of Transportation Studies (ITS)**

Research at ITS covers a broad spectrum of transportation issues related to air quality, such as analysis and simulation of urban traffic networks; transportation/land use interactions, particularly those which encourage alternative modes of travel; planning and evaluation of advanced public transit systems; and energy and environmental issues, particularly demand for alternative fuels. ITS is also part of the University of California Transportation Center, one of 10 federally designated centers for transportation research and education, and a member of the Council of University Transportation Centers.

1.16 **National Fuel Cell Research Center (NFCRC)**

The NFCRC was dedicated in 1998 by the U.S. Department of Energy and the California Energy Commission and is affiliated with the Advanced Power and Energy Program at UC Irvine. It is primarily focused on stationary fuel cell systems and their roles as distributed generators; central power plants, portable power devices; auxiliary power technology to provide electricity for lighting, heating, and ventilation for aircraft, ships, locomotives, and long-distance trucks; and for providing local heating, cooling and hydrogen for transportation fueling and industrial feedstock. The center also deploys numerous fuel cell vehicles to address hydrogen generation and the interface between stationary fuel cell technology and a potential hydrogen economy. The NFCRC leads the research aspect of the Irvine Smart Grid Demonstration (ISGD) project, has developed technology leading to the demonstration of a tri-generation

renewable energy, and operates the UC Irvine Hydrogen Fueling Station, the most heavily used publicly accessible hydrogen station in the world.

1.17 [Newkirk Center for Science and Society](#)

Established in May 2001, the Newkirk Center for Science and Society's goals are to improve science's response to community needs and to increase the effective uses of scientific results for the benefit of society. Seventy emerging leaders from 20 different countries convened at UC Irvine in July 2011 in a forum to discuss human-induced changes to the environment, with a focus on the world's marine and freshwater resources. Represented countries include China, Thailand, South Korea, Canada, the United States, Mexico, Costa Rica, Ecuador, Brazil, the Netherlands, Spain, Italy, Russia, Kyrgyzstan, Egypt, Israel, India, Norway, Nigeria, and South Africa.

1.18 [School of Biological Sciences' Center for Environmental Biology](#)

The center, established in March 2010, aims to link academic research with ecosystem management and stewardship of natural resources, and to educate the next generation of environmental biologists and stewards.

1.19 [The School of Physical Sciences' Center for Solar Energy](#)

The School of Physical Sciences' Center for Solar Energy supports research aimed at increasing our understanding of how light from the sun can be converted into electrical and chemical energy. Currently, solar energy provides an insignificant fraction (less than 1 percent) of our overall energy needs and fundamental scientific breakthroughs will be required to change this status quo. Research within the Center for Solar Energy will seek to identify and solve "bottlenecks" in fundamental science that impede our ability to carry out these energy conversion processes efficiently.

1.20 [Steele Burnand Anza-Borrego Desert Research Center](#)

Located on the border of the Anza-Borrego Desert State Park, California's largest, the new center will facilitate desert field research for biologists, astronomers, anthropologists and others. It is part of the University of California's Natural Reserve System.

1.21 [Urban Water Research Center](#)

The UWRC promotes a comprehensive and transdisciplinary approach to water quality and quantity management in an urban environment with a diverse, rapidly growing population. The UWRC serves utilities and policymakers through scientific research, providing resources for long-term planning, training the next generation of water resource professionals. The UWRC also serves the broader community by enhancing the efficient use of water resources, promoting public health, and fostering environmental quality. More than 80 faculty members from multiple departments pursue research that addresses water supply; global climate change impacts on water resources and water quality planning; ecosystem health and especially wetlands; water demand

using economic tools; wastewater treatment and reuse; and institutional, legal, and public policy issues related to urban water management.

2.0 Green Buildings

- 2.1 UC Irvine tendered a prototype *campuswide* Leadership in Energy and Environmental Design (LEED) submittal, working with the U.S. Green Building Council (USGBC) to streamline and economize the process for *all* universities nationwide.
- 2.2 UC Irvine drafted a widely circulated Labs21 discussion paper: “Building Greener Buildings with No Increase in Budget.”
- 2.3 Eight buildings at UC Irvine bear the U.S. Green Building Council’s (LEED) gold rating for new construction, the most at any U.S. campus.
- 2.4 Sixteen UC Irvine design professionals have completed LEED accreditation.
- 2.5 Palo Verde II Student Apartments, the first UC Irvine project submitted to the USGBC program, was the first LEED gold awarded in Orange County.
- 2.6 UC Irvine’s 287,000-square-foot social hub is the state’s first student center to receive LEED gold certification.
- 2.7 Office space within UC Irvine’s Environment Institute received a LEED gold award for commercial interiors.
- 2.8 UC Irvine registered Croul Hall as its first building to undergo certification under the LEED for Existing Building program.

3.0 Renewable Energy

- 3.1 Eleven rooftops at UC Irvine collectively house more than 4,800 solar panels that will produce more than 24 million kilowatt hours of electricity (offsetting the equivalent of 25.6 million pounds of CO₂) over 20 years.
- 3.2 The National Fuel Cell Research Center leads the research aspect of the Irvine Smart Grid Demonstration program, a U.S. Department of Energy-funded project led by Southern California Edison. The venture involves the installation and monitoring of smart circuits, renewable energy, charging stations, and energy storage devices to model energy distribution systems involving significant renewable energy sources. Forty faculty/staff homes in UC Irvine’s University Hills neighborhood will serve as test models for zero-net-energy homes, each outfitted to varying degrees with smart technologies that include photovoltaic systems, battery storage, electric vehicle charging, smart appliances, and cutting-edge energy monitoring and control systems.

4.0 More Students Living on Campus

- 4.1 UC Irvine has raised its student residential housing percentage to 50 percent (for both graduate students and undergraduates) and is constructing housing to keep pace with this increased goal. Transforming commuters into residents is one of the greenest actions a campus can undertake.

- 4.2 UC Irvine has one of the highest percentages of students living on campus among public universities.

5.0 Transportation

- 5.1 UC Irvine's Sustainable Transportation Program is the largest and most successful – in terms of reduced single-occupant automobile ridership – of any in the South Coast Air Quality Management District.
- 5.2 UC Irvine's 2010 average vehicle ridership (AVR) of 1.87 per vehicle is among the highest among large employers in Orange County and the urban portions of Los Angeles, Riverside and San Bernardino counties.
- 5.3 UC Irvine's sustainable transportation program annually save \$14.5 million in fuel, vehicle, and parking costs; 23 million Vehicle Miles Traveled (VMT); and 10,800 metric tons of greenhouse gas emissions.
- 5.4 UC Irvine's free shuttle service provides more than 1.87 million passenger trips a year for students, faculty and staff.
- 5.5 Campus buses run on B20, a fuel blend made up of 20 percent biodiesel and 80 percent petroleum.
- 5.6 UC Irvine's idling policy requires campus bus drivers waiting at a curb to turn off the engine after 30 seconds, thus reducing fuel consumption and greenhouse gas emissions.
- 5.7 Students living in targeted apartment complexes cannot purchase commuter parking permits. This population walks, rides bicycles, or uses the campus shuttle system, which also serves the Park West and Newport/Balboa Island apartments.
- 5.8 The no-commuter-permit radius will be expanded as new housing facilities are made available to students on, or adjacent to, campus.
- 5.9 Student commuters are restricted to specific zoned parking areas. The environmental benefits of this policy are significant. Zoning reduces traffic congestion and fosters a more pedestrian-amenable experience on campus.
- 5.10 Facilities Management is working with the California Department of General Services (DGS) and UC Irvine Purchasing to test plug-in hybrid electric vehicle technology. The three-year program is being conducted by DGS and the California Air Resources Board (CARB). The vehicles are Toyota Prius with a California Air Resources Board-approved modification adding a lithium-ion battery from A123 Systems/Hymotion. This increases the vehicle's ability to operate exclusively on battery power and achieve as much as 100 miles per gallon. They also can run up to 30 miles on electricity alone.
- 5.11 In 2007-08, seven intersections on campus underwent signal optimization, reducing campus carbon dioxide emissions by 39 tons annually.
- 5.12 Parking and Transportation Services worked with the OCTA to provide transportation from the Tustin Metrolink Station directly to UC Irvine.
- 5.13 Transportation alternatives are incentivized through generous subsidies.
- 5.14 All students, faculty, and staff are provided access to Orange County Transportation Authority buses through the University Pass program at greatly reduced rates; the 2010-2011 reduction is 77 percent.

- 5.15 UC Irvine's carshare program provides members of the campus community with convenient access to a fleet of modern, low-emission vehicles at a reasonable hourly rate, increasing usage of alternative transportation, and removing up to 225 personally owned vehicles.
- 5.16 The campus received more than \$400,000 to improve bikeways and bike lanes and has pending grant proposals totaling more than \$1.4 million in cooperation with the City of Irvine.
- 5.17 A campus bike shop opened in December 2007.
- 5.18 ZotWheels, the first automated bike-share system in the western United States and the second at a university, provides members access to conveniently located bicycles around the campus core. Members use the bicycles rather than their vehicles to attend meetings or go to class, encouraging good health and reducing one pound of greenhouse gas emissions for each mile ridden.

6.0 Combined Heat and Power (waste heat recovery)

- 6.1 UC Irvine's 19 megawatt cogeneration facility, supplies buildings with electrical power, chilled water, hot water, and heating using waste heat recovered from a combustion turbine generator. With 66 percent efficiency, this is the most energy-efficient campus energy infrastructure in the U.S.
- 6.2 The Irvine cogeneration plant provides electricity to serve 80 percent of core campus electrical needs and 90 percent of heat supplied to core campus buildings for comfort heating and laboratory process use, including steam for sterilization. Finally, the plant provides more than 98 percent of core campus building cooling needs.
- 6.3 The plant captures waste heat and uses it (or stores it for future use) six different ways, thus maximizing the efficiency of waste-heat recovery.
- 6.4 UC Irvine's 62,000 ton-hour thermal energy storage system is the largest above-ground unit in the western U.S. and can shift up to 4.5 megawatts of electric load to off-peak (nighttime) hours.

7.0 Landscape and Open Space Management

- 7.1 Regents have dedicated 415 acres on campus and 202 acres in the San Joaquin Marsh to permanent open space.
- 7.2 UC Irvine's *Green and Gold Plan*, adopted in 1995, established progressive practices for sustainable landscaping, including selecting drought-tolerant plants, maximizing natural resource values, and increasing species and age diversity of plants.
- 7.3 UC Irvine's Native Tree Nursery is an innovative shared venture with the Shadetree Partnership, an Orange County volunteer organization that has planted thousands of trees on the UC Irvine campus and at schools, parks, and public spaces throughout Orange County.
- 7.4 The on-site nursery provides 1,000 trees for the campus each year.
- 7.5 UC Irvine landscape management staff have adopted numerous environmentally sound practices, such as recycling plant waste into mulch,

reducing fertilization, and implementing water-saving measures using weather-base evapotranspiration protocol.

- 7.6 UC Irvine faculty members oversee management of the San Joaquin Marsh, a part of the University of California Natural Reserve System. The campus has attracted grants totaling \$3.3 million for Marsh enhancement and restoration.
- 7.7 UC Irvine was a founding member of the Nature Reserve of Orange County and participates on its governing board. The associated Natural Communities Conservation Plan established a 37,000-acre habitat reserve which is managed by the Native Reserve.
- 7.8 UC Irvine has installed reclaimed water irrigation on capital projects for more than 30 years. Ninety percent of campus landscaping is irrigated with reclaimed water.

8.0 Density Management

- 8.1 Density management reflects a key LEED standard. Nearly 16 years ago, UC Irvine developed a density management framework that anticipates build-out sites and densities for all parts of the campus and preserves green space and valued habitat areas.
- 8.2 UC Irvine has removed inefficient, low-rise structures and built high-density projects to correct lapses of density management that occurred during the 1980s.
- 8.3 Student housing density standards were increased to 90 beds per acre in the 2025 Long Range Development Plan to increase both the number and percentage of students housed on campus.

9.0 Housing Sustainability Program

- 9.1 The undergraduate student organization Green Campus, with the support of Student Housing, completed the Green Room. This model dorm room contains only environmentally sustainable products. The room is designed to give students ideas and practical examples for leading a more sustainable and energy efficient life.
- 9.2 In fall 2009, Mesa Court began a sustainability theme house in the Vista residence hall that focuses on sustainability education. Water-reducing fixtures are being tested in this hall and adjacent landscaping will be replaced with sustainable material.
- 9.3 The Green Campus program has distributed more than 1,000 compact fluorescent lights to student residents.
- 9.4 A hundred percent of green waste generated in the housing communities is diverted from landfills.
- 9.5 Mowing equipment uses biodiesel fuel.
- 9.6 Grants from local water districts are being actively pursued, which will expedite replacement of inefficient irrigation controllers and provide an automated water management system.

- 9.7 Washing machines in all housing units have been replaced with water-saving front-loading ENERGY STAR machines.
- 9.8 ENERGY STAR micro-fridges may be rented directly by students living in residence halls.
- 9.9 Housing and UC Irvine Dining planted a 100-square-foot organic herb garden on the east side of Pippin Commons to promote sustainability and locally grown practices.

10.0 Emissions Reduction

- 10.1 UC Irvine participates in the UC/CSU/IO Energy Efficiency Partnership Program, which provides a permanent framework for long-term energy management. The Partnership involves the University of California and California State University campuses served by the state's four investor-owned utilities: Pacific Gas and Electric Company, Southern California Edison, and two Sempra Energy companies: San Diego Gas & Electric, and Southern California Gas Co.
- 10.2 In 2010, UC Irvine achieved more electrical savings from energy efficiency projects supported by the Partnership than any other UC campus. Irvine currently accounts for 25 percent of the electrical savings attained systemwide under this incentive program.
- 10.3 The UC Irvine campus and Medical Center will account for 20 percent of the electrical savings realized systemwide when the current program cycle concludes in 2012.
- 10.4 UC Irvine joined the Climate Action Registry and completed its 2007 and 2008 calendar year greenhouse gas inventories.
- 10.5 UC Irvine's Sustainability Committee has written the first campus climate action and sustainability plan.
- 10.6 UC Irvine is performing a majority of the pilot projects in the University of California system to discover viable new approaches to energy-efficient design, retrofitting, and greenhouse gas emission reductions including:
 - Installing "smart" real-time air quality sensing to sharply reduce energy consumption and greenhouse gas emissions in laboratories.
 - Worked with CalOSHA, UCOP, and other UC campuses to do pilot testing of energy-efficient, high performance fume hoods (which use less than half the energy of fume hoods currently required by CalOSHA).
 - Tested fume hood sash automatic closers to evaluate user acceptance, ease of retrofit, and reliability and robustness.
 - Evaluating "smart" controls for laboratory exhaust fans/stacks to determine if discharge air speeds can be reduced safely.
 - Examining a combination of manifolded cages and aircurtains to reduce air change rates in vivarium while maintaining animal care standards.
 - Testing the ability of "smart" plug strips to reduce 24x7 office parasitic loads.
 - Evaluating LED task lighting for user acceptance and feasibility of reducing general illumination.

- Comparing energy-efficient lighting technologies for parking structures to reduce 24x7 energy usage.
 - Evaluating the performance and quality of bi-level stairwell luminaires.
 - Examining cost-effective methods for retrofitting existing lighting loads into demand response programs.
 - Evaluating the performance of the campus' monitoring-based commissioning project portfolio with regard to degree of energy and peak energy use reduction, as well as cost-effectiveness.
 - Evaluating laboratory pilot lighting retrofit, designed to reduce carbon emissions 50 percent.
 - Testing the ability of benchmarking to identify best candidate buildings for monitoring-based commissioning.
 - Evaluating energy information systems and their ability to enhance campus energy conservation efforts.
 - Piloting a paperless recruitment process.
 - Piloting an automated, low-cost, bike-sharing program that will provide faculty, staff, and students with easy access to a bicycle for traveling short distances on the campus.
 - Adding GPS tracking to the campus shuttle fleet to provide riders with real-time information on bus schedules and status. This increased knowledge and convenience is expected to increase ridership by 10 percent or more.
 - Piloting carbon footprint labels on entrees in residential dining halls to educate students about the climate impacts associated with their food choices.
 - Conducting a new wellness program aimed at "greening" employees' lifestyles.
- 10.7 Throughout the 1990s, Facilities Management improved the energy efficiency of campus buildings and was cited by the National Association of College & University Business Officers with a national award for exemplary energy management.
- 10.8 Since 1992, UC Irvine's newly constructed buildings have outperformed California's Title 24 Energy Efficiency Standards by 20 to 30 percent. UC Irvine initiated this performance standard more than a decade before the Regents adopted the goal for the entire UC system.
- 10.9 UC Irvine has built some office buildings with operable windows over the past 15 years (although recent market conditions have required deletion of this desirable feature from many projects).
- 10.10 Campus-built student housing utilizes natural ventilation (no air-conditioning).
- 10.11 The campus has essentially eliminated the use of domestic hot water in non-residential restrooms campuswide.
- 10.12 In 1992 UC Irvine adopted building design standards that eliminated the use of rainforest woods.
- 10.13 Administrative and Business Services' program for Sustainable Improvement and Streamlining of Administrative Processes, now in place for more than a

decade, has replaced or eliminated paper forms and reports now exceeding 10 million pieces of paper per year, equivalent to 50 tons of waste and 416 tons of carbon dioxide emissions.

- 10.14 Beyond constructing greener buildings and energy-efficiency retrofits and installing more photovoltaic projects, the campus will need to procure emissions credits to offset co-generation emissions and net procured power. All UC campuses face this requirement in order to become climate-neutral, and a system-wide solution has been proposed – a large-scale “renewable energy farm.”
- 10.15 Measures outlined above will enable UC Irvine to achieve 1990 emission levels by 2020 as set forth in the Governor’s Executive Order (Executive Order S-3-05), Assembly Bill 32, and the UC Policy on Sustainable Practices.
- 10.16 Incidentally, unlike some wealthy institutions that buy their way to climate-neutrality (by purchasing off-site emissions credits for their entire “carbon footprint”), the plan outlined above actually reduces and offsets carbon emissions *directly*.

11.0 Green IT

- 11.1 In lieu of physical machines, Administrative Computing Services has created 240 fully functional virtual machines, reducing annual computer energy consumption by 741,000 kWh (equivalent to 245 metric tons of CO₂ annually).
- 11.2 Implemented centrally managed PC power management for 700 PCs, putting monitors to sleep after inactivity and reducing power consumption by 15 percent.
- 11.3 Migrating from rack-mount to blade servers that share common power and cooling subsystems, reducing power consumption by approximately 30 percent compared to traditional rack-mount servers.
- 11.4 Initiated implementation of virtualized desktop PCs. By replacing desktop PCs with ‘thin client’ devices connected to a virtualized PC running in a data center the campus expects to reduce energy consumption by 70-75 percent.

12.0 Sustainability Education

- 12.1 UC Irvine offers 30 environment- and/or sustainability-related degrees, as well as an interdisciplinary minor in Global Sustainability that is open to all undergraduates.
- 12.2 The campus offers classes about clean technologies. Among these are “Advanced Biological Treatment Processes;” “Pollution Prevention Through Manufacturing, Materials Selection, and Product Design;” “Environmentally Sustainable Manufacturing;” Solar and Renewable Energy Systems;” and “Sustainable Energy Systems.”
- 12.3 Green Campus, in coordination with residential life, has created a program called “Do it in the Dark” to educate residents about energy-saving practices in the dorms.

- 12.4 Green Campus has surveyed, leafleted, and persuaded laboratory users to close fume hoods and office workers to activate “sleep” features on computers and office machines, as well as to maintain ventilation space around freezers and refrigerators, reduce plug loads, and turn off unused equipment and lights. Green Campus organized a competition to encourage lab users to close fume hood sashes.
- 12.5 Green Campus and Environmental Health and Safety interns replaced old fume hood reminder stickers with new stickers that encourage users to close a fume hood and save up to 50,000 pounds of carbon dioxide a year.
- 12.6 Green Campus, in coordination with Facilities Management and Environmental Health and Safety, is implementing a Sustainable Laboratory program that encourages energy conservation, safety, and material recycling in laboratories.
- 12.7 Programs such as “Green Day: A Step Toward Energy Conservation” educate students about energy efficiency and alternative energy. The program involved hundreds of participants.
- 12.8 University Extension offers several certificate programs with a sustainability focus: Environmental Management, Facilities Management, Occupational Safety and Health, Light Construction and Development Management, Marketing for the Residential Builder, and Sustainability Leadership. University Extension also offers an Emergency Management and Disaster Recovery Course Series.
- 12.9 Campuswide “ZotMails” have proven successful in raising voluntary, widespread compliance with “Ten Things You Can Do To Save Energy.” This program of awareness-raising and voluntary cooperation saves an estimated 1.7 million kWh per year in electrical and thermal energy – equivalent to 1,000 tons/year in CO₂ emissions.
- 12.10 Facilities Management provides students with the opportunity to learn about recycling and sustainability on campus through two internship programs.
- 12.11 Two student groups, Students for Sustainability and the Orange County Chapter of Society for Conservation Biology, worked with faculty, staff, and community members to host “Focus the Nation at UC Irvine: Sustainability and Climate Change” a symposium on January 31, 2008, to address global climate change.
- 12.12 In April 2009, the Center for Service in Action, the Urban Water Research Center, Associated Students, Green Campus, Anteaters for Recycling and Conservation, CalPIRG, the Real Food Challenge, and Students for Sustainability sponsored the first campus Earth Week.
- 12.13 UC Irvine collaborated with the California Lighting Technology Center at UC Davis to organize two forums in 2009 (one at UC Davis and one at UC Irvine) centered around lighting retrofit solutions.
- 12.14 Vice Chancellor Wendell Brase chairs the UC Climate Solutions Steering Group and serves on the National Association of College and University Business Officers’ Sustainability Advisory Panel. In addition, Mr. Brase participated in the creation of APPA’s practical implementation guide for

compliance with the American College and University Presidents Climate Commitment.

- 12.15 UC Irvine administrators and professional staff have presented or convened sustainability sessions at numerous national and statewide events:
- 2011 National Association of College and Business Officers' Smart and Sustainable Campuses Conference: "The Cliff is Looming – The Business Imperative of Understanding Complex Financial Solutions to Sustainability Challenges" (Wendell Brase)
 - 2010 Big Ten Environmental Fall Meeting: "Smart Labs: A Key Element in Reducing UCI's Climate Footprint" (Wendell Brase)
 - 2010 The Association for Information Communications Technology Professionals in Higher Education's Summer Seminar: "The Role of Green IT in Achieving Climate-Neutrality" (Wendell Brase)
 - 2010 Western Association of Schools and Colleges Academic Resource Conference: "Solving the Campus Carbon Crisis: Energy Infrastructure and Deep Energy Conservation Strategies" (Wendell Brase)
 - 2010 AASHE Conference: "Key Ingredients for Institutional Success in Implementing Climate Change Solutions" (Wendell Brase)
 - 2010 Smart and Sustainable Campuses Conference: "Importance of the BAU Case in the Financial Justification of Renewable Energy Projects" (Wendell Brase)
 - 2010 Treasury Institute for Higher Education: "Moving Toward Carbon-Neutrality in Higher Education: What Will it Take and Cost?" (Wendell Brase)
 - 2010 Higher Education Sustainability Conference: "The Viability of running a Commingled Recycle Program in Tandem with a Source-Separated Recycle Program" (Facilities Management Solid Waste Manager Anne Krieghoff, who also gave 14 recycling educational presentations to student housing groups, leadership groups, and campus sustainability groups during the 2010-2011 school year)
 - 2009 EDUCAUSE Annual Conference moderator, "Green IT: Conscience or Wallet?" and "Sustainable/Green IT Lightning Round" (Wendell Brase)
 - Greening of the Campus VIII: Embracing Change presentation, "What Will it Really Take to Achieve Carbon-Neutrality?" (Wendell Brase)
 - NACUBO 2009 Annual Meeting: "What Every CBO Needs to Know about Carbon Neutrality" (Wendell Brase)
 - NorthWest Academic Computing Consortium: "Does the Fiscal Crisis Mean Postponing "Green IT" Initiatives?" (Wendell Brase)
 - 2009 EDUCAUSE Western Regional Conference: "What's Your Carbon Footprint? Sustainability and Green IT Initiatives that Make a Difference" (Wendell Brase)
 - 2009 Smart and Sustainable Campuses Conference: "The Role of Green IT in Achieving Climate-Neutrality" (Wendell Brase)
 - 2009 Society for College and University Planning (SCUP) Workshop: "What Will it Really Take To Become Carbon-Neutral?" (Wendell Brase)

- 2009 Greening the Internet Economy Workshop: “The Role of Green IT in Achieving Climate-Neutrality” (Wendell Brase)
- 2008 National Association of State Universities and Land-Grant Colleges (NASULGC) Annual Meeting: “Behavioral Approaches to Sustainability: Is it Possible to Create a Sustainable Dining Program without Increasing Costs to the Students?” (Robert Perez)
- 2008 EDUCAUSE Annual Conference: “What Will It Take to Become Carbon-Neutral?” (Wendell Brase)
- 2008 EDUCAUSE Annual Conference: “Green IT Initiatives” (Mark Askren)
- 2008 PC APPA Conference: “Laboratory HVAC Retrofits Saves Energy and Money” (Paul Wingco)
- 2008 Labs21: “Laboratory Demand-Controlled Ventilation: Applying a New and Emerging Technology at the University of California, Irvine” (Rebecca Lally and Chris Abbamonto)
- 2008 Labs21: “Zero Energy/Carbon-Neutral Laboratories and Campuses” (Samara Larson)
- 2008 Labs21 roundtable discussion: “Exhaust Stack Discharge Reduction: Means and Methods” (Fred Bockmiller)
- 2008 University of California/California State University/ California Community Colleges (UC/CSU/CCC) Sustainability Conference: “Streamlining LEED™ Certification for Multiple Buildings” (Richard Demerjian)
- 2008 UC/CSU/CCC Sustainability Conference: “Purchasing Laboratory Equipment” (Harry Gunther, session moderator)
- 2008 UC/CSU/CCC Sustainability Conference: “What State Greenhouse Gas Regulation Means to College and University Transportation” (Ronald Fleming)
- 2008 UC/CSU/CCC Sustainability Conference: “Successful Examples of Integrated Building Design” (Wendell Brase, session moderator)
- 2008 UC/CSU/CCC Sustainability Conference: “LEED™ EB Case Studies: Implementing Sustainable Practices through Project Documentation and Certification” (Paul Wingco)
- 2008 IAAM University Venue Management Conference: “Going Green On Campus” (Paul Wingco, Chris Abbamonto, Danny Spitzer)
- 2008 Sustainable Operations Summit: “What Will It Really Take to Become Carbon-Neutral” (Wendell Brase)
- 2008 Best Practices for Laboratory and Clean Room Design: “What Will it Really Take for a Research University to Become Climate-Neutral” (Wendell Brase)
- 2008 Smart & Sustainable Campuses Conference: “What Will it Really Take to Become Carbon-Neutral” (Wendell Brase)
- 2008 Smart & Sustainable Campuses Conference: “Streamlining LEED Green Building Certification for Colleges and Universities” (Richard Demerjian)

- 2007 National Association of State Universities and Land-Grant Colleges (NASULGC) Conference: “Climate-Neutral: What Will It Really Require?” (Wendell Brase)
- 2007 DOE/EPA Labs21 discussion: “Hospitals and Health Research in the 21st Century: Protecting Lives While Saving Energy” (Wendell Brase)
- 2007 UC/CSU/CCC Sustainability Conference: “Time to Get Serious: What UC Needs To Do To Move Toward Carbon-Neutral” (Wendell Brase)
- 2007 UC/CSU/CCC Sustainability Conference: “Procurement – Breaking Down the Silos: Collaboration, Communication, and Commitment” (Paige Macias)
- 2007 UC/CSU/CCC Sustainability Conference presentation regarding the Strategic Mobility Program and B100 Emissions Reduction Project (Ronald Fleming)
- 2007 UC/CSU/CCC Sustainability Conference presentations on campus bike planning, campuswide green building program, and housing (Richard Demerjian)
- 2007 Society for College and University Planning (SCUP) Workshop: “Sustainability and Planning: An Integrated Approach to Academic Resource Planning and Facilities” (Wendell Brase)
- 2006 SCUP Workshop: “Sustainability and Planning: An Integrated Approach to Academic Resource Planning and Facilities” (Wendell Brase)
- UC Irvine sponsored the appearance of Richard Fedrizzi, President and CEO, U.S. Green Building Council, at the 2006 UC/CSU/CCC Sustainability Conference
- 2006 UC/CSU/CCC Sustainability Conference: “Today’s High-Performance Labs: The Energy Challenge” (William Cowdell)
- 2006 UC/CSU/CCC Sustainability Conference: “Data Will Drive You Crazy” (Stacey Murren)
- 2006 UC/CSU/CCC Sustainability Conference: “Multi-Modal Money: Strategies for Funding Transportation Programs” (Dick Sun)
- 2006 UC/CSU/CCC Sustainability Conference: “Greening Your Campus Building Portfolio” (Richard Demerjian)
- 2006 UC/CSU/CCC Sustainability Conference: “Moving Ahead in Sustainable Transportation” (Paige Macias)
- 2006 University Business and Campus Development Summit: “Becoming an Environmentally Responsible and Energy Efficient Campus” (Wendell Brase)
- 2006 DOE/EPA Labs21: “Alternative Designs for Cost-Effective, Green Campus Laboratories” (Wendell Brase and Fred Bockmiller)
- 2005 NASULGC Council on Business Affairs session: “Do We Need LEED in Order to Build Green Buildings?” (Wendell Brase and Richard Fedrizzi, President and CEO, U.S. Green Building Council)
- 2004 NASULGC: “Greening up the University Without Breaking the Bank” (Wendell Brase)

- 2003 Labs21 presentation: “Air Systems Design: Good Acoustic Performance Without Sound Traps” (Wendell Brase and William Cowdell)
- 1999 Pacific Coast Association of Physical Plant Administrators: “Low NOx Burner Retrofits and Variable Speed Drive Applications” (Fred Bockmiller and Paul Howland)
- 1997 American Society of Landscape Architects: “UC Irvine Green and Gold Plan” (Richard Demerjian)
- 1996 SCUP presentation: “UC Irvine Green and Gold Plan” (Richard Demerjian)

13.0 Waste Stream Reduction

- 13.1 In calendar year 2010, UC Irvine diverted 75 percent of waste from landfills, exceeding the state of California goal for waste reduction. The campus sent the lowest amount of material to landfill in the history of the UC Irvine recycle program: 2,501 tons.
- 13.2 The campus generates an average of 11,000 tons of solid waste each year and provides recycling services for more than 22 types of commodities including all types of paper, plastics, glass, metal, pallets, lumber, concrete, asphalt, tires, food waste, ink cartridges, green waste, cooking oil, carpet and cardboard.
- 13.3 UC Irvine recycled 2,148 tons of green waste in 2010. UC Irvine's green waste is all composted.
- 13.4 NASULCG The Facilities Management Recycling Department worked with Student Housing, Hospitality and Dining, Parking and Transportation Services, and Aramark to start the first food composting program at UC Irvine in Mesa Commons in April 2010. Ninety-seven tons were composted and diverted from landfills. In 2011 the composting program was expanded to two dorm dining commons and six campus restaurants. To date, it is responsible for composting 201 tons of food. The program continues to expand and when fully implemented will include 12 campus restaurants and all three campus commons.
- 13.5 With the implementation of commingled recycling and food composting, Mesa Commons, which feeds 2,000 freshmen daily, is now the University of California's first and only “zero waste” facility.
- 13.6 Facilities Management was awarded a grant in excess of \$200,000 from the Department of Conservation to cover the start-up costs for a new commingled recycling program in student housing areas on campus. The commingled program begun in January 2009 was responsible for diverting 205 tons. In 2010 the commingled recycle program was expanded to campus laboratory and science buildings as well as the campus commons and restaurants. In 2010, the commingled program diverted 429 tons of material. Prior to the introduction of the commingled recycle program, all 634 tons would have ended up in the landfill.

- 13.7 The commingled recycle program generates on average \$24,000 annually from the sale of recycled material. In addition UC Irvine saves \$29,850 each year in avoided landfill fees.
- 13.8 UC Irvine's student housing move-out donation/recycle drive collects clothing, household items, e-waste, and non-perishable food items from students moving out at year-end. These materials are donated for reuse, and the food is donated to feed Orange County's hungry. E-waste is disposed of correctly. The June 2011 drive resulted in 94.5 tons of material diverted from the landfill.
- 13.9 Facilities Management participated in, and provided bags and recycling support for a Bring Your Own Bag event during Earth Week 2010. The event encouraged students to use reusable bags. Students exchanged 10 plastic bags for 1 reusable canvas bag. The plastic bags were then recycled.
- 13.10 Facilities Management, in cooperation with Anteaters for Recycling and Conservation, participated in Earth Week 2010 by giving a presentation on commingled recycling.
- 13.11 UC Irvine's Solid Waste and Recycling Department worked with 10 students to produce résumé-worthy projects in 2010 in the for-credit field study internship program.
- 13.12 In 2009 and 2010, UC Irvine partnered with the Orange County Conservation Corps to collect bottled cans on campus. This unique partnership provides work experience and a source of revenue for the OCCC at-risk youth education program. At the same time, the program reduces Irvine's operating cost for the collection of bottles and cans with California Redemption Value.
- 13.13 Equipment Management's surplus property sales program provides an on-line storefront and protected warehouse for selling and buying surplus property that enables departments to free up space and conserve resources, while diverting waste from landfills.
- 13.14 For more than a decade, UC Irvine has implemented a hazardous waste minimization program, including reduction of hazardous materials, utilization of "microscale" laboratory procedures, and adoption of less hazardous cleaning agents, paints, and laboratory reagents.
- 13.15 UC Irvine collected and properly disposed of 273 tons of electronic, bio-hazardous, and chemical waste in 2010.

14.0 Water Conservation

- 14.1 Ninety percent of the water used for campus landscape irrigation is from reclaimed sources.
- 14.2 UC Irvine is in the process of upgrading its legacy time-based irrigation system to a GPS and weather based irrigation system that dynamically adjust irrigation times based on weather conditions and system water pressures.
- 14.3 A pilot program is currently underway to determine if filtered or treated reclaimed water can be used for cooling towers.
- 14.4 The campus' 60 highest-usage restrooms have water-conserving fixtures. In 2007 and 2008, these projects and corresponding signage saved nearly 4 million gallons of water annually.
- 14.5 Housing enforces a "no car wash policy" in residential parking areas.
- 14.6 New construction projects employing LEED standards include many water-conservation features.

15.0 Surface Water Quality

- 15.1 Recent projects have employed best practices for stormwater retention and cleanup.
- 15.2 East Campus (Vista Del Campo – Phase II) employs a bio-swale and wetland treatment basin system for storm water.

16.0 Green Procurement

- 16.1 Assisted in the systemwide team effort to develop strategic-sourcing agreements that incorporate green products, including ENERGY STAR water coolers, recycled office supplies, environmentally sound furniture and floor coverings, and ENERGY STAR copiers with duplex capability.
- 16.2 Initiated the project with Labs21 and EPA/ENERGY STAR to develop ENERGY STAR ratings for laboratory freezers.
- 16.3 Working with suppliers to promote the development of viable LED lighting fixtures.
- 16.4 Promoting the use of recycled products through newsletters, vendor fairs, and campus informational meetings.
- 16.5 Making a focused effort to promote the use of recycled paper in campus copy centers.
- 16.6 Participated in the creation of the UC systemwide policy on Environmentally Preferable Purchasing Practices.
- 16.7 Implemented a campus-based policy requiring that an ENERGY STAR product will be purchased for all procurements where an ENERGY STAR choice exists. Eighty percent of appliances in UC Irvine housing are ENERGY STAR rated.
- 16.8 Since 2005 all water coolers at UC Irvine have been ENERGY STAR rated. Purchasing was able to drive this change that is now part of a UC Strategic Sourcing agreement. This project was recognized by ENERGY STAR with a

paper titled: “UC Irvine Saves Big with ENERGY STAR Bottled Water Coolers.”

- 16.9 Copiers and printer contracts have been established with firms providing competitive pricing on ENERGY STAR rated equipment. This includes: Xerox, Cannon, Ricoh, and HP.
- 16.10 Computer Equipment is available from our primary suppliers (HP, Dell, Sun, Apple) that is ENERGY STAR and EPEAT rated.
- 16.11 Information on “Green Purchasing” is available in SNAP, the campus’ administrative Web portal.
- 16.12 The UC office supplies contract provides 30 percent, 50 percent and 100 percent post-consumer-waste recycled paper at competitive prices, as well as many other office products incorporating recycled material. The online catalog also provides a tool to help select recycled products.

17.0 Dining Services

- 17.1 In 2007, Green Campus, Dining Services, and Facilities Management established a program to reduce food waste and give back to the community. Approximately 100 pounds per week of leftover food is donated to America’s Second Harvest, the nation’s largest charitable hunger relief organization.
- 17.2 Dining Services, in cooperation with Green Campus, held a “Weigh the Waste Event” at Mesa Commons in Spring 2007. The event was followed by an educational campaign. A second event was held a month later, resulting in a 100 pound reduction in waste. The event has continued to occur on a periodic basis.
- 17.3 Dining Services, in cooperation with Aramark, is working to develop a sustainable food procurement plan.
- 17.4 Students for Sustainability's Sustainable Foods Campaign has assisted in advancing campus goals to provide local, organic, and sustainably produced foods to the campus community.
- 17.5 Implemented a program for priority sourcing of food produced within 150 miles of campus.
- 17.6 100 percent Eco Grounds and Fair Trade Certified coffee is served at all campus dining locations.
- 17.7 Biodegradable containers are used for most to-go items and biodegradable plates are used in most retail dining locations.
- 17.8 Dining Services patrons receive a discount for using personal mugs, reducing paper cup and lid waste.
- 17.9 In collaboration with Facilities Management, Dining Services has implemented a coffee grinds recycling program. These grinds are used to fertilize campus grounds.
- 17.10 An organic egg program was initiated in all Aramark managed food service locations on campus. All eggs in these locations are 100 percent certified Organic Cage-Free Eggs. The organic egg program was initiated to educate students about ethical issues related to caged hens.

- 17.11 Recycling bins are placed outside all campus dining locations to encourage bottle, glass, newspapers, and paper recycling.
- 17.12 Dining Services adheres to the Monterey Bay Aquarium's Seafood Watch guidelines.
- 17.13 All dining commons have reusable service ware.
- 17.14 Quarterly dining service sustainability audits are performed in all retail and residential dining locations.
- 17.15 Dining Services partners with Irvine Students Against Animal Cruelty (ISAAC) in sponsoring dinners to educate students about the benefits of vegan and vegetarian dining.
- 17.16 A comprehensive organic food program has been introduced in several Aramark-managed locations including residential dining, the West Food Court, and the Zot-n-Go convenience store.
- 17.17 Trans fats have been eliminated from all dining locations.
- 17.18 Aramark has established a system for recycling 100 percent of fryer grease in all of its dining locations.
- 17.19 Dining Services promotes waste-reduction practices by participating in RecycleMania every year.
- 17.20 Only eco-friendly chemicals and cleaning agents are used in Aramark-managed dining locations.
- 17.21 As of June 2008, all residential dining locations had gone to trayless service. This reduces both food waste and saves the resources required for cleaning of these trays.
- 17.22 UC Irvine Dining is partnering with Green Campus to pilot a program, called "De-lightful Dining," to conserve energy through reduced lighting in campus dining areas.
- 17.23 Dining Services sponsors two student members of the Sustainable Agrifood System Fellowship to introduce the "Real Food Challenge" with the goal of increasing the amount of sustainable food products in all dining facilities.
- 17.24 Dining Services is piloting a greenhouse gas emissions reduction campaign. The goal of the program is to educate students regarding the emissions levels associated with entrees served in on-campus housing dining facilities and encourage students to make more environmentally friendly choices.

18.0 Recognition and Awards

- 18.1 2011 UC Irvine earned a Second Nature Climate Leadership Award recognizing leadership, academic, and research strength, and innovative carbon-reduction strategies.
- 18.2 2011 UC Irvine named a platinum-level "Start! Fit Friendly" company by the American Heart Association.
- 18.3 2011 UC Irvine's Sustainability Program earned the Urban Land Institute's "Best of the Best" Award for Orange County and the Inland Empire.

- 18.4 2010 and 2011 UC Irvine designated as a “Tree Campus USA” by the National Arbor Day Foundation in recognition of UC Irvine’s longstanding commitment to the planning and management of its urban forest.
- 18.5 2010 UC Irvine ranked No. 6 in the Sierra Club’s list of the top 100 “Coolest Schools,” representing America’s greenest campuses.
- 18.6 2010 American Society for Public Administration – ASPA President’s Award – ZotWheels
- 18.7 2010 Bicycle Friendly University Silver designation – League of American Bicyclists
- 18.8 2010 Rideshare Diamond Award Individual Achievement – Mike Davis – presented by the OCTA, VCTC & MTA
- 18.9 2010 Best Workplaces for Commuters Race to Excellence Gold Award
- 18.10 2010 Parking Program of the Year Award – California Public Parking Association (CPPA)
- 18.11 2010 Best Workplaces for Commuters designation – National Center for Transit Research / U.S. EPA
- 18.12 2010 Innovative Achievement in Auxiliary Services Award for ZotWheels – National Association of College Auxiliary Services (NACAS)
- 18.13 2010 Rideshare Diamond Award – presented by the OCTA, VCTC & MTA
- 18.14 2010 Employee Transportation Coordinator (ETC) Champion Award – Mike Davis – Association for Commuter Transportation
- 18.15 2010 Bright Idea Award – ZotWheels Automated Bikeshare - Harvard University’s Ash Center for Democratic Governance and Innovation
- 18.16 2010 Innovators Award – Student Systems and Services Category for ZotWheels – Campus Technology
- 18.17 2010 Green California Leadership Award for Zotwheels, a campus bike-sharing program.
- 18.18 2009 Perfect 10 - Transportation Category – Sierra Club
- 18.19 2009 Best Work Places for Commuters – US EPA National Transit Research Center
- 18.20 2009 Best Workplace for Commuters Silver Award for sustainable transportation initiatives
- 18.21 2009 OCTA Share the Ride Challenge Award given to the three institutions in Orange County with the most participation in OCTA’s Share the Ride Challenge.
- 18.22 2009 U.S. Green Building Council, LEED Gold Award, Anteater Recreation Center Expansion
- 18.23 2009 U.S. Green Building Council, LEED Gold Award, Bren Hall
- 18.24 2009 Diamond Award for successful rideshare program
- 18.25 2009 US Green Building Council, LEED Gold Award, Student Center
- 18.26 2009 EPA Region 9 Environmental Achievement Award for UC Irvine’s Sustainable Transportation program
- 18.27 2008 Clean Air Award – Innovative Transportation Program - SCAQMD
- 18.28 2008 Award – Innovation and Collaboration from the McHenry County Economic Development Corporation’s Business Accelerator Program for ZotWheels

- 18.29 2008 Governor's Environmental and Economic Leadership Award (GEELA) - Climate Change – State of California
- 18.30 2008 Clean Air Award - Innovative Transportation Program – SCAQMD
- 18.31 2008 Flex Your Power Award, Best Overall
- 18.32 2008 Governor’s Environmental and Economic Leadership Award for the Sustainable Transportation Program
- 18.33 2008 Clean Air Award for Innovative Transportation Projects from the South Coast Air Quality Management District
- 18.34 2008 The EPA selected UC Irvine’s Pediatric Environmental Health Specialty Unit as a Regional Children’s Environmental Health Champion for creating fact sheets for pediatricians and the public to address environmental health hazards caused by the 2007 Southern California wildfires
- 18.35 2008 U.S. Green Building Council, LEED Gold, Anteatr Instruction and Research Building
- 18.36 2008 UC/CSU/CCC Sustainability Conference, Best Practices Award, Water Efficiency/Site Water
- 18.37 2008 UC/CSU/CCC Sustainability Conference, Best Practices Award, Transportation Demand Management
- 18.38 2008 UC/CSU/CCC Sustainability Conference, Honorable Mention, HVAC Retrofit
- 18.39 The Center for Hydrometeorology and Remote Sensing (CHRS) at UC Irvine was named a joint winner of the 2007 Great Man-Made River International Water Prize by the United Nations Educational Scientific and Cultural Organization (UNESCO)
- 18.40 2007 US Green Building Council, LEED Gold Award, Palo Verde II Student Apartments
- 18.41 2007 Energy Efficiency Partnership Program and Sustainable Transportation Program, Best Practices Award, Student Energy Efficiency
- 18.42 2007 Energy Efficiency Partnership Program and Sustainable Transportation Program, Best Practices Award, Transportation Demand Management
- 18.43 2007 Energy Efficiency Partnership Program and Sustainable Transportation Program, Best Practices Award, Campus Owned and Operated Transportation
- 18.44 2007 Energy Efficiency Partnership Program and Sustainable Transportation Program, Honorable Mention, Monitoring Based Commissioning
- 18.45 2006 Energy Efficiency Partnership Program and Sustainable Transportation Program, Honorable Mention, Best Lighting Retrofit
- 18.46 2006 Southern California Edison, Best Practices Award, Best Lighting Retrofit -- Sustainable Operations
- 18.47 2002 Transportation Excellence Award from the Orange County Transportation Authority for ZEV-Net’s exemplary efforts in improving mobility in Orange County
- 18.48 1996 NACUBO Higher Education Award, Rethinking Energy: A Comprehensive Approach