

TCU AND THE ENVIRONMENT

AD HOC UNIVERSITY COMMITTEE

2016-17 AY

Oversight: Faculty Senate Executive Committee.

Charge: A comprehensive study of the university's sustainability practices. Send to Faculty Senate Executive Committee (FSEC) by March 20, 2017: 1. Report of findings and 2. Recommendations. Work with FSEC to present recommendations to the Faculty Senate at the April 6, 2017 FS meeting.

Faculty

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1. Sustainability and the TCU Mission

The mission of TCU is to “Educate individuals to think and act as ethical leaders and responsible citizens in the global community.” At its core, responsible citizenship means learning how to live sustainably in a world that provides us with a range of finite resources. Specifically, how can we impact the natural environment as lightly as possible, provide economic opportunities that nurture both natural and social capital, and treat all human beings equally? These diverse approaches are often referred to as the “People, Planet, Profit” triad.

According to a 2009 article in the Harvard Business Review, sustainability is the key driver of innovation. Being a responsible company is simply good for the bottom line. Some outstanding examples of corporate sustainability initiatives include:

- Mary Kay, who has planted over 1 million trees, use 100% renewable energy, and has zero landfills used in production.
- Hillwood Development, ranked as the second-largest real estate purchaser of renewable energy in the U.S. and the largest in Texas.
- BNSF Railway, who has been able to reduce their collective carbon footprint by 34 million metric tons in 2015 (equal to removing the emissions produced by seven million cars in a year) and has invested in renewable energy, including an 800 kilowatt solar array and solar panels for backup power for more than 500 sets of signal equipment.
- Pepsico, whose Performance with Purpose program has delivered top tier financial performance over the long term by integrating sustainability into the business strategy. (Pepsico also won the 2012 Stockholm Industry Water Award for its contribution to sustainable water management.)
- DFW Airport, the first airport to receive the EPA's Climate Leadership Award by reducing carbon emissions by 25%.

The challenge at TCU is that sustainability has never been centrally coordinated, nor has it ever been truly championed as a central ethos of our university life. In essence, there is not a distinctive “culture” of sustainability at TCU. The Facilities Services has been a standout, having implemented numerous green initiatives over the past two decades that have saved the university significant dollars (highlighted in section 2 of this report below).

However, in the opinion of this committee, TCU has failed our students in the field of sustainability education necessary to create responsible citizens. There has been limited opportunity to introduce our students to the environmental, economic, and social aspects of sustainability or to explore any one of these approaches in greater depth. TCU's “product” –the student that is the ethical leader and responsible citizen – leaves TCU with only a rudimentary knowledge of the interconnectedness and interdependence of human interactions with the natural world and implications for sustainable development, both locally and globally.

Despite these shortcomings, TCU has, as a community, accomplished much within the broad field of sustainability. This has been due to the efforts of a number of people from all across campus with a deep understanding of these interconnections and their importance in educating tomorrow's leaders. We highlight below some of the major achievements in sustainability over the past decade, accomplished largely through personal commitment of these dedicated individuals.

2. A decade of accomplishments in sustainability at TCU

I. Academics and Research

- There are currently more than 30 courses taught on campus that have sustainability as a subject or important theme within their syllabi.
- Students can obtain a *Certificate in Sustainability* from the Institute for Environmental Studies (IES) by completing a cluster of sustainability-designated courses (see Appendix A). Fifteen certificates have been awarded to date.
- A *Minor in Sustainability* was launched in 2016 which is administered by a committee within the IES.
- Several field immersion and study abroad experiences have been developed, including environmental and green business courses taught in Costa Rica and a biodiversity and human development course taught in South Africa.
- Since 2012, the Department of Engineering has hosted an Annual Symposium on Sustainability every spring.
- In 2007, environmental science students completed and submitted to the Texas Commission on Environmental Quality a Storm Water Management Plan for the city of Bedford which was adopted.
- In 2008, environmental science students successfully developed and implemented a new green roof design using native prairie plants for commercial developments.
- In 2009, the environmental science department launched *Chasing Carbon*, an academic course which was the first effort to comply with the American College & University Presidents Climate Commitment (ACUPCC) which TCU signed in August 2008.
- From 2008 onwards, TCU graduate students embarked on exciting new research for a range of natural and synthetic green roofs uniquely designed to use native prairie plants for Texas climates. Students built 14 model roof test platforms, used several different soil media, identified 30 annual and perennial species candidates, and transplanted over 1,300 native plants to the test platforms. This research helped fuel the budding green roof industry in Texas, maximizing the benefits of green roofs in our urban centers, such as those on the BRIT building.
- In 2006, the IES launched the TCU-Oxford Sustainable Futures Initiative, a program that sent 10-12 of our students to Oxford University for an intensive, three-week environmental issues program taught from the European perspective. Through this life-changing program, our students achieved a more-

worldly perspective on environmental issues. These students graduated with an advanced perspective on creating and implementing environmental solutions for international business, government, and society. The program ran twice, in 2006 and 2008, before funding from the VIA ended.

II. Engagement

a) Campus engagement

- Student orientation: students are given reusable bags with the statement “bleed purple, live green” on them to increase awareness.
- Student awareness: Since 2011, students have had the opportunity to publicize sustainability achievements through multiple Earth Day Texas booths sponsored by the IES.

b) Employee educational programs

- Housekeeping supervisors provide training on recycling and green cleaning for their staff.

c) Community partnerships

- The IES has partnered with several non-profits to advance sustainability-related issues in North Central Texas, including BRIT, The Fort Worth Nature Reserve, and Recyclebank.
- In 2009, IES collaborated with the PGA Tour to design the first “Green Pavilion” – the PGA Prairie Hopper – which was showcased at the Colonial Golf Tournament. The pavilion won the California Institute of Architects 2009 AIA California Council Awards for Architecture, Honor Award in the Small Project Award category.
- In 2009, environmental science students organized a green urban futures conference in Fort Worth with participation from Mayor Mike Moncrief, city of Fort Worth environmental staff, local green businesses, and guest speaker, Peter Pfieffer, leading green architect.

III. Operations

a) Climate

- In 2008, Chancellor Boschini signed the ACUPCC agreement, a national endeavor to make college campuses carbon neutral. The ACUP commitment to climate change meant that TCU must:
 - Within 2 months, create a structure to comply with the agreement.
 - Within 1 year, complete the comprehensive inventory of emissions.
 - Within 2 years, complete the plan for becoming carbon neutral.
 - Initiate at least 2 actions to reduce GHGE.

Over the following four semesters, 53 students and two faculty involved in *Chasing Carbon* completed the following projects and saved TCU over \$1 million dollars in consulting fees spent by other universities to accomplish far less :

- Evaluated the carbon offset options for all study abroad travel.

- Gathered the baseline data for conservations efforts (campus-wide)
- Identified ways to incorporate sustainability into the curricular and other educational experiences of all TCU students,
- Established an environmental authority in the resident halls on campus (Residential) – Eco Reps
- Developed the draft Institutional Action Plan to meet year two goals of the agreement.
- Completed the Provost's "Tree-Walk Project", identifying species for large trees on campus, providing information about these trees, and including carbon sequestration estimates for tree cover.
- Completed an article related to the snow damage to trees on campus during 2010.
- Developed a draft On-Campus Energy Conservation "Marketing Program"
- Reviewed small-scale renewable energy technologies that could be incorporated on campus.
- Completed a survey of faculty, staff and students regarding sustainability.

Chasing Carbon won the North Texas Clean Air Coalition's award in 2009. In addition, the *Chasing Carbon* students compiled a comprehensive listing of TCU's green efforts since 2000 and developed the ACUP report required to be published at [www. AASHE.org](http://www.AASHE.org). By reporting the substantial green efforts at AASHE, TCU was named one of the top green colleges in the country and one of only 3 in Texas. The document, titled: THE PRINCETON REVIEW & U.S. GREEN BUILDING COUNCIL RELEASE "GUIDE TO 286 GREEN COLLEGES", was published by the Princeton Review and U.S. Green Building Council and is a free guidebook profiling the most environmentally-responsible colleges including those excelling at preparing & placing the next generation of "green" professionals. The guide can be downloaded at www.princetonreview.com/greenguide or www.usgbc.org/campus.

b) Buildings

- TCU has a robust capital construction program resulting in an average new/renovated facility age of 21 years across campus.
- Leadership in Energy and Environmental Design (LEED) accredited staff, and all new facilities constructed with a minimum LEED Silver certification goal.
- One LEED Silver and sixteen LEED Gold buildings on campus, with two more pending certification, seven under construction, and nine programmed for construction over the next three years to replace older buildings.

c) Grounds

- Utilize drought-tolerant plants, with emphasis on native species.

d) Biodiversity

- Over 500 trees on campus and designation as a “Tree Campus USA” school on what was once a prairie.
- e) Procurement
- Green Seal Certified cleaning solutions are used across campus.
 - Most paper goods in use are 100% recycled products containing at least 40% post-consumer waste.
 - Use VOC (Volatile Organic Compound) -free solvents and VOC-free inks in the printing operations.
 - Proper hazardous chemical management and proper disposal, recovery or recycling of batteries, tires and other debris deemed hazardous or outside the normal waste stream.
- f) Transportation
- Utilize Low Emission Vehicles or Ultra Low Emission vehicles.
 - Down-sized from full-sized trucks to compact vehicles whenever possible to lower costs and reduce emissions. Vehicle fleet averages 45-60 mpg.
- g) Waste
- Utilize dedicated recycling bins in buildings and nine recycling dumpsters on campus to receive material diverted from landfill.
 - Utilize five trash compactors on campus to decrease waste for landfill material.
 - Recycle/reuse metals and other building materials where appropriate. Convert landscaping material to usable mulch.
 - Computers, monitors and printers are recycled by Technology Resources.
- h) Water
- Landscape irrigation was updated with an evapotranspiration system in August 2011. This system measures the moisture in the ground and waters based on the type of plant, preventing overwatering. Since installation, the amount of water for irrigation has been reduced by approximately 15% annually.
 - Building-use water is measured and analyzed monthly to identify changes attributable to waste, leaks, and equipment malfunction. Metering and aggressive system maintenance contribute to sustained reduction in per-capita water utilization.
 - Low flow faucets, showerheads, toilets and urinals have been installed in new construction and renovations saving an estimated 8.8 million gallons of potable water annually.
- i) Energy
- Utilize a full time Certified Energy Manager housed in Facilities Services to ensure a sustained investment in energy efficient lighting and building components, compliance with energy aspects of the LEED certification process for new construction and renovation, and aggressive efforts to

replace high energy use items such as lighting, heating and cooling with efficient emerging technologies.

- Over the past five years, reduced Energy Utilization Index (EUI) from 130 kBtu/ft²/yr to 120 kBtu/ft²/yr.
- Developed a comprehensive Energy Strategy with goals for continued energy demand reduction despite a growing campus.
- Utilize a thermal storage system to reduce peak electrical demand.
- Converted from an inefficient central steam system to a more efficient, distributed, hot water system, resulting in substantial reductions in thermal loss.
- Heavy emphasis on use of efficient LED fixtures for interior and exterior lighting.
- Motion sensors installed to turn off lights when spaces are not in use.
- Use an Energy Management Control System to monitor and control building temperature, start and stop equipment, measure energy use, and notify maintenance personnel of any problems with system performance.

j) Food & dining

- Divert waste from landfills by instituting a trayless operation, utilizing bulk condiments, eliminating to-go containers, and installing Xpress Nap Dispensers.
- Utilize 100% recyclable material in any packaging.
- Purchase fish and seafood from sustainable sources.
- Recycle 100% of fryer oil for biofuel.

k) Housing

- Housekeeping uses sustainable cleaning materials and chemicals, which are made from natural, recycled, or reused product to clean the residence halls and use HE cleaning equipment to cut down on electricity use.
- Each residence hall has a trash room on every floor that has both trash and recycle bins with signage above the recycle bins stating what should be in the bins. There is also a trash and recycle bin at the entrance to every residence hall and every residence hall room has been stuffed with a reusable bag with recycling information on it at the beginning of the year for the past 3 years.
- Collaborated with dining to sell reusable cups at Union Grounds that earn a discount on drinks when reused.
- Installed HE washers and dryers for students into all of the residence halls.

3. Challenges and missed opportunities

In the opinion of this committee, sustainability coordination and planning is the one area that significantly negatively impacts the advancement of sustainability at TCU. The main issue is that there is not a central office or coordinator to address the topic of sustainability. There are staff, departments, dedicated faculty, TCU Facilities Services, student organizations, and students who are involved in sustainability-related activities, but there is not a means of connecting the efforts of these constituencies, thus reducing the effectiveness and awareness of TCU's sustainability efforts.

With a centralized position of responsibility at the cabinet level, TCU could not only advance sustainability efforts, but could gain national attention and awards for its sustainability efforts. These awards, and the proposed unique partnership of administration-faculty-staff-students also has the potential to secure NSF funding for interdisciplinary research involving undergraduate and graduate students.

For example (and as noted earlier), TCU signed the American College and University Presidents' Climate Commitment. This was the only time the university had an institutional plan with measurable goals and outcomes, but TCU has since chosen not to follow through with the commitment. The remarkable accomplishments by students through the *Chasing Carbon* course could not be maintained without administrative leadership. The course and accomplishments stalled, no further action was taken, and the class was disbanded.

TCU has also created ad hoc sustainability committees (for example, a sustainability committee in 2009 and the C4 committee in 2010) over the past decade to address specific sustainability issues, such as how to integrate sustainability into the curriculum. These committees functioned for approximately one year and, again, disbanded. SGA routinely creates an environmental or sustainability committee and their only interface has been with the IES. Simply stated, there has been no central leadership or coordination.

TCU is also unique among its peer and aspirational institutions by not having an office or coordinator for sustainability. Individuals within and outside of TCU do not know whom to contact to discuss or address sustainability issues. When contacted by outside organizations, such as the Princeton Review or the Green Report Card, critical information about TCU's efforts is not reported because there is no center of responsibility. Therefore, TCU's scores are abysmal, with the exception of the years that *Chasing Carbon* took over these reporting responsibilities.

Another example of the lack of coordination is the issue of recycling. For over a decade, TCU has used the single stream recycling system, but it has not been well publicized. Therefore, misinformation about recycling resulted in confusion among many. The environmental committee within SGA undertakes this effort repeatedly every few years because their efforts stall without administrative leadership. For this

reason, some students, faculty, and staff began their own recycling efforts on campus because they were under the impression that TCU does not recycle and has a low diversion rate. (Pepperdine has 78% diversion, Harvard 52% diversion, while TCU is at approximately 14% diversion).

We know that the majority of students, faculty, and staff support sustainability at TCU. For example, a spring 2016 student-led survey of the TCU community found that 89% felt that recycling is significant or extremely important with only 27% of respondents indicating that they were aware of how TCU recycles. There were over 150 comments encouraging more recycling at TCU. An email poll sent to the TCU community in February 2017 indicated 63% are fully in favor of a \$5 sustainability (green) fee per semester, most positively supported by students (66%), followed by staff (62%), faculty (62%) and administrators (61%). Insightful quotes included “TCU should cover this type of cost,” “I think this shows good global citizenship,” “More recycling bins around campus,” and “We need to do much more than we are currently. We are way behind other universities on this important issue.”

4. Our recommendations

To address the shortcomings and missed opportunities outlined in section 3 of this report, this committee makes the following three recommendations:

- I. We recommend the university hire a Director of Sustainability charged with developing and implementing the university's sustainability policy and mitigating the university's environmental impact. The Director will help integrate sustainability into all aspects of the university.

In accomplishing this, the Director will operate within the administrative and academic areas of the university. We recommend that the position report directly to the Chancellor or the Provost and be a part of the Chancellor's cabinet. More details on this position are given in Appendix B.

- II. We recommend that the “TCU Sustainability Committee” become a standing University Committee starting in the 2017-18 academic year. This committee would work simultaneously with the Director of Sustainability but would also have direct access to the Chancellor, so as to ensure a vision and voice representative of the entire campus.
- III. We recommend that the university re-join the Association for the Advancement of Sustainability in Higher Education (AASHE) and recommit to the ACUP agreement. The efforts previously undertaken have stalled without cabinet-level leadership. We outline in Appendix C 75+ recent examples of what other colleges and universities are doing in regard to sustainability.

Appendix A: Sustainability-related courses at TCU.

ANTH 30663	Food Justice	BIOL 30403	Ecology and the Environment
ANTH 30743	Animals, Religion, and Culture	BIOL 40353	Wildlife Ecology and Management
ANTH 30783	Anthropological approaches to Nature and the Sacred	ENGR 30113	Energy in Society
ANTH 30823	Native American Religions and Ecology	ENSC 30133	Concepts in Environmental Science
ANTH 40433	Transnational Processes: Globalization, Migrations, and Borders	ENSC 30313	Environmental Issues in Costa Rica
ECON 40970	Environmental Economics	ENSC 30453	Wildlife Research Project
ECON 40970	Natural Resource and Energy Economics	ENSC 40193	Environmental Stewardship Seminar
ENGL 30153	Nature Writing	ENSC 40603	Biodiversity and Human Development in South Africa
GEOG 30703	Environment and Society	ENSC 50233	Urban Wildlife
HIST 40853	American Environmental History	ENSC 50333	Energy Development and Wildlife
PHIL 30403	Environmental Philosophy	ENSC 50703	Environmental Compliance
POSC 33133	Energy and Global Geostrategy	ENSC 50753	Environmental Management Systems
RELI 30783	Religion and Environmental Ethics	ENSC 50793	Concepts in Environmental Sustainability
SOCI 20223	Social Problems	NTDT 20113	Issues of Food in Society
SOCI 30233	Sustainability: Environmental, Social, and Economic Issues	NTDT 30993	A Global Perspective in Food Insecurity
SOCI 30253	Environmental Sociology	ENSC 10143	Contemporary Environmental Issues
SOCI 40303	Animals, Culture, and Society	ENGR 40213	Sustainability
RAMA 20103	Challenges of Global Food Production		
MANA 30773	Entrepreneurship and Energy		

Appendix B: Job description and responsibilities of Director of Sustainability position.

The Director of Sustainability shall focus on three main areas: Administration, Academics, and Communications to accomplish the following:

Administration:

- In consultation with the Committee on Sustainability and the Administration, develop the University policy on sustainability and set sustainability measures and goals.
- Work directly with project managers, engineers, and facility planners to infuse sustainability principles into new construction, renovations, standards, plans, and studies; and with energy managers, maintenance managers and craftspeople, grounds personnel, and custodians to integrate sustainability into energy management, operations, maintenance, groundskeeping, solid waste removal, and cleaning practices.
- Work with university administration, faculty, and staff to identify, justify and implement cost-effective, technically feasible projects.
- Support faculty and staff in identifying and applying for grants, rebates, funding and partnerships. Disseminate information on scholarships and fellowships for sustainability research, faculty and/or student collaboration, special projects and partnerships, and other funding opportunities.
- Identify funding opportunities and apply for external grants.
- Build effective partnerships and relationships with other institutions.
- Identify and adapt sustainability best practices. Keep current with sustainability laws, regulations, products, programs etc., especially at other institutions of higher education.
- Participate in conferences and related events to identify new ideas and practices as well as communicate TCU's sustainability efforts.
- Ensure that information is distributed appropriately. Keep the administration advised of changes in laws/regulations that may affect policies, require the implementation of new policies, or affect operating budgets.

Academics:

- Partner with the IES to host environmental colloquia; coordinate with the environmental science program, the sustainability minor, and other related courses; direct and support student environmental projects and initiatives.
- Interface with Deans of the University's Colleges, department chairs and faculty to integrate sustainability into curricula.
- Identify and steward sustainability initiatives on behalf of the University and act as a resource for University departments wishing to pursue sustainability initiatives that maximize the environmental performance of the university.
- Foster and coordinate new ideas and concepts for sustainability programming themes and identify materials and resources to supplement, expand or replace existing sustainability programming.
- Support and work with students, faculty, and staff doing academic work or projects with a focus on campus sustainability issues or that use the campus as a

laboratory for learning about sustainability.

Communications

- Promote campus awareness and visibility for sustainability through reporting of current sustainability data, environmental stewardship, and green initiatives.
- Establish and maintain an effective communications strategy, including a web site, news articles, case studies, and other appropriate avenues, with the objective of raising internal and external awareness of and support for campus sustainability efforts.
- Assist with the support of interns, other assistants, dorm eco-reps, volunteers, and additional staff.

QUALIFICATIONS

The Director will hold a Master's degree in urban or environmental planning; environmental science environmental management; environmental engineering; or a related field. The Director will have a minimum of 5 years' experience in sustainability, environmental technology, or a related field. A Ph.D. degree in a related field , and past employment in higher education, are desirable but not required.

The position requires excellent analytical, communications and organizational skills; an ability to self-motivate, multi-task and work in a fast-paced environment under deadlines. Additionally, the successful candidate must possess the ability to work closely with students, faculty, staff and administrators. Experience in program administration; knowledge of the University or campus-type community; and the ability to plan, coordinate and implement a variety of program activities and events across schools and departments is preferred.

Appendix C: Examples of sustainability initiatives at other leading institutions.

College and University Sustainability Best Practices

Below are examples of initiatives over the past six months at other colleges and universities that most likely were accomplished with the coordination of a sustainability office and dedicated staff. The examples include research, grants, contests, cost-savings initiatives, certifications, institutional planning, scholarships, and curriculum integration. These initiatives would be difficult to achieve at TCU without an individual dedicated to assessing our institution's mission, values, goals, and opportunities in the area of sustainability and coordinating the tasks required for implementation.

- Auburn U Introduces Aquaponics-Grown Food
- California State U Monterey Bay Staff Install Solar Electric
- North Carolina State U Students Test Paper Towel Composting Solution
- Capilano U Gets Fair Trade Campus Designation
- Texas A&M U Begins Labeling Compostable Material
- SUNY New Paltz Launches Sustainability Faculty Learning Community
- U Wisconsin Stout Approves Solar Installation
- U Nebraska-Lincoln Students Repurpose Aluminum Waste
- U Mississippi Offsets Electricity Use With Renewable Energy Certificates
- PepsiCo Recycling Names Eight Zero Impact Fund Winners
- Utah State U Initiates Recycling Education Week
- Northern Arizona U Begins Green Office Certification Program
- North Carolina State U Installs System to Reclaim Water
- Eastern Kentucky U Sets 2036 Carbon Neutrality Goal
- U Toledo to Test Building Renewable Energy Integration Technology
- U Illinois Chicago Upgrades Energy Dashboard
- U British Columbia Starts \$10M Sustainability Investment Fund
- U Nebraska Medical Center Sets 2030 Carbon Neutrality Goal
- U Reading Sets New Carbon Reduction Goal
- Colby-Sawyer & Green Mountain Colleges Create Path for Sustainability Graduates
- Central CC Partners With Utility on 1.7MW Wind Turbine
- Wilfrid Laurier U Gets Fair Trade Designation
- 2017 RecycleMania Sign-Ups Open
- Colorado State U Commits to 100% Renewable Energy
- U California, Irvine Converts Bus Fleet to All Electric
- The New School & North Carolina State U Students Win Cradle to Cradle Competition
- SUNY New Paltz Awards \$1.4M Toward Energy Projects
- Cornell U Connects Three New Solar Arrays
- Princeton U Art Museum Purchases Solar Powered Vehicles

- Concordia U Introduces First Sustainability Plan
- U Connecticut Announces New Sustainability Plan
- U Melbourne Unveils Four-Year Sustainability Plan
- Niagara College Launches Commercial Beekeeping Program
- Black Hills State U to Install Four Solar Energy Arrays
- U Georgia Moves to Clean Polluted Campus Lake
- Kansas U Students Build Certified Green Home
- Hope College Students Make Campus Recycling Video
- Cornell U Creates Animated Sustainability Video
- Dickinson College to Bring 3MW Solar Array to Campus
- Emory U Awards Micro-Grants to Sustainability Projects
- U Kentucky Allocates \$200K Toward Six Sustainability Projects
- CFP Championship Game Makes Strides to Reduce Impact
- U Pittsburgh Bookstore Implements BYO Bag Initiative
- Middlebury College Reaches Carbon Neutrality
- U California Irvine Stores Unused Renewable Energy
- Harvard U Achieves GHG Reduction Milestone Set in 2008
- Furman U Sustainability Center Receives \$500K for Fellowships
- Syracuse U Starts Sustainability Scholarship Grant Program
- U New Hampshire Organic Farm Launches Innovative Composting Operation
- Vanderbilt U Student Prompts Solar Electric Project
- Brandeis U Commences New Carpool Program
- Colby-Sawyer College Opens Center Devoted to Community-Based Sustainability
- Campbell U Joins Campus Kitchens Project
- Weber State U Unveils 2MW Solar System
- U South Queensland to Install 1.9MW Solar Electric Array
- Wesleyan U Celebrates Installation of 750KW Photovoltaic Array
- North Carolina State U Energy Competition Yields \$12K in Avoided Utility Costs
- Ruritan Valley CC Earns Bee Campus USA Designation
- U Texas El Paso Introduces Eco-Takeout Program
- Ball State U Shaves 20 Years Off Carbon Neutrality Date
- North Carolina State U Student Creates Campus Pollinator Garden
- Dickinson College Installs Beehives
- Marist College Dining Becomes REAL Certified
- U Iowa to Launch Water Sustainability Graduate Program with \$3M Grant
- Amherst College Sets Up Green Revolving Fund with \$2M Gift from Alumnus
- Southern Oregon U Class Explores Sustainability Through Art
- Prescott College Runs Solely on Renewable Sources for Electricity
- AASHE Announces Top Performers in 2016 Sustainable Campus Index
- U South Carolina & Clemson U Students Engage with Industry to Reduce Manufacturing Waste
- Rice U Dining Halls Receive Sustainable Restaurant Certification

- IUPUI & Butler U Win Sustainable Campus Competition
- U California Develops Climate Change Curriculum for Non-Science Majors
- Dartmouth College to Build Photovoltaic Demonstration Project
- Union College Installs EV Charging Station
- Rice U Sets New Waste Diversion Goal
- Suffolk CC Joins Community Car-Free Day
- U Michigan Hosts Zero Waste Event for 5,500 New Students
- U New Hampshire Stadium Transitions to Zero Waste