

BEST PRACTICES, Physical Plant - Utilities

Title: Energy Efficiency Program

155

Source: John Brown University

Co Area:

Addl Info: http://www.sacubo.org/sacubo_resources/best_practices/2003.html

Abstract: In 1994, John Brown University (JBU) began a program to reduce energy consumption and operational costs. The initial steps included a qualification and selection process to identify an energy services company to work hand in hand with university staff. Johnson Controls Inc. was chosen as their business partner. This partnership resulted in annual savings of over \$100,000 in energy consumption, and several building HVAC enhancements.

An intense building program was started in the summer of 2000. In order to ensure the best use of energy related to the systems selection, Vice President of Finance, Ms. Pat Gustavson and Facilities Director, Mr. Everett Easley initiated a study of alternative solutions for energy efficient building environments. This study included our energy partner to design the load profiles to compare equipment usage possibilities. The results of the study indicated substantial savings by providing chilled water and steam from a single, remote location using the latest technologies and energy efficient equipment. The study also included modifications to the electrical distribution system consolidating the entire campus into one meter.

JBU now provides chilled water and steam to the campus from a new Central Plant. The original utility savings estimates indicated \$296,000.00 per year but current analysis attributes over \$332,000.00 of savings annually. The square footage of the campus has dramatically increased while the energy usage has remained virtually the same. Total utility savings from 1994 through 2002 are in excess of \$1,029,000.

Energy efficiency has reduced the cost of operations and has provided a revenue stream sufficient to add buildings to the Central Plant distribution loops. Each connected building has systems redundancy and technologies unique to standard campus systems design. The Faculty, Students and Staff are now enjoying comfortable and clean building environments at a significantly reduced cost of operations.

BEST PRACTICES, Physical Plant - Utilities

Title: Energy Partnership

189

Source: University of West Georgia

Co Area:

Addl Info: http://www.sacubo.org/sacubo_resources/best_practices/2003.html

Abstract: The University of West Georgia (UWG), located in Carrollton, part of the 34-unit University System of Georgia. The University of West Georgia occupies a campus of 396 acres and was established in 1906. Current metrics of campus are 1.7 million square feet in 55 buildings. The majority of the buildings are between 20 and 40 years old with the oldest buildings dating to 1907. The campus is tree-lined, well maintained and in a residential setting on the west side of Carrollton, a city of 25,000 residents. Fall 2002 enrollment is 9,650 students and projected to reach 12,000 students within 10 years. The reality of an aging campus, inefficient energy systems and decreasing state budgets combined led us to consider new ways of addressing critical utility and maintenance issues in our facilities.

Based on conversations between the University of West Georgia and Siemens about energy control systems, we asked Siemens to participate as a member of our energy committee to tackle the issue of how to improve the learning environment, upgrade maintenance systems, save dollars on energy and generate capital funding for mechanical systems. The conversations led to a contract between Siemens and the University of West Georgia.

The University of West Georgia and Siemens have developed a true partnership in terms of managing our facilities. Our agreement allowed us to secure competent expertise to manage our mechanical HVAC systems. The contract with Siemens provided the personnel and technical assistance which brought with it a knowledge base that has helped improve the staff skills of the University of West Georgia and provided areas of expertise and knowledge the University would not have had available; for example, the State of Georgia is looking into performance contract issues. The University, has been able with Siemens help, to start investigating the possibility of future performance contract methods, which will ultimately save dollars. It has also put us 'in the loop' with State energy managers across the country.

BEST PRACTICES, Physical Plant - Utilities

Title: Energy Management System

287

Source: Elizabethtown College

Co Area:

Addl Info: http://www.bmpcoe.org/bestpractices/internal/etown/etown_1.html

Abstract: Prior to 1996, Elizabethtown College used an energy management system which featured early-1980 technology, energy management controls, and direct digital control in a few of the buildings. However, the outdated system lacked flexibility, was difficult to maintain, and could not provide the level of control required by the College. Repairs and replacement parts were also becoming expensive due to the systems age. A new system was required which could provide the flexibility to grow and expand with the constantly changing needs of the College. In 1996, Elizabethtown College installed the state-of-the-art Landis & Staefa System 600 Energy Management System (EMS).

Elizabethtown College chose the automated and centralized EMS as part of the Performance Contract for energy management. This campus-wide management system provides comprehensive energy management; automatic temperature control strategies; facility management reports; and improved response times to facility problems. The system is PC-based and runs in a Windows environment. Sensory and control system inputs are received by EMS from all over the campus. Energy use is monitored through individual meters in every building. Additional sensors monitor switches, pumps, water usage, valves, fans, building temperatures, and other key points throughout the campus. Most heating/cooling and critical EMSs can be controlled centrally from Elizabethtown Colleges Department of Plant Operations.

The new EMS was funded as part of the \$1.8 million Performance Contract with Landis & Staefa which guarantees an annual savings of \$247,000. By utilizing this state-of-the-art technology, Elizabethtown College reduced energy costs substantially; decreased response times; increased comfort levels and customer satisfaction; and improved facility management reporting.

Also see http://www.bmpcoe.org/bestpractices/internal/etown/etown_4.html

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Title: Lighting Efficiency # 288

Source: Elizabethtown College **Co Area:**

Addl Info: http://www.bmpcoe.org/bestpractices/internal/etown/etown_2.html

Abstract: Elizabethtown College has been a participant in the Environmental Protection Agency's (EPAs) Green Lights program since 1993. Green Lights is a voluntary pollution prevention program that encourages participants to use energy efficient lighting technologies to improve lighting quality and reduce environmental emissions in their facilities. Partners in the Green Lights program sign a Memorandum of Understanding (MOU) whereby they agree to conduct lighting surveys of their facilities, identify areas where existing lighting can be upgraded, and complete all lighting upgrades that are financially advantageous to their organization.

Elizabethtown Colleges Department of Plant Operations conducted detailed lighting audits and/or surveys of 681,000 square feet of classroom, office, laboratory, assembly, and dining service space. As of April 1997, 554,000 square feet of this space (85% of the total campus) had been upgraded. These efforts included replacing mercury vapor lighting with metal halide; upgrading all indoor fluorescent fixtures to T-8 fluorescent lamps with electronic ballasts; and using high-pressure sodium fixtures for outdoor lighting. Plant Operations replaced 9,000 lighting fixtures across the entire campus, and installed motion sensors where applicable.

Title: Performance Contract # 289

Source: Elizabethtown College **Co Area:**

Addl Info: http://www.bmpcoe.org/bestpractices/internal/etown/etown_3.html

Abstract: Funded through the Department of Energy's Institutional Conservation program, Elizabethtown College conducted energy audits of all campus facilities. The audits identified potential improvements that could save the College up to \$300,000 annually in energy costs. However, capital investment to implement the projects was estimated at \$1.3 million. Since the Department of Plant Operations successfully demonstrated credibility and cost reductions through several small-scale energy projects, Elizabethtown College was confident that the additional \$300,000 in savings was attainable if sufficient resources could be allocated to the effort. As a result, Elizabethtown College negotiated an energy-saving Performance Contract which enabled the College to complete \$1.8 million in energy efficiency improvements and maintenance projects, and receive a guaranteed energy cost savings of \$181,000 per year.

The Performance Contract is not a shared savings agreement. Instead, savings are guaranteed at a level substantiated by Elizabethtown Colleges energy audit reports. Financing for the project is provided through a bond issue with a 5% interest rate, and all savings are applied toward the debt. The College controls the selection of subcontractors; determines the energy management system (EMS) installed under the contract; and defines the comfort levels of all buildings managed by the system. Plant Operations can add control points and adjust set points within EMS, and informs the contractor of any actions. Ongoing consulting services and incorporated fees were also negotiated to ensure that technical support from the contractor provided a meaningful impact on the effectiveness of operations.

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Title: Water Conservation Program # 355

Source: Department of Defense Quality Management Program **Co Area:**

Addl Info: <http://quality.disa.mil/case/CaseStudyRecord.cfm?ID=23501>

Abstract: Iwakuni MCAS, Japan
Old Process: A complete station-wide water leak study had never been done. Many of the pipes on the air station were very old and prone to leaking. Leaks are hard to detect because the water table is very near the surface and the soil is sandy. Leaks were occurring and water was being wasted. There was no comprehensive plan in place to do station-wide audits of the use of utilities or regular monitoring of water consumption.

New Process: There are outreach and training programs. The annual Energy Awareness Week focuses attention on the need for water conservation. Energy monitors check on water usage and issue notices on leaky faucets and fixtures, unattended running hoses. Several water conservation initiatives have been implemented. Water pressure has been reduced and water saving devices have been installed in all residential areas and temporary lodging areas. There are annual station-wide audits. Water usage is monitored daily for any irregularities. If any are found, a water leak survey is done to find leaks. In FY 2000 an extensive water leak survey was done which found leaks whose flow was equivalent to a loss of over 29 million gallons in a year.

Results: The Conservation Program has resulted in water costs being reduced by 7% in FY 2001 and over 8% in FY 2002.

08/08 - Website down at this time

Title: Energy: Efficiency Measures # 369

Source: Colby College **Co Area:** IRM

Addl Info: <http://www.colby.edu/green/documents/GrnComputing.doc>

Abstract: Steps taken to reduce energy: purchasing energy efficient computers and peripherals, configuring energy management options on all machines, and raising environmental awareness by producing instructional pamphlets and online resources, which offer green computing guidelines for students, faculty, and staff. Additionally, we worked to reduce the environmental impact of our paper use by distributing printers capable of duplex printing, and purchasing 100% recycled paper. Colby also donates usable older computers, while unusable equipment is properly disposed of in environmentally responsible ways. These initiatives have been successful in reducing electricity demand and resource waste.

The EPA has estimated that using the 'sleep mode' on computers nationwide would reduce their energy use by 60% to 70%. This could save enough electricity each year to power Vermont, New Hampshire and Maine, cut electric bills by \$2 billion, and reduce CO2 emissions by the equivalent of five million cars. We felt that if the Colby community turned its printers and computers off overnight and on weekends, over \$42,000 could be saved annually

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Title: UCI Utilities Deficit Reduction Plan # 442
Source: University of California Irvine **Co Area:**
Add Info: <http://www.abs.uci.edu/UtilitiesDeficit2005.doc>
Abstract: The campus' utilities budget purchases electricity, natural gas, water, and sewage disposal for State-maintained space. In 2005-06, the allocated utilities budget will be \$13.6 million. The actual cost of utilities for State-maintained space is projected to be \$16.3 million, resulting in a deficit of \$2.7 million. This deficit is driven by two major factors:

- Utilities allocations have not recognized price increases over the last five years, exacerbated by...
- the opening of energy-intensive research buildings with greater-than-budgeted utilities consumption

This plan is organized into six sections:

1. Causes, scale, and intractability of the utilities deficit.
2. Measures that can be enacted within two months (including actions already implemented).
3. Measures that can be enacted within one year (including a number of measures that will require a capital investment by the campus in order to realize needed savings).
4. Measures that can be completed within two years (all require a capital investment, of which the majority has already been approved by the campus).
5. Risk factors that could improve or reduce deficit relief.
6. A summary comparing all planned and proposed actions against projected deficits.

Title: Statewide Energy Management Program # 448
Source: California's Community Colleges **Co Area:**
Add Info: <http://www.deanza.edu/es/energymgmt.html>
Abstract: Working with its California community college (CCC) customers, the Statewide Energy Management Program (SEMP) will spearhead the formidable task of reducing total energy use by the CCC System and its 107 campuses statewide. Its mission will be to reduce the cost of CCC operations and education by advancing energy efficiency, resource conservation, and the use of solar and other renewable energy resources. SEMP will contribute to the welfare of the State by providing economic and technical resources to achieve efficiency in energy use, diversity of energy sources, and a more productive and competitive CCC workforce.

CCCs have the infrastructure in place to reach every region of California through distance learning, satellite and cable networks. Through this extensive network of educational delivery methods, SEMP will provide accessible public education on energy efficiency and resource conservation strategies, all in an effort to promote sustainability policies and standards for California's schools, colleges and universities that exceed current state guidelines and meet the objectives of the Governor's Executive Orders. With SEMP leading the way, CCCs will have the skills, the means, and the initiative to undertake projects that save energy, resources, and money. SEMP will also set an example for the State by transferring best practices to other institutions of higher learning, the state public school system and ultimately to the private sector.

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Title: Center for Sustainable Energy **#** 468

Source: Bronx Community College **Co Area:**

Addl Info: <http://www.bcc.cuny.edu/InstitutionalDevelopment/CSE/>

Abstract: The mission of the Center for Sustainable Energy at Bronx Community College is to promote the use of renewable and efficient energy technologies in urban communities through education, training, workforce development, research, and project facilitation. The Center supports clean energy development and energy conservation as the means to protect the environment, enhance public health, and position New York City to capture emerging economic development opportunities in the energy sector.

*Serve as a clearinghouse of information on energy conservation and renewable energy through its website and newsletter.

*Coordinate conferences, workshops, seminars and meetings for businesses, government representatives and consumers to advance energy conservation and renewable energy development.

This is a large site with LOTS of energy related links.

HVAC BEST PRACTICES - http://www.bcc.cuny.edu/InstitutionalDevelopment/CSE/PowerPoint/Condensing_Boilers.ppt

Title: Energy Efficiency **#** 491

Source: State University of New York **Co Area:**

Addl Info: <http://www.suny.edu/SUNYNews/efficiency.cfm>

Abstract: From the above site, scroll down to Energy Efficiency

SUNY's energy conservation program began in 1972, when the Oil Embargo inspired increased energy efficiency worldwide. Since then, SUNY has reduced its energy use by 36 percent and saved more than \$1 billion in cost avoidance measures through FY 04-05. The methods used to reduce energy use and achieve these savings have ranged from shutting off lights and heating, ventilation, and air conditioning (HVAC) systems when not needed to using energy savings to pay for over \$100 million in upgrades to more efficient lighting and HVAC systems.

Continues to <http://www.suny.edu/sunynews/efficiency2.cfm>

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Title: Energy Efficiency Best Practices Project # 493

Source: Pacific Gas and Electric Company **Co Area:**

Addl Info: <http://www.eebestpractices.com/index.asp>

Abstract: Energy efficiency programs have been implemented by various organizations for over twenty-five years. Programs have evolved and improved by taking advantage of both formal and informal communication of program features and lessons learned. The Energy Efficiency Best Practices Project seeks to build off this experience and knowledge by establishing a structure for analyzing and communicating best practices to help meet today's complex energy challenges.

The purpose of this best practices project is to develop and communicate excellent practices nationwide in order to enhance the design, implementation, and evaluation of energy efficiency programs. The project uses a benchmarking methodology to identify best practices for a wide variety of program types.

A number of products have been developed through this best practices project.

Also see <http://www.eebestpractices.com/links.asp> for Energy Efficiency Links

Title: School Operations and Maintenance: Best Practices for Controlling Energy Costs # 598

Source: State of Arizona **Co Area:**

Addl Info: <http://www.azdeq.gov/function/about/download/greenguide2.pdf>

Abstract: Operations and maintenance (O&M) offers not only strategies for maintaining facilities, but also opportunities for reducing energy costs and increasing energy efficiency at existing schools, regardless of age. This Guidebook provides detailed and practical guidance on how K-12 school districts can plan and implement enhancements to their current O&M programs that can successfully maintain their facilities while also reducing energy costs up to 20%. Most of the energy management strategies detailed in the Guidebook entail limited capital costs and produce rapid paybacks, in most cases, of less than two years.

This Guidebook is intended for school district facilities management staff and school business staff (including Superintendents and School Board Members) who have the authority to implement such a program. School-based maintenance and custodial managers may also use this resource to help them identify and understand program details and to see the contribution they can make to the new O&M effort.

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Title: O&M Best Practices - A Guide to Achieving Operational Efficiency # 599

Source: State of Arkansas **Co Area:**

Addl Info: http://www.arkansasedc.com/business_development/energy/index.cfm? (Original URL no longer valid)

Abstract: This Operations and Maintenance (O&M) Best Practices Guide was developed under the direction of the U.S. Department of Energy's Federal Energy Management Program (FEMP). The mission of FEMP is to reduce the cost and environmental impact of the federal government by advancing energy efficiency and water conservation, promoting the use of distributed and renewable energy, and improving utility management decisions at federal sites. Each of these activities is directly related to achieving requirements set forth in the Energy Policy Act of 1992 and the goals that have been established in Executive Order 13123 (June 1999), but also those that are inherent in sound management of federal financial and personnel resources.

Release 2.0 of this guide highlights O&M programs targeting energy efficiency that are estimated to save 5% to 20% on energy bills without a significant capital investment. Depending on the federal site, these savings can represent thousands to hundreds-of-thousands dollars each year, and many can be achieved with minimal cash outlays.

Title: Performance Contracting # 638

Source: Multiple Sources **Co Area:** Purchasing Department

Addl Info: [Various](#)

Abstract: RESOURCE
RFP - <http://www.eiu.edu/~physplnt/Documents/pdf/EIURFP1.pdf>
RFP - <http://www.sullivan.suny.edu/services/purchasing/Energy%20Performance.htm>
Employee - <http://www.msdc.edu/facstaff/hr/documents/forms/pdf/PerformanceContracting.pdf>
<http://terp.tamu.edu/docs/TERP%20II%20-%20Financing%20-%20Sempra.ppt>
http://www.usao.edu/~usao-news/spring-02/energy_saving.html
https://fei.psu.edu/ESCO/IFMA_PSFC_SpringConf_May2004.ppt
<http://www.news.ku.edu/2002/02N/JanNews/Jan22/energy.html>

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Title: Worst Practices - Guide for Energy and Environmental Management # 644

Source: Government Office for the South West of England **Co Area:**

Addl Info: http://www.energystar.gov/index.cfm?c=healthcare.ashe_jan_feb_2005

Abstract: To err is human. We all make mistakes but the most successful companies learn from them. This 'worst practice' guide is intended to help you learn from the mistakes that others have made, so that you can identify and avoid them. Alternatively, you could follow all the guidance and really mess up!

Worst practice is the synergistic combination of many elements of bad practice. Having just one or two elements of bad practice doesn't lead to worst practice status. What you need to have is a range of bad practices that can 'support' and 'multiply' each other. For example, sometimes doing nothing is worse than doing the wrong thing! It can be argued that often the reason for doing nothing is a failure to identify the risks and opportunities facing the organization. A good measure of ignorance is always helpful if you are seeking to attain worst practice status, but to be really bad you need to work at it! Many organizations can recover from the odd element of bad practice. To achieve legendary worst practice status you need to exceed expectation in a number of areas!

Title: ENERGY STAR for Higher Education # 649

Source: Environmental Protection Agency **Co Area:**

Addl Info: http://www.energystar.gov/index.cfm?c=higher_ed.bus_highereducation

Abstract: Colleges and universities spend close to \$2 billion each year on energy

Adopting a strategic approach to energy management can lower your energy bills by 30% or more. ENERGY STAR brings you a proven energy management strategy to distinguish your institution as an environmental leader and save money for repair and renovation, hiring of new faculty, new construction, and other core activities.

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Title: Best Practices to Save Energy Costs # 774

Source: California Green Solutions **Co Area:**

Addl Info: <http://www.californiagreensolutions.com/cgi-bin/gt/tpl.h,content=225>

Abstract: Companies have diverse facilities and operations, so "best practices" need to reflect those diverse solutions. Here is a list of some options that have been applied by companies recognized by California's Department of Energy for their "Best Practices" success.

Set standards and specifications that optimize energy efficiency in equipment, operations and physical plant investments.

Design buildings and processes to minimize use of energy.

See above site for complete list. To review complete "Best Practices" by each corporation recognized by the Department of Commerce, click link at bottom of the page.

Title: Controlling the Pieces # 825

Source: University of North Florida **Co Area:**

Addl Info: http://www.sacubo.org/sacubo_resources/best_practices/2007.html

Abstract: The operation of the central plant at the University of North Florida is a 24 hour operation that is fully manned for only one shift per day and no weekends. In order to obtain optimal performance from the central plant, provide adequate capacity for campus demand, provide the ability to respond to continued campus growth and rising energy prices, the UNF central plant had to learn how to control the pieces. The plant evolved into the operation and facility that is now, due to a desire of Physical Facilities to survive. In the not distant past, the central plant in July of 1999 was operating in a state of near calamity or disaster on most days. The central plant equipment then consisted of 4 centrifugal chillers and two large Scotch Marine boilers in varying states of disrepair and poor efficiencies. All of the plant equipment was controlled via an Andover 256 control panel that only provided rudimentary on and off control for the plant systems. Essentially the central plant was controlled by HVAC Mechanics who functioned as human thermometers and Program Logic Controllers (PLC).

Over the previous 5 years, changes to the central plant and upgraded BAS in campus buildings have allowed Physical facilities to slash the sheer number of temperature complaints by greater than 70%. This was achieved with the ability to providing consistent pressure and temperature in both the hot and cold water distribution systems, better humidity control as a result of a consistent 45 degree supply cold water temperature and year round heating hot water to properly use the reheat systems.

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Title: Energy Program # 832
Source: Baylor University **Co Area:**
Addl Info: <http://www.nacubo.org/documents/about/BaylorSubmission.pdf>
Abstract: 2007 NACUBO Innovation Award Winner
Baylor University in Waco, Texas entered into an innovative electrical procurement contract that will save over \$2 million annually, provide a predictable expenditure pattern, and support the development of wind generation farms.

Title: Building Energy Conservation Program # 896
Source: University of Georgia **Co Area:**
Addl Info: http://www.sacubo.org/sacubo_resources/best_practices_files/2008_files/Building-Energy-Conservation-Program.pdf
Abstract: The University of Georgia (UGA) has implemented a building energy conservation program which entails the auditing of buildings to identify items that can be implemented at a reasonable cost using internal funding and personnel. The program began strictly as an energy cost-saving mechanism in response to large, unanticipated (and unbudgeted for) energy cost increases. However, as the program evolved and continued, the collateral benefits for the environment in terms of reduced carbon dioxide emissions and other areas also were recognized as positive outcomes from this program.

The UGA energy audit program now is being used as a model for developing similar programs at universities and colleges across the University System of Georgia.

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Title: Best Practices Review: Reducing Energy Costs in Local Government

918

Source: State of Minnesota - Office of the State Auditor

Co Area: University Wide

Addl Info: http://www.auditor.state.mn.us/reports/gid/2008/bestpractices/bestpractices_08_report.pdf

Abstract: In 2004, the Minnesota State Legislature gave the Office of the State Auditor the responsibility of conducting best practices reviews that “examine the procedures and practices used to deliver local government services, determine the methods of local government service delivery, identify variations in cost and effectiveness, and identify practices to save money or provide more effective service delivery.” The best practices reviews are to include recommendations to “improve the cost-effectiveness of services.”

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Appendix 1: Best Practices in Reducing Energy Costs Survey.

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Title: OSU energy program saves nearly \$1.4 million

921

Source: Oklahoma State University

Co Area:

Addl Info: http://osu.okstate.edu/index.php?option=com_content&task=view&id=992&Itemid=1

Abstract: The comprehensive energy conservation initiative launched last year saved nearly \$1.4 million in five months and is already exceeding savings goals. The conservation program is being implemented in conjunction with Energy Education, Inc., (EEI), a Texas company founded by OSU alumnus Dr. William Spears.

A diverse team of EEI engineers and conservation specialists work with OSU energy managers and Physical Plant Services and Building Systems Group staff at every campus, continuing to implement key conservation practices, assessing buildings, mechanical systems and equipment, operating techniques and occupancy patterns. The energy managers guide conservation efforts for faculty, staff and students throughout the system.

“The energy management team revises heating, ventilation and air conditioning schedules and the air handling systems to accommodate occupancy,” said Dr. David Bosserman, OSU vice president of administration and finance. “Coordinating schedules for when people are actually inside has significantly reduced energy consumption.”

“The team has done a great deal of work with electricity usage issues, and created a strategic plan for every building that includes implementation procedures,” Dr. Bosserman said. “They’re communicating the standardized best practices to our employees on every campus, and they’ve created a website with OSU’s energy guidelines as well as the energy managers’ contact information for people who have questions or are interested in group presentations.

OSU’s conservation program is designed with four primary goals:

1. Eliminate energy waste and significantly reduce the university’s carbon footprint, which will mean a net savings to the OSU System of \$22 million over seven years.
2. Maintain comfort and safety in occupied areas with customized and dynamic operational plans for each campus.
3. Ensure a desirable/optimal educational environment, developing a partnership with the campus community.
4. Establish a sustainable conservation program, being sensitive to the social, environmental and economic benefits of energy conservation.

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Title: People-Oriented Energy Conservation # 969

Source: Oklahoma State University **Co Area:**

Addl Info: http://www.sacubo.org/sacubo_resources/best_practices_files/2009_files/PDFs/09_BP_People_Oriented_Energy_Conservation.pdf

Abstract: In an era of ever-increasing budget needs and concern for preservation of natural resources, OSU determined to take a leadership position in higher education energy conservation by opting to initiate a behaviorally-based energy conservation program for all campuses in the OSU System. This people-oriented initiative requires no capital investment, and is not only self-funding from the start, but preserves funds for educational purposes. With the firm belief that “buildings don’t use energy people do,” university leadership opted to implement a customized version of a people-oriented, non capital investment, behavioral-based energy conservation program that would involve participation and buy-in from every person at every OSU campus. Goals -

1. Eliminate energy waste and significantly reduce the university’s carbon footprint, which will result in net savings to the OSU System of \$22 million over seven years.
2. Maintain comfort and safety in occupied areas with customized and dynamic building operational plans for each campus.
3. Ensure a desirable/optimal educational and research environment, developing a partnership with the campus community.
4. Establish a sustainable conservation program, to maximize the economic, environmental and social benefits of energy conservation.

Title: Every Drop Counts: Implementing Effective and Sustainable Water Conservation # 975

Source: University of Georgia **Co Area:**

Addl Info: http://www.sacubo.org/sacubo_resources/best_practices_files/2009_files/PDFs/09_BP_Every_Drop_Counts-Water_Conservation.pdf

Abstract: The success of the “Every Drop Counts” campaign is largely due to two factors: 1) the implementation of operational changes by the Physical Plant, including the installation of water-saving devices; and 2) the effectiveness of an awareness campaign to change the habits of faculty, staff and students. This combination yielded impressive benefits that continue today: water savings of more than \$250,000 and a 28 percent reduction in consumption (18 percent more than the reductions mandated by the Governor). Much of the savings have resulted in the research arena, where faculty members have collaborated with the Physical Plant staff to identify and implement solutions to water-wasting practices. True to its mission as a land-grant and sea-grant institution, the University of Georgia continues to serve as a role model by not only reducing its own water consumption but also by demonstrating to the citizens of the state through teaching, research and service how water conservation can be improved statewide.
