

# U.S. Department of Energy Sustainability Performance Office DOE Sustainability SPOTlight

Issue 9 May 2012

## SUSTAINABILITY NEWS

### Earth Day Every Day 2012

DOE's 2012 Earth Day theme was "Earth Day, Every Day! Changing Behavior to Reduce DOE's Carbon Footprint." The week-long celebration included an outdoor Community Day celebration with exhibits from program offices, a live band, interactive displays, educational games, a UNICOR recycling center, a farmer's market, and a BBQ from the Forrestal cafeteria. Throughout the week, DOE featured environmental films, speakers, green bag lunches, nature walks, tree plantings and interactive displays for employees. Read about outstanding employees for the environment at <http://energy.gov/articles/earth-day-leading-example>.



Earth Day Celebration, [www.earthday.org/2012](http://www.earthday.org/2012)

### NNSA Pilots "RightPath" for Cloud Computing

NNSA is currently piloting RightPath, a virtual workforce framework designed to enable employees to work on a device of their choice. Leveraging cloud computing technology and services, RightPath provides a secure platform that gives users autonomy to deploy, manage, and secure workloads within their own cloud enclaves while leveraging a common platform. It establishes a formal partnership between the DOE OCIO and the NNSA OCIO and was featured at this year's Information Management Conference in Dallas, TX. More information on RightPath will be available soon at [nnsa.energy.gov](http://nnsa.energy.gov).

### Information Management Conference

The 2012 Information Management Conference took place April 16-20, 2012 in Dallas, Texas. This year's conference focused on enabling DOE's mission through partnerships in collaboration, cybersecurity, innovation and governance. Townhall events and select presentations were streamed live via web-ex for those who could not attend in person, marking the first time this capability has been utilized in a conference setting.

### ORNL Publishes its First Annual Sustainability Report

ORNL Sustainable Campus Initiative (SCI) recently published its first Annual Sustainability Report. The report will serve to inform neighboring stakeholders such as Congressional and State officials, municipalities, universities and colleges, public and private schools, and other industry partners of ORNL's commitment to being an enduring and sustainable organization within East Tennessee. To view the report, click [here](#).



(left to right): Cheryl Cejka, Terry Brog, Iris Anderson, Allison Campbell, Larry Maples, and Suresh Baskaran.

## SUSTAINABILITY SUPERSTARS

### Send us your champion!

Two members of DOE were recently honored at the Federal 100 Awards which recognize government and industry leaders in the Federal IT community.



**DOE CIO, Michael Locatis**, was honored for his impact on the collaborative cybersecurity approach he has taken

across the department and throughout the federal government, in particular the creation of the Joint Cybersecurity Coordination Center.



**Peter Tseronis, Chief Technology Office for the CIO** won for his keen eye on ensuring that new technologies were piloted and, if

successful, implemented across the government.



**Beverly Whitehead** for her efforts coordinating Earth Week 2012 at DOE.

### PNNL Sustainability Team

Team members spearheaded a plan to increase energy efficiency in buildings and data centers, reduce emissions in employee commuting and business travel, and develop a model for informed decision making using the Triple Bottom Line— economic, environmental and social performance framework.

**DID YOU KNOW?** Power management on computers can save up to \$50 annually. ENERGY STAR Power Management features — standard in Windows and Macintosh operating systems — automatically place monitors and computers (CPU, hard drive, etc.) into a low-power "sleep mode" after a period of inactivity. Simply touching the mouse or keyboard "wakes" the computer and monitor in seconds. Read more at [http://www.energystar.gov/index.cfm?c=power\\_mgt.pr\\_power\\_mgt\\_low\\_carbon\\_join](http://www.energystar.gov/index.cfm?c=power_mgt.pr_power_mgt_low_carbon_join).

## UPCOMING EVENTS AND MILESTONES

### BIG EVENTS

Aug 19-22: [GovEnergy](#)

June 29: DOE SSPP Due

Sept 24-26: [GreenGov](#)

Sept 27: DOE Sustainability Awards

### AWARDS NOMINATION DUE

May 2: [Federal Energy & Water Management Awards](#)

June 1: DOE Sustainability Awards

June 1: [GreenGov Presidential Awards](#)

### COURSES AND CONFERENCES

May 1-3: [ESPC Comprehensive Workshop](#)

May 3: [FEMP Training on Energy Security](#)

May 15-17: [Environmental Laws and Regulations Course](#)

May 21-23: [Oceans, Climate, and Security](#)

May 21-24: [Environmental Nexus](#)

May 22: [Technology series](#)

May 22: [Introduction to UESC](#)

June 7: [ESPC for Small Sites](#)

June 13-14: [Green Roofs class](#)

June 19: [DCPro](#)

June 25-26: [National Security and Climate Change](#)

June 25-28: [FedFleet](#)

June 25-29: [Environmental Conf](#)

July 12: [FEMP Training on Implementing Deep Retrofits](#)

Aug. 19: [GovEnergy Data Centers](#)

Aug. 19: [GovEnergy PM](#)

Aug. 23: SPO Sponsored Training Day at GovEnergy

## SUCCESS STORIES

### Two Green Buildings at Argonne

The U.S. Department of Energy's Argonne National Laboratory recently received green building designations for two of its facilities. The Center for Nanoscale Materials (CNM) obtained Leadership in Energy and Environmental Design (LEED) Silver certification and Building 438, a laboratory and office module, became the first existing building on Argonne's site to be upgraded to meet High Performance Sustainable Building (HPSB) requirements.

Constructed in 2007, CNM was designed and built to meet LEED standards. The building uses water efficient fixtures, resulting in 32.9 percent less water usage, and has seen energy savings of 27.5 percent, partly as a result of waste heat recovery and use — heat that is generated by scientific equipment is reused to heat the CNM facility.

Building 438's high performance modifications include upgrades to lighting systems and plumbing fixtures, and the inclusion of a heat recovery system. T-12 fluorescent lighting was replaced with light-emitting diode (LED) fixtures, providing a 60 percent reduction in lighting energy consumption thus saving 77,107 kWh of energy and \$4,050 per year. Replacement of restroom fixtures will produce additional savings of 49,150 gallons of water and \$130 each year. However, perhaps the most innovative improvement was the use of waste heat generated by the Advanced Photon Source's scientific tools and instruments to pre-heat outdoor ventilation air. This modification is projected to result in savings of approximately 125 million Btu of energy and \$575 per year.

Principle Facilities Specialist Ron Tollner said, "LEED certification is a great achievement and something that takes a team of multi-discipline individuals to reach." For more information, contact Devin Hodge at [dhodge@anl.gov](mailto:dhodge@anl.gov).



## SUCCESS STORIES

### Sandia's Green Team

Sandia National Laboratories is home to the CFO and Business Operations Division Green Team. Created in 2009, the volunteers meet monthly to improve the environment at Sandia. The team is supported by Sandia environmental programs' subject matter experts. The Green Team is promoting the use of post-consumer recycled goods, recycling and reducing energy.

In 2011, the Green Team was awarded Sandia's Environmental Management System's Excellence Award in the category of Risk Mitigation and Environmental Protection for its efforts in support of environmental projects and sustainability awareness. One of the projects included improved recycling processes at a Sandia facility. About 500 pounds of mixed paper and 1,500 pounds of cardboard are now diverted each month from the city landfill.

Another effort called "NightWatchman" is a computer power-management system that employs a standby mode during off-hours. The energy reduction is over 50% in just nine months of use. The remarkable effect has SNL adding several thousand more computers to the NightWatchman system by the end of the year. For more information, contact Meaghan Carpenter at [mscarpe@sandia.gov](mailto:mscarpe@sandia.gov).



From left to right, Argonne team members who worked on the CNM LEED certification project: Phil Rash, Ron Tollner, Marvin Kirshenbaum, Amanda Petford Long, George Norek

**DID YOU KNOW?** Switching to network printers can save energy. DOE EERE plans to achieve and maintain a ratio of 1 printer to 15 people or better and an evening workspace shutdown log. Read more at [http://energy.gov/sites/prod/files/Energy\\_Conservation\\_Plan-EE.pdf](http://energy.gov/sites/prod/files/Energy_Conservation_Plan-EE.pdf).



U.S. DEPARTMENT OF  
**ENERGY**

Sustainability Performance Office  
[sustainability@hq.doe.gov](mailto:sustainability@hq.doe.gov)  
202-586-8645

Sharepoint: [www.tinyurl.com/doesustainabilitysharepoint](http://www.tinyurl.com/doesustainabilitysharepoint)

