

SUSTAINABILITY E-NEWSLETTER

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DEPARTMENT OF
CENTRAL SERVICES,
OFFICE OF FACILITIES MANAGEMENT

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Green Fingerprint Sustainability Commitment:

"We, the public servants of the state of Oklahoma, are hereby committed to the conservation of resources and the protection of future generations through the promotion and implementation of sustainable business practices."



Epitome of Efficiency

The renovation of the CAP Building aimed to drastically improve the operational efficiencies of one of DCS' least-efficient buildings while preserving 95% of the original structure. Plans included the addition of renewable energy as well as to position the building as a candidate for Leadership in Energy Efficiency & Design (LEED) Gold Certification. The official certification will mark a first for state-owned buildings in Oklahoma. A 10-kilowatt (kW)



The CAP Building is located at 50 NE 23rd St. in Oklahoma City

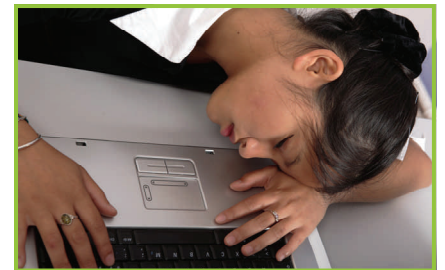
wind turbine, 60-kW of photovoltaic (PV) solar panels, and geothermal heat pump technology were incorporated into the renovation not only to provide clean, grid-connected energy, but to set a precedent that encourages renewable energy use in major renovation/construction projects. The wind tower and solar parking structures are easily visible from the nearby Interstate highway 235 and serve as a constant reminder of DCS' commitment to sustainability.



Shut-down & Stand-by

Most can identify with the idea of "saving energy at work" in one way or another; however, the easiest (and usually most significant) way to save is by managing your computer's power settings.

According to [the EPA](#), energy use in commercial buildings accounts for 17% of U.S. greenhouse gas emissions, at an energy cost of more than \$100 billion per year. By simply set-



"Saving Energy at Work" can have a variety of meanings.

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How Does It Work?: Daylighting

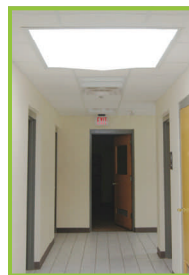
The CAP building recently underwent a major renovation to maximize the efficiency of one of the *least* efficient buildings in the Capitol complex.

The project managers sought to incorporate natural lighting in cooperation



with a Lutron lighting control system and daylighting sensors. Daylighting, is the practice of using natural (outdoor) light to illuminate interior building spaces. Mike Molinski LEED AP, recently wrote in Sustainable Facility Magazine that “daylighting reduces the need for electric lighting and is meant to create a more calm and productive environment.” Molinski’s statement highlights the dual-functions and benefits of a properly managed daylighting plan.

The CAP building features a wealth of natural lighting from two full walls of triple-pane windows and state of the art, high-performance skylights. Architects and designers




have used passive skylights (no moving parts) for natural lighting for years; however, not until recently was a solar-powered, sun-tracking sky-

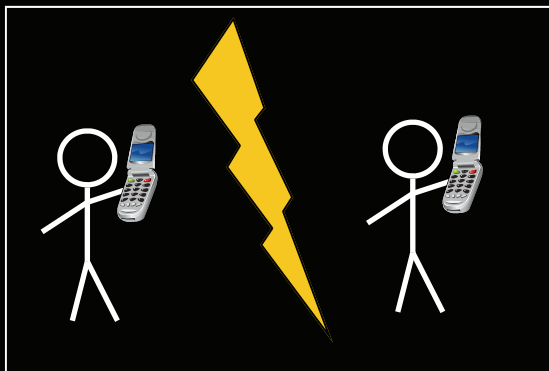
light available. These GPS-integrated devices



produce up to ten times more light than a passive skylight by tracking the location of the sun and directing it’s rays indoors.

For questions about daylighting or other features at the CAP building, please contact Thomas Bowman. 

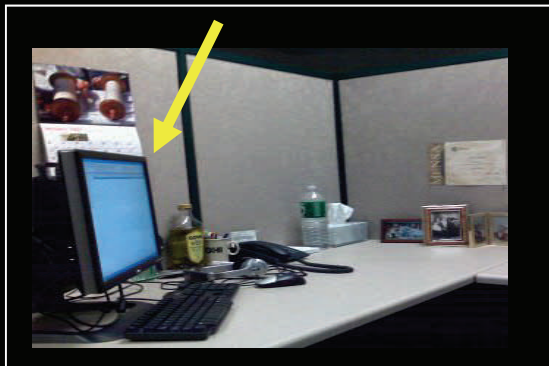
Free on Nights & Weekends.



Free on Nights & Weekends.



Free on Nights & Weekends??



Please remember to shut down all non-critical computers after work & over weekends!



DCS Recycling: *Re-Invent Your Print!*

The new “Re-Invent Your Print!” recycling program began at the Capitol on Earth Day. Stations for aluminum, plastic, and cardboard recycling were set up throughout the building and each Capitol employee received a desk-side bin for paper.


Amy Sparks, Chief of Staff in the State Treasurer’s Office, commended DCS’s recycling program, calling it a “responsible and smart cost savings plan.” Sparks went on to say, “The case for recycling is strong and the bottom line is clear;

DCS’s recycling efforts at Oklahoma’s state capitol not only reduces our government carbon footprint, the efficiency initiative saves taxpayer dollars.”


The expansion of recycling efforts includes numerous materials previously not accepted (such as: mixed paper, newspapers, and magazines). By *increasing* the amount that is recycled, we are also *decreasing* waste going into the Capitol’s trash dumpsters and on to the land fill.

At over 1,000 pounds per bale, it’s easy to see the magnitude of the

choice to place items in the recycle bin rather than the wastebasket. The EPA estimates that 40% of all garbage is made of highly-recyclable paper and paperboard. Garbage services are charged by the cubic yard; in addition to freeing up valuable landfill space, recycling saves money!

Buildings currently participating in the recycling program are the Capitol, Governor’s Mansion, Will Rogers, Sequoyah and the DHS-CAP building. Watch for service in other Capitol Complex buildings soon. For information about the *Re-Invent Your Print!* recycling program, please contact [Liz Haigh](#) at (405)521-3315. 



In an effort to make events in the Capitol Complex as waste-free as possible, DCS has added *Clearstream* bins to our recycling bin inventory. These portable, reusable, and easily storable bins allow for easy set-up, collection, and transport of aluminum and plastic containers collected at indoor or outdoor events such as picnics, conventions, or exhibitions. 



Epitome of Efficiency (cont’d)

(Continued from page 1)

The geothermal heat pumps, however, can only heat or cool as efficiently as the structure’s envelope will allow, especially in a climate regularly reaching both temperature extremes. The new system coupled with high-performance roofing, blow-in insulation lining exterior walls, and triple-pane windows offer optimal heating & cooling efficiency during hot or cold seasons. An Energy Recovery Unit (ERU) further improves efficiency by “pre-heating”




60 kW of PV solar panels on covered parking structures

or “pre-cooling” the air used to heat or cool the building.

The CAP building’s restrooms were designed to maximize water savings and minimize waste paper

through the use of high-performance hand-dryers, automatic, 0.5 gallons per minute (gpm) faucets, low-flow toilets with automatic flush valves, and water-free urinals. Future landscaping plans incorporate native plants & grasses to ensure efficient water use in both the interior of the building and on the surrounding grounds.

To learn more about the CAP building’s daylighting features, see [How Does It Work?](#) on page 2 or contact [Thomas Bowman](#). 

RE-INVENT YOUR PRINT!

Energy Champion Spotlight



Fenton Rood is not your average Energy Champion; Fenton Rood is “an environmental professional and recycling is [his] technical specialty.”

Currently, Rood serves as the Director of Waste Systems Planning for the Oklahoma Department of Environmental Quality (ODEQ). He assisted in developing the Superfund program in Oklahoma to clean up abandoned hazardous waste facilities.

Rood and his wife operate natural food stores and restaurants adding to more than twenty years of work in the organic foods business. If he doesn't sound like the *Ultimate Energy Champion* yet, Fenton also teaches Environmental Science at Oklahoma University & the University of Phoenix. We appreciate your support, Fenton! 🌱

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Recognized by the
U.S. EPA for the
superior energy
management of
our buildings



First of all, a very special ‘thank you’ goes out all DCS tenants & their agency’s leadership for their enthusiasm in contributing to energy savings and improving efficiencies in their respective buildings. During many time-consuming and sometimes noisy projects, building tenants have shown great patience and deserve recognition for their participation.

DCS was named an Energy Star Leader for producing a 10% improvement in Energy Star rating. The eligible facilities in DCS’ Building Portfolio has achieved a rating of 75 or greater, demonstrating a commitment to environmental protection through superior energy performance. 🌱

The EPA’s Energy Star program offers a proven energy management strategy to measure current energy performance, set goals, track savings, and reward improvements.

Energy Star also provides an innovative energy performance rating system which businesses have already used for more than 130,000 buildings across the country.

MISSED AN ISSUE?

[CLICK HERE](#) to see the
Sustainability E-Newsletter Archives

Shut-down & Stand-by



(Continued from page 1)

ting your computer & monitor to ‘Stand-by’ after 20 or 30 minutes of idle time you can help reduce unnecessary energy waste.

The Lawrence Berkeley National Laboratory states in a 2004 study that **60%** of office computers remain on overnight & during weekends, & **only 6%** use aggressive power-management settings. Contact your agency’s ISD division to request information about your computer’s power-save settings.

Please remember to *Re-Invent Your Print* by shutting down your computer when you leave at night & over weekends. 🌱



Mansion Brief:

The Governor’s Mansion is now home to the first Compressed-Natural Gas (CNG) Dixie Chopper riding lawn mower sold in Oklahoma. The mower was purchased in an effort to reduce greenhouse gas emissions caused by grounds care this summer. 🌱