



Smart Energy Design Assistance Center

Newsletter Vol. 5, No. 5, May 2009

www.sedac.org

SEDAC

The Smart Energy Design Assistance Center (SEDAC) provides advice and analyses enabling private and public facilities in the State of Illinois to increase their economic viability through the efficient use of energy resources. SEDAC is sponsored by the Illinois Department of Commerce and Economic Opportunity in partnership with ComEd and Ameren Illinois Utilities and provides valuable services at no cost to for-profit businesses and public facilities. SEDAC is managed by the University of Illinois at Urbana-Champaign and supported by the 360 Energy Group.

(Hyperlinks are shown in green)

EDUCATION

Missed a SEDAC presentation?

Look for it in the archives at sedac.org

BUILDING INDUSTRY TRAINING and EDUCATION (BITE)

Training Dates and Locations

http://www.illinoisbiz.biz/dceo/Bureaus/Energy_Recycling/BITE_training.htm

ENERGY CENTER OF WISCONSIN

Online course available anytime:

Beyond Code: Designing Energy Efficient Commercial Buildings by **Donald Fournier**

CHICAGO CENTER FOR GREEN TECHNOLOGY

USGBC CHICAGO CHAPTER

May 6, 2009: LEED for New Construction Workshop

May 20, 2009: **Greening Your Municipality**

WORKSHOPS for the PUBLIC SECTOR



SEDAC will host two Electric Efficiency Workshops in May for public sector officials in K-12 schools, community colleges, public universities and colleges, local, state, and federal government.

Presenters are Don Fournier, Ben Sliwinski, Andy Robinson, and Kristine Chalifoux from SEDAC; Andrea Reiff and Carol Kulek from the Department of Commerce and Economic Opportunity.

Wednesday, May 13th: Illinois BIS center in Naperville. [Directions.](#)

Friday, May 22nd: Richland Community College in Decatur. [Directions.](#)

Schedule:

8:30 am – 9:00 am

Registration

9:00 am – 10:00 am

General Session – Energy Efficiency, Green Building, and Renewable Energy for the Public Sector

10:15 am – 11:20 am

Breakout Sessions:

1. Educational Facilities

2. Municipal Buildings, Park Districts, Water Treatment and Waste Treatment Facilities

11:30 am - 12:15 pm

General Session – Grants and Incentives

Limit: 90 participants. Register online at illinois.edu/goto/sedacworkshops

Online Course Helps Build 30% Energy Savings into School Design

The U.S. Department of Energy, through its EnergySmart Schools Program, is offering a no-cost, 2-hour, **web-based training course** that helps building professionals implement the recommendations in the Advanced Energy Design Guide for K-12 School Buildings. Members of the American Institute of Architects (AIA) who complete the course and pass the quiz can earn 2.0 AIA/Continuing Education System learning units with credits for Health, Safety, and Welfare (HSW) as well as Sustainable Design (SD).

The course, which can be taken at the user's convenience, includes a recorded webinar that was presented to more than 1,100 attendees on April 16, 2009. Paul Torcellini and Shanti Pless, from the Department of Energy's National Renewable Energy Laboratory, provide an overview of the guide, including recommendations to achieve 30% energy savings over the baseline standard in building projects. The 90-minute presentation is followed by a 30-minute question and answer session. Directions on how to receive AIA/CES learning units are displayed at the end of the webinar.

EEPS LINKS

YEAR TWO Programs will roll out on June 1, 2009. Visit DCEO, ComEd, and Ameren Illinois for details.

DCEO Public Sector Electric Efficiency program

www.illinoisenergy.org

Standard Incentive Program contact:

Andrea Reiff, 217-785-0164

andrea.reiff@illinois.gov

Custom Incentive Program contact:

Tom Coe, 217-785-2433

tom.coe@illinois.gov

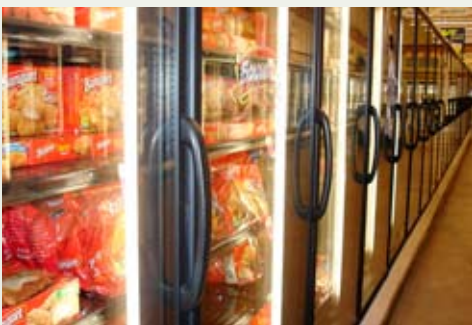
ComEd

www.comed.com/businesssavings/programs/incentives/

Ameren Illinois

www.actonenergy.com/business.asp

ENERGY SMART TIPS



SEDAC has prepared a new energy fact sheet for **SUPERMARKETS**. Other energy **Fact Sheets** by business type can be found at www.sedac.org

APPLY FOR SEDAC SERVICES ONLINE



Search for a **SEDAC pre-qualified Energy Service Provider**

Retrocommissioning - RCx

Commissioning is the process of ensuring that mechanical systems are designed, installed, functionally tested, and capable of being operated and maintained according to the owner's operational needs. Retrocommissioning is the same systematic process applied to existing buildings that have never been commissioned to restore optimal operating conditions and identify energy conservation opportunities. A team of engineers and tradesmen analyze a building's systems and maintenance programs.

Recommissioning is the term for applying the commissioning process to a building that has been commissioned previously (either during construction or as an existing building); it is normally done every three to five years to maintain top levels of building performance and/or after other stages of the upgrade process to identify new opportunities for improvement.

Researchers at three of the foremost building-commissioning think tanks in the U.S.—Lawrence Berkeley National Laboratory (LBNL), Portland Energy Conservation Inc., and the Energy Systems Laboratory at Texas A&M University—concluded in a study published in December 2004 that retrocommissioning is one of the most cost-effective means of improving energy efficiency in commercial buildings.

Over the last two years the University of Illinois has been undergoing retrocommissioning with very good results so far. The team has found that the process has resulted in energy cost savings for the five buildings shown below:

Building	Square Feet (SF)	RCx Cost	RCx \$/SF	Expected Saved/yr	Expected Saved/yr/SF	Simple Payback (years)
National Soybean Research Center	98,854	\$186,000	\$1.88	\$65,000	\$0.66	2.9
Krannert Center	298,320	\$188,000	\$0.63	\$376,000	\$1.26	0.5
Newmark Lab	184,395	\$241,000	\$1.31	\$150,000	\$0.81	1.6
Turner Hall	180,000	\$118,000	\$0.66	\$200,000	\$1.11	0.6
ACES Library	82,742	\$60,000	\$0.73	\$75,000	\$0.91	0.8
Total	844,311	\$793,000	\$0.94	\$866,000	\$1.03	0.9

Since reporting on these five buildings, the UI team has completed more buildings and identified average savings per building of 29%.

For more information go to

www.energymanagement.uiuc.edu/retro-commissioning.cfm

www.energystar.gov/index.cfm?c=business.EPA_BUM_CH5_RetroComm

DCEO will roll out a retrocommissioning pilot program in Year Two of the the Energy Efficiency Portfolio Standard (EEPS) that will be administered by SEDAC. Stay tuned for breaking news.

To participate in the *Smart Energy Design Assistance program*, contact us at: (800) 214-7954 or info@SEDAC.org
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www.sedac.org