Smart Energy Design Assistance Center

Newsletter Vol. 4, No. 7, July 2008 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 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 the 360 Energy Group.

(Hyperlinks are shown in green)

EDUCATION

August 1, 2008 9:30 am-12:30 pm:

Beyond Code: Energy Efficient Commercial Buildings

1010 Jorie Blvd, Oak Brook

3 HSW LUs in AIA/CES program, $40, Guidance and techniques for reducing energy usage in commercial buildings (both new designs and retrofits). Integrated design, modeling, and methods will be covered. Code implications will also be discussed.

August 1, 2008 1:30 pm-3:30pm:

Efficiency Benefits of the EPACT 2005

1010 Jorie Blvd, Oak Brook

2 HSW LUs in the AIA/CES program, $30, Guidance and methods on the tax benefits available for commercial buildings and the quantification and requirements for tax credits and deductions under the Energy Policy Act of 2005.

...over

NEWS - HOW TO APPLY FOR REBATES

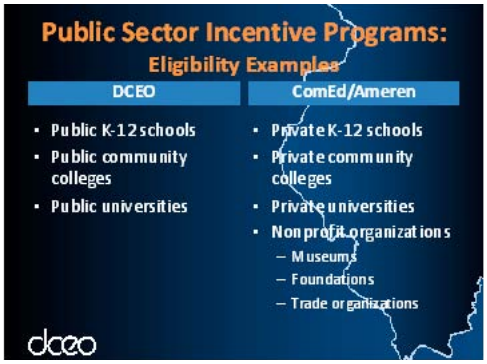
Incentives for measures to reduce electricity available now under the Energy Efficiency Portfolio Standard (EEPS)

Incentives are available to customers in Ameren Illinois and ComEd's electric service areas. DCEO will provide incentives for the **public sector** and ComEd and Ameren Illinois will provide incentives for **businesses (both profit and non-profit) and residential programs.** Detailed information about DCEO programs can be found in the **DCEO Energy Efficiency Portfolio Fact Sheet.**

HOW TO APPLY

DCEO Public Sector Energy Efficiency Programs

- **Standard Incentive Program and Custom Incentive Programs Guidelines, Application, and Standard Incentive Worksheets and Incentive. PDF**
- **Application and Standard Incentive Forms in Excel format.**
- **Custom Incentive Forms and Worksheets.**



Ameren Illinois Utilities
Act On Energy Business Program
www.ActOnEnergy.net

- **Standard Business Incentives**
- **Custom Business Incentive**

Check the **DCEO**, **ComEd,** and **Ameren Illinois Utilities** Web sites often as the programs develop.

ComEd
Smart Ideas Business Energy Solutions programs
www.comed.com

- **Prescriptive Incentives**
- **Custom Incentives**

Additional information on the Energy Efficiency Standard at **www.ileeps.org**

The following entities are now eligible for SEDAC Services!

- Local (county, township, municipal), State and Federal Government
- Public Schools
- Community Colleges
- Public Universities and Colleges
- Public Safety, Water and Park Districts
- For-Profit Businesses

...more education

Online Classes are available through SEDAC and the Office of Continuing Education at UIUC:

The Architecture of Sustainability: 10 modules - individual or packaged.
Module 1: 3 AIA LUs/CEUs, $75.
Modules 2-10: 1 AIA LU/CEU, $50.
Package of 10 modules: 12 AIA LUs/CEUs, $450.

Energy Basics for Small Business.
Module 1: The Language of Energy: 1 CEU, $25.

Online Registration is continuous at www.continuinged.uiuc.edu

OTHER EDUCATION

Energy Center of Wisconsin

LEED® for Schools Technical Review workshop
July 24, 2008
8:30 am - 5:00 pm
Heartland Community College

EVENTS

August 9 - 10, 2008: Illinois Renewable Energy Fair, Oregon, IL

Energy Solutions Workshops offered by Illinois Energy Education Council
September 9: Quincy
September 10: Springfield
September 11: Mt. Vernon
September 16: Morris
September 17: Moline

Topics : the energy supply and price picture, top recommended efficiency improvements for businesses, advances in renewable energy technologies, and new utility efficiency incentives and programs. Presenters include industry professionals, educators, and governmental agency leaders.
www.EnergyEdCouncil.org for details and registration.

October 18, 2008: Renewable Energy Fair, Waubonsee Community College.

NEWS *...contd.*

American Council for an Energy-Efficient Economy reports on the invisible U.S. energy boom

According to a May 15 news release by ACEEE, Energy Efficiency may be the farthest-reaching, least-polluting, and fastest-growing U.S. energy success story of the last 50 years. It is also the most invisible, the least understood, and in serious danger of missing out on needed future investments.

The ACEEE report *The Size of the U.S. Energy Efficiency Market: Generating a More Complete Picture* provides a unique assessment of the size and scale of current investments in the U.S. energy efficiency market and reveals the scope of potential benefits that future investments might yield. Ultimately their goal is threefold: (1) to increase the visibility of the contributions that efficiency currently makes to our economy; (2) to illustrate the potential contributions that efficiency can make in terms of energy security, economic productivity, and climate change mitigation; and (3) to recommend specific means of accelerating our transition to a more energy-productive, low-carbon economy.

In 2004, an estimated $300 billion was invested in energy efficiency technologies and infrastructure in the United States and those investments made us more productive, saved us money, and supported 1.6 million jobs. Notably, the estimated investments in efficiency are three times the size of investments made in the conventional energy supply infrastructure but represents less than a third of the nation's total annual energy expenditures.

Moreover, these investments in energy efficiency technologies are estimated to have generated approximately 1.7 quads of energy savings in 2004 alone. These savings are roughly the equivalent of the total energy required by the operation of 40 mid-sized coal-fired power plants. Interestingly, the size of efficiency investments varied considerably across energy end use sectors. Approximately $178 billion or nearly 60% of total energy efficiency investments were made in the buildings sector, while $75 billion worth of investments were made in the industrial sector. The transportation sector received approximately 11% of investments in efficiency or $33 billion.

While these figures indicate that, as a nation, we are clearly making positive strides toward increasing our energy productivity and reducing our carbon footprint, analysis performed for this report also suggests that we have only begun to scratch the surface of the potential savings that additional investments in energy efficiency technologies could provide. ACEEE's findings indicate that in an environment of accelerated market transformation and rapid growth in efficiency investments, total investments in more energy efficiency technologies could increase the annual energy efficiency market by nearly $400 billion by 2030, resulting in an annual efficiency market of more than $700 billion in 2030.

Given the right choices and investments in the many cost-effective but underutilized energy efficiency technologies, a variety of studies (by ACEEE and others) suggest that the United States can cost-effectively reduce energy consumption by 25-30% or more over the course of the next 20-25 years.