

Energy Efficiency News Alert

May 2011

“You can’t manage what you don’t measure” - U.S. government’s first-ever sustainability scorecards illustrate the benefits of energy benchmarking

Even though energy efficiency is one of the most obvious solutions to America’s energy problems, Congress has been unable to push through a national energy efficiency standard that would require utilities to produce energy savings for their customers rather than to simply build more power plants.

However, the federal government is providing leadership on at least one very important front - benchmarking energy usage in federal buildings. “You can’t manage what you don’t measure,” says U.S. Office of Management and Budget (OMB) Deputy Director for Management and Chief Performance Officer Jeff Zients.

Monitoring energy usage usually makes it obvious that simple retrofit measures can produce significant energy savings. A comprehensive 2009 study by the Lawrence Berkeley National Laboratory, for example, found that building energy retrofits produce median energy savings of 16% with a payback of 1.2 years and that a national retrofit program could produce energy savings of more than \$18 billion per year.

President Obama early in his term directed Federal agencies to lead by example in clean energy and to meet a range of energy, water, pollution, and waste reduction targets. The federal government expects these programs to save a cumulative \$8-11 billion by 2020. As part of this program, the OMB in mid-April released the first set of scorecards for each federal agency ([link](#)). The scorecard will help each agency update its Sustainability Plan and help keep the federal government on track toward meeting its overall goal.

Progress is also being made at the state level on benchmarking building energy efficiency. In New York, for example, the New York State Energy Research and Development Authority (NYSERDA) in February made \$7 million available for its “FlexTech Benchmarking Pilot.” Under this program, commercial and multifamily building owners can receive free energy benchmarking and onsite energy assessments that will provide recommendations on low-cost building system upgrades.

In California, the state government has passed the AB 1003 bill that requires commercial buildings, when they are sold or leased in whole or in part, to provide 12 months of energy-use information using the U.S. Environmental Protection Agency’s ENERGY STAR Portfolio Manager tool. This tool compares a building’s energy usage to that of its peers, making it obvious as to whether or not the building is efficient and highlighting energy saving opportunities.

In another program in California, the city of San Francisco in February approved the “Existing Commercial Building Energy Performance Ordinance.” This program requires commercial and industrial building owners to benchmark their buildings’ energy use using the EPA’s Energy Star Portfolio Manager and file this data annually with the city.

INDUSTRY FOCUS: HEALTH CARE

Health care industry leverages New Jersey’s “Pay for Performance” Clean Energy program to cut energy costs

Health care organizations spend nearly \$8.8 billion on energy each year, according to the U.S. Energy Information Agency. A 15% cut in energy costs could save the health care industry \$1.3 billion each year. A number of states have developed programs to encourage the health care in-

dustry and other industries to reduce their energy usage.

New Jersey’s Pay-for-Performance (P4P) program ([link](#)), for example, is a component of its overall Clean Energy program that has proven to be highly effective for making energy efficiency improvements and saving money for energy customers. The program is funded by an extra “societal benefits” charge on utility bills.

The program applies to all commercial, industrial and institutional buildings with a peak demand over 100 kilowatts for any of the preceding twelve months, although that threshold is waived for hospitals, public colleges and universities, non-profits, affordable multifamily housing, and local government entities.

The program pays for as much as 50% of the costs for energy efficiency projects that can produce energy savings of at least 15%. The state’s [incentives](#) reduce the capital costs for the projects and make the projects pay off much more quickly. The New Jersey program provides incentives not only for saving electricity, but also for saving natural gas, and for projects that involve combined heat and power (CHP). The New Jersey P4P program has been very popular and received a total of about 190 applications from its inception in March 2009 through the end of 2010.

The program is carried out by pre-approved P4P partners who work with health care organizations in a comprehensive way to reduce their energy costs. These independent energy company partners develop an Energy Reduction Plan for the building owner, interface with the P4P program to calculate program incentives, implement the plan, and then provide follow-up measurement and verification. The average energy-saving project under the P4P program produces 1.2 million kilowatt-hours of annual savings and qualifies for \$343,000 in incentives.

The New Jersey Board of Public Utilities, which is responsible for administering the Pay-for-Performance program, has joined the national pilot program called “Building Performance with ENERGY STAR®” to improve energy efficiency in commercial facilities. This has helped to combine the benefits of the EPA’s ENERGY STAR program with the benefits from the New Jersey Pay-for-Performance program.

A case study illustrates the highly attractive nature of the P4P program for building owners. Lime Energy, an approved New Jersey P4P partner, conducted a P4P energy efficiency program for AtlantiCare, a health care group with 5,170 employees and 600 physicians that service communities in more than 60 locations.

The total project cost of \$3.94 million was offset by \$1.25 million in annual energy savings for AtlantiCare and a \$2.4 million contribution from the New Jersey P4P program, resulting in a bottom line cost to AtlantiCare of only \$1.5 million and with payback of only 1.2 years. The program produced a permanent \$1.25 million savings in annual energy costs for AtlantiCare. The project involved a comprehensive list of improvements including a lighting upgrade, HVAC controls upgrade, chiller replacements, boiler replacements, weatherization, steam traps/piping, and window film installation.

For more information on the incentives available from New Jersey’s P4P program, please visit our web site at: [Lime Energy’s P4P Incentive Programs](#)



UPCOMING CONFERENCES

May		
5-6	Huntington Beach	Annual Convention of Bank Officers and Directors
5	MA	Association of Independent Colleges & Universities (AICUM)
16-19	Atlanta, GA	Association of Energy Services Professionals (AESP) Spring Conference & Expo
25-26	Chicago	Int’l Dairy Foods Association (DFA)
June		
7-8	Warwick, RI	2011 Northeast Energy Efficiency Summit
12-15	Colorado Springs	Edison Electric Institute (EEI) Annual Convention
15-17	Lake Geneva, WI	Illinois Banking Association convention
27-29	Charlotte	Bank Facilities Forum
26-28	Wash DC	Building Owners & Managers Association (BOMA) convention

SELECTED ENERGY EFFICIENCY NEWS CLIPS

(click on headline to view full online story)

Why Energy Reduction Goals Are Moving Up the Corporate Agenda

Mar 15 - Greenbiz.com - Increasingly companies are setting public energy reduction goals as senior management teams better recognize the link between reduced energy consumption, cost savings and an improved company carbon footprint....

Greening the Skyline: Small Fixes Save Big Money

May 1 - Time Magazine - One of the most ambitious efforts to transform city skylines around the globe is nearly invisible. That’s because the changes, aimed at drastically reducing energy consumption and carbon emissions in tall buildings, are happening in places most people never venture — in subterranean boiler rooms, behind radiators, under desks and inside the massive walls of office towers built decades ago....

KPMG Study Shows Corporate sustainability works

Apr 18 - BusinessGreen.com - Corporate sustainability strategies are delivering a wide range of commercial and operational benefits for many of the world’s leading companies, according to a major new survey of senior global executives released today....

Capgemini’s Top 5 Lessons for Implementing a Sustainability Program

Apr 14 - Greenbiz.com - Sustainability is no longer a fringe activity, according to Jon Hampson, environment director of Capgemini’s U.K. business unit. Instead, it has become a mainstream commercial reality. The global low carbon good and services sector employs millions of people and generates trillions of dollars in revenue....

Amazon’s Purchasing Data Finds U.S. Consumers Going Green

Apr 19 - Greenbiz.com - It can be difficult to wade through all the competing claims and find some hard data on the larger environmental movement in the United States. But if cross-category purchases of green products from the nation’s largest online retailer have anything to say about

it, then Amazon may be capable of providing that larger picture of how America is going green....

C-Level and Other Executives Suffer Energy Efficiency Perception Gap, Survey Says

Mar 16 - Environmental Leader - Top-level executives disagree with other senior executives on how much their companies are doing to address energy efficiency, according to a study by the Economist Intelligence Unit (EIU)....

Utilities Offer a Range of Incentives for Improving Energy Performance

April - Building Operating Management - Few businesses actually want their customers to purchase less — rather than more — of whatever it is they’re selling. Electric utilities, on the other hand, often do. Many have a range of programs that help their customers make more efficient use of the energy they buy....

EFFICIENT BUILDINGS

Federal Agencies Release Performance Benchmarks for Energy and Sustainability Goals

Apr 19 - Executive Office of the President Council on Environmental Quality - Today, Federal agencies released, for the first time, their scorecards on energy sustainability performance. These scorecards enable agencies to target and track the best opportunities to improve efficiency, reduce pollution, and eliminate waste....

USGBC Launches New LEED Standard for Healthcare

Apr 12 - Greenbiz.com - The movement to make medical centers, hospitals and other healthcare facilities greener has taken a step forward with the U.S. Green Building Council formally launching its LEED standard for healthcare....

First Senior Care Communities Earn EPA’s Energy Star

Apr 7 - EPA - The U.S. Environmental Protection Agency (EPA) is recognizing 30 Sunrise Senior Living communities as the first senior care facilities to earn EPA’s Energy Star for superior energy performance....

The Difference Between Leadership and Improvement in LEED Requirements

Apr 14 - Greebiz.com - A loyal reader asked me what I thought about the proposal currently floating around to allow fulfillment of the energy prerequisite in LEED-EBOM by simply showing a 20 percent improvement in the Energy Star score, rather than achieving the current minimum score of 69. Not to put too fine a point on it, I think this is a really, really, really bad idea....

EPA Recognizes Leaders in Energy Efficiency / 2011 Energy Star Award winners announced

Apr 12 - EPA - The U.S. Environmental Protection Agency (EPA) is honoring 111 Energy Star partners who have demonstrated leadership and commitment in protecting American’s health and the environment through energy efficiency achievements. 2011 Energy Star award winners include manufacturers, retailers, public schools, hospitals, real estate companies and home builders....

The smart grid’s killer app? Smart buildings, says new study

Apr 26 - Smart Grid Markets - Two new reports from IDC Energy Insights highlight the smart grid’s latest flavor of the month – namely, the intersection of smart grids and smart buildings. Until now, building owners have installed building automation to reduce energy bills, thereby making their buildings more appealing to tenants. With the onset of the smart grid, they can now tap into an additional payback – utility programs such as demand response and energy efficiency....

Building Energy Management Systems Investment to Top \$10 Billion in the United States by 2016, Forecasts Pike Research

Apr 8 - Businesswire - ...According to a recent report from Pike Research, the BEMS market holds significant opportunity for growth in the next few years, and the firm forecasts that investment in the sector will total \$10.1 billion in the U.S. during the period between 2010 and 2016, with a compound annual growth rate (CAGR) of 17.4%....

Widespread deployment of smart grids is critical for a secure, cost-effective and clean energy future, IEA report says

Apr 4 - IEA - Widespread deployment of smart grids is critical for a secure, cost-effective and clean energy future, IEA report says. “Smart Grids Technology Roadmap” shows how use of smart grid technologies can be expanded, identifies goals that must be met...

Energy Modeling Makes Its Move Into the Mainstream

Apr 5 - The black box “voodoo” that many consider building energy modeling to be today is being dragged into the spotlight....

Commercial Building Retro-Commissioning Revenue Could Surpass \$1.8 Billion in the United States by 2014

Mar 24 - Pike Research - Several substantial, durable drivers are expanding the potential market for energy efficiency retrofits in commercial buildings, which can provide energy savings ranging from 10% to more than 50%....

EFFICIENT LIGHTING

EPA Announces Updated Energy Star Standards for Lighting

Apr 5 - EPA - The U.S. Environmental Protection Agency (EPA) is announcing updated standards for light fixtures to qualify for the Energy Star label – an efficiency program that has saved consumers money on their energy bills while contributing to cleaner air and protecting people’s health since 1992....

New Survey Points to Broad Consumer Support for Energy Efficient Lighting

Apr 6 - Alliance to Save Energy - ...While 60 percent of those surveyed were unaware of upcoming changes to federal energy standards that will effectively phase-out incandescent bulbs by 2014, two-thirds of respondents believe that a phase-out of traditional incandescent bulbs in favor of more efficient technologies is a good idea....

Shedding light on the future, not the past

Apr 4 - TheHill.com - by Ed Crawford, CEO of Philips, and Kateri Callahan, President of the Alliance to Save Energy - Reports of the death of the incandescent light bulb in 2012 are greatly exaggerated, to paraphrase Mark Twain. In fact, the reports just aren't true....

COMPANIES & EFFICIENCY

Walmart Scores First Absolute Emission Reduction, but Lags on Goal

Apr 19 - Greenbiz.com - Walmart is lagging on it plans to cut emissions at stores that existed in 2005 by 20 percent, but for the first time emissions at all stores, including ones built since then, have dipped....

Global Banking Industry Stands to Benefit from Green IT Practices

Apr 7 - Greenbiz.com - Although banking is far from top-of-mind when the topic of green IT arises, the financial services sector is the industry with the largest IT footprint, rather than the Googles, Amazons and Microsofts of the world....

Banco Santander Tops Bloomberg Markets Magazine's Greenest Banks

Apr 5 - Bloomberg Markets - Spain's Banco Santander prevails as No. 1 in Bloomberg Markets magazine's inaugural ranking of the world's greenest banks in its May 2011 issue....

Citi Cuts Carbon Relative to 2005 Levels for First Time

Apr 21 - Environmental Leader - Citi reduced its greenhouse gas (GHG) emissions relative to 2005 levels for the first time in 2010, and the company says it is on track to meet its 2011 carbon reduction target, according to Citi's 2010 corporate citizenship report....

NATIONAL ENERGY EFFICIENCY POLICY DEVELOPMENTS

US Education Department Launches Landmark Green Schools Program

On Tuesday, the federal government launched an initiative that may be the biggest thing to ever happen to the green schools movement....

Alliance Calls for Efficiency as a Key Component of Clean Energy Standard

Apr 29 - ASE - ...In comments submitted to the Senate ENR Committee, the Alliance calls for energy efficiency to be considered a fully eligible resource for meeting any CES without limitation. In support of this proposal, the Alliance points to the 93 GWh of electricity and 53 trillion Btu of gas that utilities saved through ratepayer energy efficiency programs in 2009....

Alliance to Save Energy Praises Senate Committee's Approval of Bill Strengthening Appliance Energy Efficiency Standards

Apr 12- Alliance to Save Energy - The Alliance to Save Energy today commended the U.S. Senate Committee on Energy and Natural Resources for approving a bill codifying energy efficiency standards for appliances and other products as negotiated by manufacturers and efficiency advocates....

Regional Energy Efficiency Organizations Offer Tailored Strategies for Promoting Energy Efficiency

Apr 1 - Alliance to Save Energy - Due in part to history and geography, different regions of the United States have developed different industrial bases. Close to many iron ore deposits, the Midwest developed a robust iron and steel sector and concomitant sectors such as automobiles and fabricated metal parts....

REGIONAL ENERGY EFFICIENCY DEVELOPMENTS

NYSERDA Announces Benchmarking Initiative to Help Commercial and Multifamily Building Owners Reduce Energy Use, Control Costs

Apr 20 - New York State Energy Research and Development Authority - More Than \$7 Million Available to Support Energy Benchmarking Services That Will Help Building Owners Reduce Energy Costs...

NYSERDA Invests \$20 million in Combined Heat and Power Projects

Apr 21 - NYSERDA - The New York State Energy Research and Development Authority (NYSERDA) will invest \$20 million in combined heat and power generation projects to improve energy efficiency at 19 hospitals, paper mills, supermarkets, apartment complexes and other facilities in New York City and upstate....

New York City Pushes Ahead Toward Sustainability with PlaNYC

The update to PlaNYC -- New York City's long-term plan for a sustainable future -- which was released last week, continues to demonstrate Mayor Michael Bloomberg's leadership on clean energy and climate change....

With PlaNYC Update, New York City Continues to Lead on Energy and Climate

Apr 22 - NRDC - New York City's long-term plan for a sustainable future -- which was released yesterday, continues to demonstrate Mayor Bloomberg's leadership on clean energy and climate change....

Western Governors Identify Industrial Energy Efficiency as Policy Priority

Apr 5 - ACEEE - The industrial sectors of the western U.S. states are responsible for, on average, 28% of their state's energy use. Though considerable efficiency gains have been made in the nation's industrial sector, evidence suggests that industrial companies can continue to reduce their energy intensity by 2-3% per year....

California Boosts RPS to One-Third Renewables by 2020

Apr 13 - EERE News - A new California law requiring public utilities to get one-third of their electricity from renewable energy in less than a decade took effect on April 13. Governor Edmund G. Brown, Jr. signed the legislation, which increases California's current 20% renewables portfolio standard (RPS) target in 2010 to a 33% RPS by December 31, 2020....

Kentucky Utilities asks to expand energy efficiency programs

Apr 25 - Kentucky.com - Kentucky Utilities has asked the state Public Service Commission for permission to expand its energy efficiency programs. If approved, the request would create three new offerings and tweak five existing ones....

Appalachian Power Launches Energy Efficiency Programs in West Virginia

Apr 20 - Appalachian Power - Appalachian Power is launching a series of energy efficiency incentive and rebate programs to help West Virginia residential and business customers offset rising electricity costs and become better consumers of energy....

Texas Energy Efficiency Investments Would Save Money for Consumers and Businesses While Creating Thousands of Jobs

Mar 22 - ACEEE - Investments in energy efficiency in Texas can meet the state's growing electricity needs while saving businesses and households \$14 billion on utility bills and creating 47,000 local jobs per year by 2030....

GLOBAL ENERGY EFFICIENCY

UN Is Looking to Encourage Energy-Efficiency Projects in the Carbon Market

Apr 14 - Bloomberg - The regulators of the United Nations' Clean Development Mechanism are seeking to increase the number of projects to boost energy efficiency in the carbon-reduction program....

About Lime Energy

The Total Package

Lime Energy is a leading provider of energy efficiency and renewable services. Our integrated energy engineering, consulting and implementation solutions dramatically save energy at client facilities, reduce operations and maintenance costs and improve building infrastructure and value. We actively assist clients in managing their carbon footprint to limit the environmental impact of operations. Our projects include lighting upgrades, better controls, building envelope, water efficiency, on-site generation and renewable energy. We perform for the largest corporations, utilities, and government facilities; and also for small businesses from coast to coast. Our clients enjoy maximum benefit from the best combination of efficiency measures that meet their needs and energy goals.



Lime Energy Locations Nationwide

