

**NATIONAL ENERGY ISSUES TO WATCH:**

- Companies Defer on Energy Saving: Other Goals Take Priority, Poll Finds** - Concerns about energy security, rising energy costs and climate change are mounting, generating more buzz about energy efficiency. But that buzz isn't yet translating into increased investment in energy efficiency, says the survey released by Johnson Controls Inc., the state's largest company and a key player in energy efficiency technology. Four out of five executives and facility managers responsible for energy decisions forecast energy prices to rise in the coming year, with a consensus that prices will escalate by nearly 14%, the survey found. The second annual Energy Efficiency Indicator survey polled 1,150 energy decision-makers online with the help of the International Facility Management Association. The survey found 72% of organizations are paying more attention to energy efficiency than they were just a year ago. But the survey found 56% of companies expect to make energy-efficiency improvements to their buildings, little changed from last year's 57%. Hurdles include cost pressures from other areas within a company; the payback period for savings on energy costs; and the disconnect between that payback and the desire for commercial real estate landlords to sell their buildings within a few years. 04/15 Milwaukee Journal Sentinel
- FEMP's Energy Efficiency Requirements** - Below are links to FEMP's Purchasing Specifications for Energy-Efficient Products for lighting products commonly purchased by federal agencies. Each PEER provides a 1-2 page summary with buyer tips, cost-effectiveness examples, and additional product resources. [http://www1.eere.energy.gov/femp/procurement/eep\\_requirements.html](http://www1.eere.energy.gov/femp/procurement/eep_requirements.html)

  - Compact Fluorescent Lamps
  - Fluorescent Tube Lamps
  - Fluorescent Ballasts
  - Fluorescent Luminaires
  - Downlight Luminaires
  - Industrial HID Luminaires
  - Exit Signs
  - Lighting Controls
  - More Lighting Guidance
- Consumers Warming to LEDs as an Energy-Efficient Solution for Lighting, Finds Arrow Electronics Study** - With consumer interest in energy-efficient lighting growing rapidly, the next wave of mass-market residential and business lighting could be coming from LEDs. That's the key finding of a new consumer survey commissioned by Arrow Electronics, Inc., a leading global provider of products, services and solutions to users of electronic components and enterprise computing solutions. <http://www.ledjournal.com>
- Building Opportunities in the Commercial Lighting Arena** – by Marc Hoffman and Ed Winsniewski of CEE. See the complete article in EC&M April 2008:

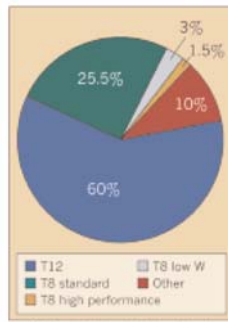


Fig. 1. Current lighting technology breakdown for commercial buildings

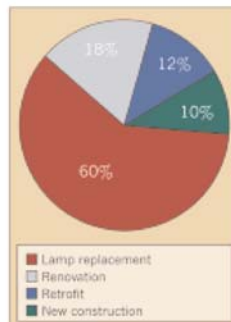


Fig. 3. Approximate breakdown of lighting assets in commercial facilities

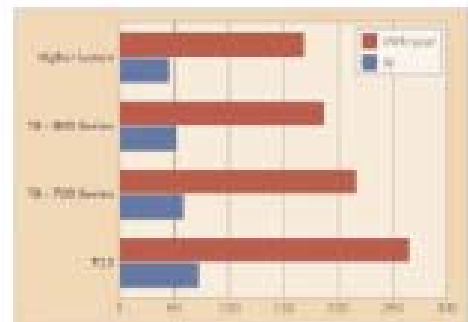



Fig. 4. Comparison of total energy consumed by lighting in T12 and T8 facilities (based on lighting density, depending on CDM hours per year)

- DOE Releases Report from Lighting Designer Roundtable** - The U.S. Department of Energy (DOE) has issued the report from the Lighting Designer Roundtable on Solid-State Lighting (SSL), held in Chicago on March 19, 2008. The Roundtable was hosted by DOE, the International Association of Lighting Designers, and the Illuminating Engineering Society of North America. Sixteen lighting designers, along with DOE representatives, attended the one-day meeting to examine SSL market and technology issues and to encourage an exchange of the designers' experiences, ideas, and recommendations regarding SSL and the SSL industry. [http://www.neel.doe.gov/ssl/PDFs/Designer%20Roundtable%20Report\\_final\\_Apr08.pdf](http://www.neel.doe.gov/ssl/PDFs/Designer%20Roundtable%20Report_final_Apr08.pdf)

**NATIONAL ENERGY ISSUES TO WATCH (continued):**

6. **Advance Products Join New NEMA Premium® Ballast Program** - Consistent with Consortium for Energy Efficiency (CEE) specifications and tested in accordance with ANSI standards, products eligible to participate in the new NEMA Premium® Ballast Program include either instant-start or programmed start fixed output, electronic ballasts designed for use with four-foot 32-watt T8 fluorescent lamps. Qualifying products will bear a special designation which will help lighting professionals and OEMs recognize the industry's highest-performing ballast products available and optimally support the market's green, energy-efficient, or sustainable lighting objectives. Advance's Optanium® high-efficiency T8 ballasts are currently participating in the NEMA Premium® Ballast Program.  
[www.advancetransformer.com/nemapremium](http://www.advancetransformer.com/nemapremium)
  7. **U.S. Department of Energy Launches Website with Energy Saving Tips for Consumers** - The DOE today launched a new internet feature which provides tips to consumers on how to make everyday Earth Day by making smart energy choices to save money while protecting the environment. The interactive web page, [www.energy.gov](http://www.energy.gov) shows consumers steps to use less energy with household electronics, lighting, and appliances to save on monthly bills and how to avoid wasting energy by improving the energy efficiency of their homes and cars.
  8. **Solid-State Lighting Top of List for DOE** - The U.S. Department of Energy (DOE) is focusing most of its research and development budget on emerging technologies in solid-state lighting (SSL). The SSL research activities represent an essential component of the DOE's strategy for achieving zero-energy buildings - buildings that produce as much energy as they use. The development of highly efficient, cost-effective SSL technologies, along with advanced windows and space heating and cooling technologies, can help reduce total building energy use by 60 to 70 percent. 05/'08 Buildings
  9. **Wal-Mart Selects 20 Capitols for Energy Audits** - Wal-Mart Stores Inc. has announced partnerships with Missouri, 18 other states (Arkansas, Connecticut, Florida, Iowa, Kentucky, Minnesota, Montana, Nebraska, Nevada, New Hampshire, New Jersey, Ohio, Pennsylvania, South Carolina, South Dakota, Tennessee, Virginia and West Virginia) and Puerto Rico to help them save on energy and electricity costs at their capitols. Wal-Mart will pay engineering experts to perform energy audits at the capitols and recommend ways to save energy, lower electricity costs and reduce greenhouse emissions, company officials told state leaders Tuesday at the National Governors Association's State Summit on Clean Power and Efficiency. Engineers will visit the capitols in 2008 and 2009 to examine lighting, heating, ventilation, air-conditioning systems, refrigeration equipment and building structures. Over the past three years, Wal-Mart has worked to cut energy usage at its stores and suppliers. Through its Greening State Capitols partnership with the National Governors Association, Wal-Mart now will start working with the states. 05/06 AP
  10. **illumiNation Event Dispels Myths About CFLs** - On Earth Day, April 22, an interactive online education event called illumiNation was hosted by Aurora, OH-based TCP Inc. The event dispelled misconceptions and set the record straight on the new light bulb that's reshaping lighting for the new century. The event began at 9:00 a.m. EDT and is streamed lived on <http://www.tcpi.com/earthday/>
  11. **Fluorescent Lamps 101 by Jana J. Madsen** - Understanding the basics of fluorescent lamps guarantees that you'll select the most appropriate fluorescent lighting, maximize lamp life, and dispose of spent lamps properly.  
<http://www.buildings.com/articles/detail.aspx?contentID=6002>
  12. **Green: The Latest Fashion in Building for 2008** - An investment in green practices is returned via the continued health of occupants and the improved productivity of workers. In the building sector, the hot color this year is green. But, green's popularity isn't coming from flashy interior designers or brazen Paris decorators. Green technology, green buildings, and green products have entered the thoughts, lexicons, and practices of business professionals worldwide. Industry leaders in construction, manufacturing, design, etc. are turning to green practices because they're good for business. 05/'08 Buildings
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13. **Green Lighting** - It wasn't too long ago that being green in sports was synonymous with being a rookie. Recently, "green" has taken a 180-degree turn toward visionary. Today, it is the universal definition of sustainable high-performance products that use energy-efficient materials to support measurable results. Organizations—from Little League to the National League of Cities and NASCAR to the NFL—are identifying sports lighting as a key part of their budgets with a significant impact on sustainable operations. The Detroit Lions headquarters and training facility was one of the first three sports facilities to earn LEED Certification from the U.S. Green Building Council. Sustainable lighting played a key role. 04/'08 Electrical Contractor

**NATIONAL ENERGY ISSUES TO WATCH (continued):**

14. **CFLs and Swordfish?** The National Lighting Bureau (NLB), Silver Spring, Md., isn't happy about what it calls "misinformation" regarding mercury in compact fluorescent lamps (CFLs) and wants consumers to hear both sides of the story. In a recently released NLB P.R. statement, John Bachner said the amount of mercury in the typical CFL is not enough to coat the head of a pin and that, "The average swordfish contains 20 times as much mercury." "When a CFL is broken, most of the mercury adheres to the glass and does not disperse into the air," he said. "Reasonable caution is all that's needed to deal with the situation." Good resources on the topic are:
- EPA's: [http://www.nlb.org/nlb/File/EPA\\_clean-up\\_guidance.doc](http://www.nlb.org/nlb/File/EPA_clean-up_guidance.doc)
  - NEMA's: [http://www.nlb.org/nlb/File/NEMA\\_WP\\_Recycling\\_Household\\_CFLs\\_09\\_07.doc](http://www.nlb.org/nlb/File/NEMA_WP_Recycling_Household_CFLs_09_07.doc)
  - NLB's: [www.nlb.org](http://www.nlb.org)



15. **Green Power** - While many distributors, reps and manufacturers are still getting their arms around the new sales opportunities now available with energy-efficient electrical products, just over the next hill is a world of alternative energy sources that will change how we power the world. Part 1 of a multi-part series by Jim Lucy, Chief Editor of Electrical Wholesaling, April 2008 issue. Even if you aren't all that interested in the green scene, you can't escape it anymore. When you shell out \$60 to fill up your SUV, you start wondering if you should buy a hybrid. When you go to your office, you can't escape it, either. Turn the pages of any electrical magazine these days and you see articles about LEED building standards, bans on incandescent bulbs, utility rebates and LED lighting systems.



16. **Gas Engines: Here to Stay** - Despite its limitations and all the hype for electric cars and hydrogen fuel cells, experts say we'd better get used to pumping gas, but we can look forward to much better fuel economy down the road. That's because, despite its imperfections, the internal combustion engine has a lot of inherent advantages but plenty of room for improvement. As those improvements are made, future gasoline engines will be more and more fuel efficient, making it tougher for competing technologies to show a big benefit. (...sounds a lot like the incandescent light bulb). 05/02 [CNNMoney.com](http://www.CNNMoney.com)

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**STATE ENERGY ISSUES TO WATCH:**

17. **National Grid Launches New Brand Campaign** - 'The Power of Action' - It's the beginning of a new era, as National Grid launches a new brand campaign featuring the tagline, 'The power of action.' The campaign is designed to encourage customers to partner with National Grid and take action in making a difference by saving energy, managing their energy costs and protecting the environment. The brand strategy includes an advertising campaign beginning today in all major markets in which the company does business. The advertisements focus on smart energy choices that we all can make from conserving power to converting to natural gas to weather-proofing our homes - taking action. National Grid delivers electricity to approximately 3.3 million customers in Massachusetts, New Hampshire, New York and Rhode Island, and manages the electricity network on Long Island. <http://www.nationalgridus.com/> 05/05 BUSINESS WIRE
18. **Con Edison Proposes New Energy Efficiency Programs for a Cleaner, Greener New York** - Consolidated Edison Company of New York, Inc. (Con Edison) has filed a plan with the New York State Public Service Commission (NYSPSC) asking that a package of new energy efficiency programs be approved for implementation this summer. The 11 residential and commercial programs proposed in the filing are designed to achieve 378 MW of demand reduction and reduce energy use overall by 4.4 billion kilowatt hours (KWh). Total estimated cost of the programs is \$306 million through 2015, varying from approximately \$10 million this year to \$75 million in 2015. [www.coned.com](http://www.coned.com)
19. **New LIPA Energy Conservation Program Unveiled** - The Long Island Power Authority plans to unveil today its most ambitious energy conservation program to date, levying a new \$3 monthly "assessment" on the average homeowner's bill in an effort to cut demand enough to eliminate the need for another power plant. Under the program starting in January, LIPA will spend nearly \$1 billion over 10 years to encourage homeowners and businesses to adopt energy-efficient measures and buy greener appliances. Two-thirds of the program, which has a total budget of \$924 million over 10 years, will go to achieving energy savings at businesses, where greater reductions are possible. Average businesses will pay bend \$25 a month, LIPA said, depending on usage. 04/30 McClatchy-Tribune Regional News

**STATE ENERGY ISSUES TO WATCH (continued):**

20. **Progress Energy Carolinas Adds to Proposed Energy-Efficiency and DSM Portfolio** - Progress Energy Carolinas today proposed to the N.C. Utilities Commission three additional programs to promote energy efficiency and demand-side management. The filings are part of the utility's commitment to creating a comprehensive portfolio of programs to appeal to customers of all sizes, budgets and needs. Today's filings include programs that aim to increase the level of energy efficiency built into new homes, and commercial, industrial and government buildings, as well as a program to supplement energy-efficiency retrofits for existing commercial, industrial and government facilities. <http://www.progress-energy.com/> <http://www.savethewatts.com/>
21. **Bredesen Sets Goals for Energy Task Force** - With Tennesseans using more electricity per capita than in any other state, Gov. Phil Bredesen hopes an advisory panel can find solutions to curbing the state's energy appetite. Tennessee's per capita electric use is about 7,000 kilowatt hours per household annually, compared with a national average of less than 4,750 kilowatt hours. Energy Task Force: <http://www.tn.gov/energy> 05/06 AP
22. **Austin Energy Maintains U.S. Lead in Green Power Sales** - The municipal utility for Austin, Texas, sold more than 577 million kilowatt-hours of electricity from renewable sources in 2007, holding onto its top spot in the United States for utility sales of green power, according to DOE's National Renewable Energy Laboratory (NREL). More than 800 utilities across the United States offer voluntary green programs to their customers, according to NREL, which released its annual ranking of the leading utility green power programs on April 22. Total utility green power sales exceeded 4.5 billion kilowatt-hours in 2007, about a 20% increase over 2006. For the sixth time in a row, Austin Energy leads the pack for total sales. Austin Energy also comes in second for its percentage of total electricity sales that are green power sales, at 5%, beat out only by the Edmond Electric, the municipal utility for Edmond, Oklahoma, which is at 5.7% of total sales. 4/30 EERE
23. **The Alamo Captivates Audience with Philips LED Lighting Technology** - Philips Solid-State Lighting Solutions, the new entity formed by Philips' acquisition of Color Kinetics, recently added the Alamo to a growing number of landmarks to be transformed by its intelligent LED lighting systems. Located in San Antonio, Texas, the Alamo is an important symbol of Texas liberty and American history. Photo by Bill FitzGibbons, Blue Star Contemporary Art Center <http://www.ledjournal.com/>
24. **Los Angeles Approves an Aggressive Green Building Ordinance** - Los Angeles Mayor Antonio Villaraigosa signed a law on Earth Day that requires all new large building projects in the city to meet green building standards. Touted as the most aggressive green building plan of any big city in the United States, the new law requires any new building with more than 50,000 square feet of floor space or consisting of more than 50 units to meet the LEED green building standard of the U.S. Green Building Council. Builders who go the extra step to pursue LEED Silver certification will benefit from expedited processing of their building applications. 04/30 EERE



## MONTHLY FEATURE:

### Sustainable Design & Operations

[http://www1.eere.energy.gov/femp/sustainable/sustainable\\_basics.html](http://www1.eere.energy.gov/femp/sustainable/sustainable_basics.html)

A sustainable approach "meets the needs of the present without compromising the ability of future generations to meet their own needs". Sustainable building design and operation strategies demonstrate commitment to energy efficiency, environmental stewardship, and conservation. These approaches result in an optimal balance of energy, cost, environmental, and societal benefits, while still meeting the mission of the agency and the function of the facility or infrastructure. Two common synonyms for sustainable buildings include "green buildings" and "high-performance buildings."

### Benefits

Benefits of sustainable design include the following:

(Links are provided to additional reference information in the Business Case for Sustainable Design in Federal Facilities. The following documents are available as Adobe Acrobat PDFs.)

- **Lower energy costs.** Sustainable design can reduce annual energy costs by 30-50%, with paybacks of 5-10 years. (PDF 865 KB, 34pp)
- **Reduced operating and maintenance costs.** Water savings and sustainable landscaping measures, as well as building commissioning and use of longer-lasting materials, save much more over their lifetimes than their incremental first costs. (PDF 865 KB, 34 pp)
- **Lower 'churn' costs.** Some features, such as raised flooring, result in a more flexible space that can be easily reconfigured, thus reducing the cost of modifying space over the life of the building. (PDF 865 KB, 34 pp)
- **Same or reduced first costs.** When sustainable design integrates natural heating, cooling, lighting, recycled materials, efficient space planning, elimination of non-critical finishes and fixtures, and new technologies, it can in some cases reduce both environmental impacts and construction costs. (PDF 865 KB, 34 pp)
- **Productivity.** Studies show that organizations may lower absenteeism and increase productivity when buildings are healthier, more pleasant places to work. (PDF 865 KB, 34 pp)
- **Better health and well-being.** Scientific studies link health, psychological well-being, and task performance to sustainable features including good ventilation, personal controls, daylighting, low-emitting interior materials, etc. Liability associated with sick building syndrome may be reduced. (PDF 354 KB, 13 pp)
- **Less Pollution.** Lowering energy use will result in decreases in sulfur dioxide, nitrogen oxide, and carbon dioxide emissions, making our cities cleaner, reducing the threat of climate change, and reducing costs to society. (PDF 507 KB, 11 pp)
- **Reduced impacts on natural ecosystems.** Sustainable design decreases the impact on wildlife, ecosystems, and other natural resources. (PDF 507 KB, 11 pp)
- **Better image.** Environmental stewardship in facilities fosters community acceptance, political support, better ability to attract and retain desirable employees, fewer complaints from surrounding communities, less time and cost to deal with negative issues, and easier siting of future facilities.