

# Energy Watch

May 2010

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*The whole problem with the world is that fools and fanatics are always so certain of themselves, and wiser people so full of doubts. Bertrand Russell*

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## *Something to Think About...*

*Man in the Arena by Theodore Roosevelt, Our 26<sup>th</sup> President -*

One of my all-time favorite quotes... I love it every time I read it and I read it often as it's hanging on my wall in my office. He frames his argument towards action perfectly by not only honoring "the triumph of high achievement" but bestowing nobility on failure, leaving the option of doing nothing to the weak and inept.



**"It is not the critic who counts; not the man who points out how the strong man stumbles or where the doer of deeds could have done better. The credit belongs to the man who is actually in the arena, whose face is marred by dust and sweat and blood, who strives valiantly, who errs and comes up short again and again, because there is no effort without error or shortcoming, but who knows the great enthusiasms, the great devotions, who spends himself for a worthy cause; who, at the best, knows, in the end, the triumph of high achievement, and who, at the worst, if he fails, at least he fails while daring greatly, so that his place shall never be with those cold and timid souls who knew neither victory nor defeat."** "Citizenship in a Republic," Speech at the Sorbonne, Paris, April 23, 1910

Below are additional quotations related to the more famous and later quote:

**"...the man who really counts in the world is the doer, not the mere critic - the man who actually does the work, even if roughly and imperfectly, not the man who only talks or writes about how it ought to be done."** (1891)

**"Criticism is necessary and useful; it is often indispensable; but it can never take the place of action, or be even a poor substitute for it. The function of the mere critic is of very subordinate usefulness. It is the doer of deeds who actually counts in the battle for life, and not the man who looks on and says how the fight ought to be fought, without himself sharing the stress and the danger."** (1894)

**"Far better it is to dare mighty things, to win glorious triumphs even though checkered by failure, than to rank with those poor spirits who neither enjoy nor suffer much because they live in the gray twilight that knows neither victory nor defeat."** (1912)



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## NATIONAL ENERGY ISSUES TO WATCH.....

1. ***New Study Ranks Top 25 U.S. Markets in Opportunity for Green Building*** - San Francisco leads the 25 largest office markets for green opportunities, according to a study just released by global real estate company Cushman & Wakefield, in collaboration with the Northwest Energy Efficiency Alliance's (NEEA) BetterBricks initiative. The Green Building Opportunity Index is the first office market assessment tool to provide weighted comparisons of top U.S. office markets on the basis of both real estate fundamentals and green development considerations. The Index focuses on the primary factors that influence successful development, retro-fitting, leasing and sales of investment grade "green" office buildings in the 25 largest U.S. Central Business Districts (CBDs). It compares a market's relative position to its peers in six categories: Office Market Conditions, Investment Outlook, Green Adoption & Implementation, Local Mandates & Incentives, State Energy Initiatives and Green Culture. The Green Building Opportunity Index's top 12 markets overall:

- |                     |                      |                    |
|---------------------|----------------------|--------------------|
| 1) San Francisco    | 5) Chicago           | 9) San Diego       |
| 2) Oakland          | 6) Orange County     | 10) Boston         |
| 3) Midtown New York | 7) Downtown New York | 11) Seattle        |
| 4) Los Angeles      | 8) Washington, D.C.  | 12) Portland, Ore. |

<http://www.energyvortex.com/pages/headlinedetails.cfm?id=4400> Download the Green Building Opportunity Index: [http://betterbricks.com/images/gbi\\_pdf/GreenBuildingIndex-NationalOverview.pdf](http://betterbricks.com/images/gbi_pdf/GreenBuildingIndex-NationalOverview.pdf)

2. ***A BILL S. 3059: To Improve the Energy Efficiency of Appliances, Lighting, and Buildings, and for Other Purposes*** - Proposed in the Senate 3/2, this Act may be cited as the "National Energy Efficiency Enhancement Act of 2010". SEC. 6. OUTDOOR LIGHTING pages 28 to 59. IES believes that this is an appropriate time to publicly declare its support for the bill, and specifically Section 6 which represents a consensus provision that would set, for the first time, federal efficiency requirements on certain outdoor pole-mounted luminaires.



S 3059.pdf

3. ***A BILL S. 3079: Building Star Energy Efficiency Act of 2010*** - Proposed in the Senate to assist in the creation of new jobs by providing financial incentives for owners of commercial buildings and multifamily residential buildings to retrofit their buildings with energy efficient building equipment and materials and for other purposes. This Act appropriates \$6 billion for the period of fiscal years 2010 and 2011, to remain available until expended. Lighting is addressed on pages 7, 9, 21, 23 and 24.



S 3079.pdf

4. ***A BILL S. 3177: To Provide for the Establishment of a Home Star Retrofit Rebate Act of 2010*** The legislation is intended to create demand for energy saving products and new work for contractors performing home retrofits. The House program would offer rebates up to \$3,000 for investments in building improvements such as insulation, window sealing and more efficient water heaters, and additional rebates for higher energy savings. The U.S. Senate is also considering a version of this bill.



S 3177.pdf


5. ***A BILL S. 3212: Qualified Energy Efficiency Property Eligible for Energy Credit and Grants*** - To amend the Internal Revenue Code of 1986 and section 1603 of the American Recovery and Reinvestment Tax Act of 2009 to provide that qualified energy efficiency property is eligible for the energy credit and the Department of Treasury grant.



S 3212.pdf

6. ***Proposed Addendum to Standard 90.1-2007, Energy Standard for Buildings Except Low-Rise Residential Buildings*** - 10.4.3.1 Lighting: All elevator cab lighting systems shall have efficacy of not less than 35 lumens per Watt.



7. **Dear Member of Congress** - As a broad-based coalition of business, trade, design, construction, environmental, and energy efficiency groups and organizations, the IES writes to you in support of enlarging the Energy Efficient Commercial Building Tax Deduction from \$1.80 per square foot to \$3.00 per square foot in order to help stimulate immediate job creation.  CBTD\_MoC\_Letter.pdf
8. **Home Star Bill Introduced in House** - The proposed Home Star Energy Retrofit Act of 2010 moved closer to reality on April 14 with the introduction of a bill into the House of Representatives. A Senate version of the same legislation was introduced on March 25. The bill would create jobs by giving consumers instant rebates after contractors install energy-saving insulation, HVAC systems, hot water heaters, windows, doors and other products. The program has been funded with \$6 billion. The rebate process, where contractors would seek federal reimbursement through their suppliers or other third-party providers, must provide a level playing field for all retailers. 4/15 HCN
9. **NEMA Publishes SSL 3-2010 High-Power White LED Binning for General Illumination** - NEMA has published SSL 3-2010 *High-Power White LED Binning for General Illumination*. This marks NEMA's first solid state lighting (SSL) standard. Produced by NEMA's Solid State Lighting Section, SSL 3 provides standardized categorization areas (bins) for the colors of "white" light-emitting diodes (LEDs) used for general lighting. LED manufacturers use binning to manage variations in LED performance during mass production. When manufacturers use different binning structures and labeling, LED system integrators and assemblers face unnecessary testing, verification, qualification, and validation processes. The bin structures established by SSL 3 promote continuity among suppliers. The contents and scope of SSL 3 may be viewed, or a hardcopy or electronic copy purchased for \$37, by visiting [www.nema.org/stds/ssl3.cfm](http://www.nema.org/stds/ssl3.cfm)
10. **Seattle Picked to Lead National Effort on LED Street Lights** - The DOE announced 4/19 that Seattle City Light will lead a new national effort to promote the installation of energy efficient light emitting diode (LED) street lights. The Municipal Solid State Street Lighting Consortium will share information, performance results and residents' feedback about LED street lights with participating communities from coast to coast. During the next year, City Light will be responsible for recruiting at least 50 other communities to join the consortium and share their experiences through national and regional meetings, webcasts, web-based discussion forums, and other means. With over 34 million street lights in use across the United States, the DOE estimates that promoting the use of LED technology has the potential to save communities more than \$750 million a year in energy costs alone. Seattle will install 5,000 LED streetlights this year and a total of 40,000 during the next five years. To learn more, visit [www.ssl.energy.gov/consortium.html](http://www.ssl.energy.gov/consortium.html)
11. **Federal Buildings Go Green with \$4 Billion in Recovery Act Funds** - The U.S. General Services Administration (GSA) recently reached the milestone of investing \$4 billion in American Recovery and Reinvestment Act funds for energy efficiency in federal buildings nationwide. Since the passage of the Recovery Act in 2009, the GSA has awarded construction projects to more than 500 companies, creating jobs in all 50 states, two territories, and the District of Columbia. To accomplish this feat, the GSA streamlined operations to quickly award contracts and begin construction on hundreds of green projects. The agency anticipates that all new and significantly upgraded federal buildings will achieve at least a LEED Silver certification, thanks to the GSA's use of sustainable design and technology. The GSA was given \$5.5 billion under the Recovery Act to create green federal facilities. 4/14 EERE Network News



- 12. Construction Spending Drops in February** - Construction spending fell in February by \$11.6 billion, or 1.3%, to \$846 billion, a low last recorded in 2002, according to an analysis of new federal figures by the Associated General Contractors of America (AGC), Arlington, Va. Declines occurred relative to both the month before and February 2009 in most categories of private residential and non-residential construction, as well as public construction, according to Ken Simonson, chief economist for AGC. "Most of the economy seems to be improving, but construction is falling into an even deeper hole," says Simonson. "Bad weather may account for a small part of February's downturn, but most of the contraction reflects ongoing lack of demand, tight credit conditions, and shrinking state and local budgets." <http://ecmweb.com/ezone/construction-spending-drops-20100414/>
- 13. Renewed Call on Congress to Extend Commercial Building Tax Deduction** - NEMA and AIA recently renewed its call on Congress to support increasing the Energy Efficient Commercial Building Tax Deduction from \$1.80 per square foot to \$3 per square foot in order to help stimulate immediate job creation. More than 80 organizations in the manufacturing, construction, and environmental arenas have now co-signed a letter to Congressional members asking for an increase in this particular tax deduction. This represents an increase of more than 40% in the number of signatures since Dec. 2009. <http://ecmweb.com/ezone/commercial-building-tax-deduciton-20100414/>
- 14. Modest Rebound in Architecture Billings Index** - Following a drop of nearly three points, the Architecture Billings Index (ABI) nudged up almost two points in February. As a leading economic indicator of construction activity, the ABI reflects the approximate nine- to twelve-month lag time between architecture billings and construction spending. AIA reported the February ABI rating was 44.8, up from a reading of 42.5 in January. This score indicates a continued decline in demand for design services (any score above 50 indicates an increase in billings). The new projects inquiry score was 52.0. <http://ecmweb.com/ezone/modest-abi-rebound-20100414/>
- 15. U.S. EPA, DOE Announce Changes to Bolster Energy Star Program** - The U.S. Environmental Protection Agency and the Department of Energy today jointly announced changes to the Energy Star product certification process to ensure that only products meeting the program requirements can receive an Energy Star label. These changes accelerate steps DOE and EPA have initiated over the past several months to bolster the verification, testing and enforcement aspects of the Energy Star program. Effective immediately, manufacturers wishing to qualify their products as Energy Star must submit complete lab reports and results for review and approval by EPA prior to labeling. Following a thorough review of the Energy Star qualification approval process, EPA has strengthened its approval systems and is no longer relying on an automated approval process. All new qualification applications will be reviewed and approved individually by EPA. Additionally, companies applying to be program partners will not be able to access the Energy Star certification mark until EPA has approved a specific Energy Star-qualified product submitted by the company. More information: <http://www.energystar.gov>
- 16. GE Fast Forwards to Future of LED Lighting** - GE Energy Smart® LED bulb available later this year or early 2011 is expected to consume just 9 watts, provide a 77-percent energy savings and produce nearly the same light output, 450 lumens, as a 40-watt incandescent bulb, while lasting more than 25 times as long. GE scientists and engineers designed the bulb to better direct light downward on the intended surface and all around, not just out the top of a lampshade, as most current LED bulbs are prone to do. Retailers set pricing but it is expected to be \$40 to \$50. 4/08 BUSINESS WIRE

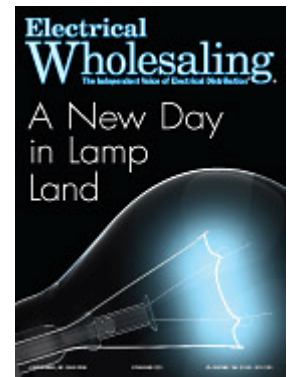


**17. *A New Day in Lamp Land* - By Doug Chandler, Executive Editor 4/10 Electrical Wholesaling**

There's a new excitement in the lamp market. Manufacturers have embraced the disruptive potential of solid-state lighting, which could create huge opportunities for distributors who follow their lead. Once upon a time, Lamp Land was a sleepy place, a mature market with three dominant manufacturers carving up the terrain, making incremental advances in a technology that dated back to the late 19th century and the earliest days of electrification. General Electric and Westinghouse had their own rival distribution chains with locations throughout the United States, and Sylvania fought them for the favor of independent distributors. Smaller lamp manufacturers worked underserved niches they found along the margins. And yet, over just the past few years, sleepy Lamp Land has taken on the feel of a boomtown, a wide-open place where marvels and mischief wait around every turn.

Every source contacted for this article, including people with decades of experience and generations of perspective, agreed that there's never been a more exciting time to be in the lighting business.

[http://ewweb.com/manufacturer/electric\\_new\\_day\\_lamp/](http://ewweb.com/manufacturer/electric_new_day_lamp/)



**18. *Energy-Efficiency Spending to Grow in 2010, Survey Finds* -** Spending on energy efficiency is projected to grow as the economy improves and businesses ramp up capital spending, according to the latest energy-efficiency snapshot from Johnson Controls Inc. The company surveyed more than 1,400 executives in North America about energy costs, carbon-mitigation plans and energy-efficiency spending trends for its annual Energy Efficiency Indicator. The survey found that improving energy efficiency in buildings is by far the biggest priority for business owners and energy managers as a way to reduce carbon emissions. But other factors are also driving interest in energy efficiency, including projections of higher energy costs. On average, those surveyed say energy prices will rise 7 percent in 2010. 4/20 Milwaukee Journal Sentinel

**19. *Recovery Act Funding for 37 Transformational Energy Research Projects Announced* -** The U.S. DOE is awarding \$106 million in funding for 37 ambitious research projects that could fundamentally change the way the country uses and produces energy. Funded through DOE's Advanced Research Projects Agency-Energy (ARPA-E), the \$106 million is awarded to projects that could produce advanced biofuels more efficiently from renewable electricity instead of sunlight; design completely new types of batteries to make electric vehicles more affordable; and remove the carbon pollution from coal-fired power plants in a more cost-effective way. 4/29 DOE

**20. *Presentations Posted from the San Jose Manufacturing R&D Workshop* -** Nearly 250 attendees attended the second annual SSL Manufacturing R&D Workshop, held April 21-22 in San Jose, CA. The workshop presentations and materials have been posted on the DOE SSL website at [www.ssl.energy.gov](http://www.ssl.energy.gov)

**21. *IES Publishes Guide to Lighting for the Aging Eye* -** Posted on April 29, 2010 by Craig DiLouie. As we get older, nothing is more frustrating than not being able to see as well as we used to. An eye examination and new glasses can be a big help, but proper lighting is just as critical. Lighting is going to become an ever more important part of everyday life. This brochure describes some of the changes that can be made to a home's existing lighting to make it more comfortable and secure. <http://www.ies.org/PDF/Home/LightingForAgingEye.pdf>



- 22. *New Home Sales Up Big in March*** - New home sales for March increased 26.9% to a seasonally adjusted figure of 411,000. The National Association of Home Builders accredited the surge to the expiring of the home buyers tax credit by April 30. Regionally, the Northeast saw an increase of 35.7%, the Midwest increased 4.3%, the South increased 43%, and the West increased 5.7% for March. 4/23 HCN
- 23. *Existing-Home Sales Up 6.8%*** - Existing-home sales increased in March with each region of the United States seeing 6% to 7% gains, as buyers react to the home buyer tax credit and favorable affordability conditions in the housing market. Regionally, existing-home sales in the Northeast rose 6% to an annual pace of 890,000 in March and are 25.4% higher than a year ago. In the Midwest, sales rose 7.2% in March to a pace of 1.19 million homes, a 15.5% increase from last year. The South saw a 7.1% increase in sales to a pace of 1.97 million in March, a 13.9% increase over last year. The West saw a 6.6% increase in existing-home sales to 1.30 million in March and are 14.0% over last year's figure. 4/22 HCN
- 24. *Rebirth of the Electrical Contractor*** - Over the next 10 to 20 years, the role of electrical contractors will change dramatically, requiring them to transition from "electricians" to "energy contractors" in order to thrive in the growing green construction market. That's the underlying message found in "The Coming Renaissance of Electrical Contracting," a blog written by Houston Neal of Austin, Texas-based Software Advice, a free online resource that reviews software for electricians. <http://www.softwareadvice.com/articles/construction/the-coming-renaissance-of-electrical-contracting-1021010/>
- 25. *Race Is On to Build Electric Vehicle Charging Stations*** - Electric vehicles are no longer a technology of the future. Californians will be driving the Nissan Leaf and Coda Sedan by the end of the year, and several other automakers have all-electric and plug-in hybrid models in the pipeline. Now the race is on to build electric vehicle charging stations, where drivers can pull up and plug in their cars. Electric cars currently can travel only a limited number of miles before the batteries need to be recharged, leading to what is known in the industry as "range anxiety." There are two solutions to range anxiety: better batteries and charging stations. 5/01 San Jose Mercury News
- 26. *Lighting Controls Association Offers New Online Course*** - EE110: Commissioning Lighting Controls has been added to the Association's online Education Express distance education courses. Education Express provides in-depth education about lighting control and controllable ballast technology, application, system design and commissioning, as well as meta-issues such as commissioning, energy codes, daylighting and other trends. For more information about Lighting Controls Association's Education Express, including a complete course listing, visit the LCA web site at [www.AboutLightingControls.org](http://www.AboutLightingControls.org) or contact Craig DiLouie [cdilouie@zinginc.com](mailto:cdilouie@zinginc.com)
- 27. *Residential Lighting: A Practical Guide to Beautiful and Sustainable Design, 2nd Edition*** - Written by internationally recognized lighting consultant Randall Whitehead, this easy-to-read lighting design guide offers a highly visual introduction to the fundamentals for illuminating the single-family home. Emphasizing the use of "light layering", he advocates using a combination of lighting sources to create a cohesive and versatile lighting system. The book offers advice on design tools and room-by-room lighting strategies. This Second Edition includes a new chapter on how to implement the use of energy efficient lighting design, including updated information on LED lamps, CFL's and daylighting. For more information please click on: [http://www.researchandmarkets.com/product/acc39c/residential\\_lighting\\_a\\_practical\\_guide\\_to\\_be](http://www.researchandmarkets.com/product/acc39c/residential_lighting_a_practical_guide_to_be)

- 28. H.R.5019 - Home Star Energy Retrofit Act of 2010** - Requires the Secretary of Energy to establish: (1) the Home Star Retrofit Rebate Program to provide rebates to contractors to be passed through as discounts to homeowners who retrofit their homes to achieve energy savings. [http://www.rules.house.gov/111/LegText/111\\_hr5019\\_txt.pdf](http://www.rules.house.gov/111/LegText/111_hr5019_txt.pdf) People who install new windows, heaters, refrigerators and other energy-efficient technology in their homes would be eligible for thousands of dollars in federal rebates under legislation the House is taking up. The two-year, \$6 billion program is being referred to as Cash for Caulkers, following on the popular 2009 Cash for Clunkers program that rewarded people for trading in vehicles for more fuel-efficient models.
- 29. Consumers go to Energy Star, Consumer Reports Web Sites for Info on 'Green' Products** - A national survey finds that consumers are most likely to visit Web sites from Energy Star and Consumer Reports in order to get more information about "green" products or manufacturers, according to the latest EcoPulse survey from the Shelton Group. About 32.5 percent of respondents said they went to the Energy Star site, followed closely by Consumer Reports, at 31.4 percent. Yahoo! Green was cited by 24 percent of respondents, while Greenpeace netted an 18.4 percent visitation rate. <http://www.environmentalleader.com>
- 30. CREE** - Q3 of 2010 came in with \$234 million in sales, up 78% (not a typo)—almost \$103 million—over year-earlier results. Chuck Swoboda, chairman and CEO, credited the gain (and the resulting net income, up an unbelievable 1,012%!) “to a combination of strong LED demand and solid execution with our factory ramp. The LED revolution continues to gain momentum. We remain focused on extending our leadership position while we build the scale, cost structure, and channels to win in the market.” 5/06 <http://www.tedmag.com>

## STATE ENERGY ISSUES TO WATCH.....

- 31. DOE Announces \$452 Million in Federal Funding for Communities Nationwide for Retrofits** -
- Maine gets \$30M for energy upgrades
  - Colorado spending \$25 million for energy projects
  - Phoenix gets \$25M grant for green energy project
  - Seattle gets \$20M for building retrofits
  - \$30M to Michigan for energy upgrades
  - Indianapolis gets \$10 million for clean energy
  - Charlotte gets \$6.5 million for energy projects
  - Maryland to receive \$20 million federal energy grant
  - Greensboro gets \$5 million grant to cut energy costs
  - 3 New Hampshire cities to share \$10M for energy efficiency
  - Kansas City gets \$20 million federal grant
  - City of Houston kicks off \$23M energy efficiency project
  - Portland's Clean Energy Works program receives \$20 million federal grant
  - New York communities get \$40 million in federal stimulus funds
  - Etc. etc. etc...



**32. *Appliance Rebates Come and Go, Quickly*** - About \$300 million was set aside for the national program. Whether it is newfound green consciousness ahead of Earth Day — or just the allure of a big discount on a new washing machine or air-conditioner — consumers across the country are snapping up government rebates for energy-efficient appliances. The federal government created the appliance rebate program as part of the 2009 stimulus legislation, and retailers say the rebate programs have boosted sales. 4/19 NY Times

- Colorado's \$18 million energy rebate program sparks high interest
- Energy-efficient appliance rebate program kicks off in Florida. The state estimates the \$17.5 million it has to hand out will cover about 66,000 rebates
- Entire \$6.2 million pool of Energy Star rebates gone in 11 hours in Illinois
- Green rebates for appliances face quick end in Miami
- Missouri and feds will pay you to buy green appliances....\$5.6 million in rebates
- Wyoming has \$460,000 available to offer rebates for new appliances
- Allegheny Power starts rebate program for old appliances and for free CFLs
- Appliance rebate plan about to reach Virginia
- Connecticut has \$3 million to expand the appliance rebate program
- El Paso Electric providing rebates for old refrigerators, freezers
- New Mexico offers rebates for energy-efficient appliances
- Kentucky snagged \$4 million in federal stimulus money for the Kentucky Energy Efficient Appliance Rebate program
- SDG&E and the California Energy Commission have teamed to offer San Diego County residents \$35.2 million of federal stimulus rebates
- Utah begins accepting energy rebate applications
- Ohio extends appliance rebate offer
- Massachusetts announces second round of appliance rebates
- Etc. etc. etc...

**33. *Possible Updates in Store for Massachusetts Electrical Code*** - According to a recent Code Alert issued on April 6, 2010 by the NEMA, the Massachusetts Board of Fire Prevention Regulations (BFPR) recently called for proposals to the 2011 Massachusetts Electrical Code (MEC). The BFPR is the promulgating authority for the MEC and has appointed the Massachusetts Electrical Code Advisory Committee (MECAC) to solicit proposals and review the 2011 NEC Report on Proposals and the 2011 NEC Report on Comments. After MECAC has completed its review of these documents, it will make recommendations to the BFPR regarding potential amendments to the 2011 version of the NEC. 4/08 CodeWatch

**34. *NSTAR Stimulus Plan Helps Businesses Looking to Save on Energy Costs*** - To help local businesses afford projects that will cut their energy use and lower operating costs, NSTAR, Westwood, Mass., is offering a 50% increase in energy-efficiency incentive money for several qualified upgrade projects. The stimulus offer is available for projects approved by NSTAR before August 1 and completed by September 30, or until funding is depleted.

<http://nstar.com/business/>



- 35. *Conn. Senate Passes Energy Reform Bill; Vote 20-14*** - The state Senate on Tuesday passed a wide-ranging energy reform bill that advocates say could lead to lower electric rates but that opponents maintain could ultimately hurt ratepayers. The 129-page bill, considered one of the biggest changes to the state's electric industry since deregulation 12 years ago, passed on a 20-14 vote. With the General Assembly scheduled to adjourn at midnight on Wednesday, the bill now awaits action in the House of Representatives, where it's expected to face stiff opposition from Republicans. The bill calls for adopting California's energy efficient standards for televisions and other appliances and for providing low-interest financing to help property owners make energy efficiency improvements. 5/05 AP
- 36. *NYSERDA Announces New Existing Facilities Program Solid-State Lighting Policy*** - Effective June 1, 2010, NYSERDA Existing Facilities Program will only accept SSL products listed by either ENERGY STAR or DesignLights Consortium's Qualified Products List (DLC QPL). The list of qualified SSL products will be accessible through NYSERDA's The Right Light website (available soon). <http://www.lightnowblog.com/category/led-world/>
- 37. *Energy Efficiency in Southeast to Get Huge Boost, Thanks to \$20 Million U.S. DOE Award to SEEA Regional Alliance*** - The Southeast Energy Efficiency Alliance (SEEA) to roll out its program of innovative, large-scale building retrofits for homeowners and businesses under its recently-announced \$20 million award from the DOE Retrofit Ramp-Up initiative. The regional organization will partner with nearly a dozen communities of varying sizes and characteristics, each of which will use a different approach to increase the energy efficiency of small and large residential, commercial and public buildings. SEEA intends to start this program in early June. For more information on the SEEA program: <http://www.seealliance.org/programs/cities.php>
- 38. *Carolina Codes Update*** - On March 22, 2010, the South Carolina Building Codes Council (SCBCC) formerly adopted a half dozen construction-related building codes. The new codes carry a mandatory enforcement by all jurisdictions in the state and take effect on Jan. 1, 2011. The mandatory codes are all based on the 2009 International Building Codes. 5/06 EC&M
- 39. *Lamar to Retrofit Billboards Throughout Florida with Solar, Wind Power*** - Lamar Advertising Co., which operates more than 150 outdoor advertising companies in more than 40 states and Puerto Rico, has announced a multidimensional project to convert some 1,370 billboards throughout Florida to renewable energy. The \$12.5-million project will place solar or wind power on billboards throughout the state, creating 1,370 individual renewable energy systems that return energy to the electrical grid. The U.S. Department of Energy is providing a \$2.5-million grant to the project through the Florida Energy and Climate Commission and the Governor's Energy Office, while Lamar is funding the remaining \$10 million. 4/29 BUSINESS WIRE
- 40. *Chicago Area Lands Energy-Efficiency Cash*** - The Chicago area has landed \$25 million in stimulus cash to make buildings more energy efficient by retrofitting them. It'll put the money into a program called the Chicago Region Retrofit Ramp-up Program, which aims to retrofit both commercial and residential buildings. Plans include setting up a one-stop-shop info center where building owners can arrange and finance the energy efficiency projects. Supporters say the various programs will help make energy efficiency accessible to hundreds of thousands of homeowners and businesses. 4/22 AP



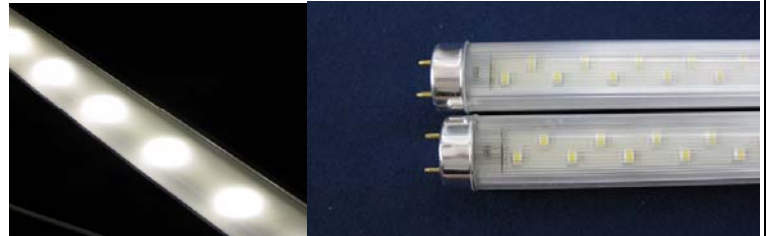
- 41. Madison, WI Gets \$7.2 Million Grant to Help Homes, Businesses with Energy Efficiency** - Madison is getting another \$7.2 million to help homeowners and businesses be more energy efficient. The city has already received \$2.4 million for energy efficiency efforts, and has used funds to make lighting upgrades at eight city facilities and launch programs for small businesses and residences. The new, larger grant will be used to help more homeowners with weatherization projects, assist more businesses with comprehensive retrofits on buildings, and to provide green jobs training. For more information, check the city website, [www.cityofmadison.com](http://www.cityofmadison.com) under "City Highlights." 5/03 The Wisconsin State Journal
- 42. Gov. Nixon to Tout Energy-Saving Efforts** - Gov. Jay Nixon is scheduled to be in St. Louis on 4/26 to highlight the state government's effort to cut energy consumption since he signed an executive order requiring agencies managed by the Office of Administration to reduce energy use by 2 percent annually for 10 years. Nixon's office says the actual first-year savings far exceeded the 2 percent goal, but the specific savings have not been announced. 4/26 AP
- 43. NM Retrofits Traffic Lights to Save Energy** - New Mexico has finished switching traffic lights in 33 communities to energy-saving LEDs. Officials say the thousands of new LED traffic signal lamps installed at 330 intersections throughout New Mexico will save up to 80 percent of the energy used by conventional incandescent lights that operate all the time. LED traffic light arrays use 6 to 12 watts of energy per lamp, depending on the color, compared to 150 watts used by each incandescent bulb they replaced, and last four to nine years longer. 4/26 AP
- 44. Reliant Energy and DOE Finalize \$20 Million Stimulus Grant Agreement to Expand Rollout of Smart Energy Solutions to Texas Residents** - Houston-based Reliant Energy has finalized its contract with the U.S. Department of Energy (DOE) for approximately \$20 million in funding to develop and deliver innovative energy solutions for Texas electricity customers. Reliant is the only competitive electricity provider in Texas to have been selected to receive a grant through the American Reinvestment and Recovery Act. 4/30 EC&M
- 45. California Title 20 Mandates Higher Efficiency for Metal Halide Luminaires** - by Craig DiLouie, Lighting Controls Association California new Title 20 standards, which went into effect January 1, 2010, created new energy efficiency standards for 150-500W metal halide light fixtures used in indoor and outdoor applications. These fixtures may not be manufactured in the State of California unless they meet the new standards. For the most part, the fixture will have to be pulse-start and achieve a higher level of efficiency or be controlled by an occupancy sensor or photocontrol. [http://www.aboutlightingcontrols.org/education/papers/2010/2010\\_title20.shtml](http://www.aboutlightingcontrols.org/education/papers/2010/2010_title20.shtml)
- 46. Northwest Utilities Renew Commitment to Regional Energy Efficiency Efforts** - Today the Northwest Energy Efficiency Alliance (NEEA) announced that 13 regional energy organizations have pledged to renew their investment in NEEA with \$192 million for the 2010-2014 period. NEEA's funding backs an aggressive plan to save the region 200 average megawatts (aMW) of power by 2014. NEEA's funding organizations are based in Idaho, Montana, Oregon and Washington and represent about 130 regional public utilities on behalf of Northwest energy consumers. NEEA's five-year business plan outlines how NEEA will work to increase the market adoption of energy-efficient products and services through collaboration, and to increase the availability of new energy-efficient technologies. <http://www.nwalliance.org/> 5/04 /PRNewswire



**MONTHLY FEATURE... DOE Has Just Published a Fact Sheet on LED T8s - LED Performance Specification Series: LED T8 Replacement Lamps**

[http://apps1.eere.energy.gov/buildings/publications/pdfs/ssl/t8\\_replacement-lamps.pdf](http://apps1.eere.energy.gov/buildings/publications/pdfs/ssl/t8_replacement-lamps.pdf)

LED T8 replacement lamps are proliferating in the lighting marketplace. How do these products compare to fluorescent T8 systems in terms of light output, distribution, color quality, and energy efficiency? What level of LED product performance should buyers specify for replacement applications?



Recessed “troffer” fixtures with four-foot fluorescent T8 lamps are commonly specified in commercial and institutional lighting applications, and represent a significant installed base of fluorescent fixtures. Are LED replacement lamps a “drop-in” equivalent to T8 fluorescent lamp-ballast systems, as claimed by many manufacturers? DOE’s CALiPER program has tested 12 different LED T8 replacement lamps to date, and finds that their performance falls short of fluorescent benchmarks. <sup>1</sup> Major findings (bare lamp and in a fixture) are summarized and compared with fluorescent benchmarks in Table 1.

Average initial bare lamp light output of the LED T8 replacements tested was about one-third the average for fluorescent T8s. On initial two-lamp system efficacy, two-lamp fixture output, luminaire efficacy, and CRI, the LED T8 replacement performance was significantly below that of the fluorescent T8s. Average fixture efficiency was higher with LED T8s because LEDs are directional, so less light is lost inside the fixture. **This was not enough to compensate for the much lower light output however.**

<sup>1</sup> See CALiPER Round 5 and Round 9 summary reports for additional details: [www.ssl.energy.gov](http://www.ssl.energy.gov).

**Table 1. CALiPER Test Results for 4-foot LED T8 Replacements with Fluorescent Benchmarks**

Performance Characteristics	LED T8 Replacements		Fluorescent Benchmarks	
	Range (12 lamps tested)	Average	Mfr. Data (75 lamps)	CALiPER (2 fixtures tested)
Initial Lamp Light Output (lm)	345 – 1,579	1,111	2,778	3,091
Initial 2-Lamp System Efficacy (lm/W)	19 – 76	50	87	---
Initial 2-Lamp Fixture Light Output (lm)	597 – 2,038	1,563	3,577	4,064
Initial CRI	63 – 76	71	75 – 80	82
Fixture Efficiency (%)	74 – 86	83	74	66
Initial Luminaire Efficacy (lm/W)	17 – 57	41	64	57

The bottom line is that to provide equivalent light to fluorescent T8s while keeping power input for these products at their current range (15-20 watts), LED T8s will have to become two to three times more efficacious than they currently are. Postings from Jim Brodrick [postings@lightingfacts.com](mailto:postings@lightingfacts.com)