

# EnergyWatch



September 2013

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***Special Request:*** *Abe's Garden Lighting Industry Campaign* - Christopher Brown, CEO of Wiedenbach-Brown and Scott Muse, President of Hubbell Lighting are asking friends and colleagues in the lighting industry for their help. Both Chris and Scott lost their Mom's to Alzheimer's, and they became involved with Abe's Garden, an organization that is establishing an Alzheimer's and Memory Care Center of Excellence in Nashville, TN. Brown and Muse recognized that innovative lighting concepts and products could make an impactful contribution to the lives of Alzheimer's patients. They sponsored research at the RPI Lighting Research Center, led by Dr. Mariana Figueiro, which resulted in a paper of special interest to the Lighting Industry, which was published in the Journal of Alzheimer's Disease (<https://www.abesgarden.org/lighting>). Abe's Garden is developing its best practice model for dementia care through a committed collaboration with Vanderbilt Center for Quality Aging. Chris writes: "Together we can demonstrate how lighting, and its champions, can improve the lives of individuals impacted by Alzheimer's and related dementias." Your contribution is much appreciated and can be made under Lighting Industry Campaign at: <https://www.abesgarden.org/donate/make-contribution-abes-garden>

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## ***Something to Think About...***

***Effective Communications is Your Responsibility*** - The great communicators are well known and I'm sure your list is as good as mine and we most likely agree on many. All great leaders share the same quality: superior communication skills. They connect with others in ways that almost always yield positive results. Here's my assessment as to how they do it:

1. Continue to work on developing superior interpersonal skills
2. Understand your behavioral style and that of others and act accordingly
3. Make positive contact in a diverse environment
4. Become an exceptional listener
5. Maintain emotional control even with controversial issues
6. Be aware of your nonverbal communication so it complements your verbal communication
7. Know your audience and adapt your message to fit that audience
8. Stay in the present and look forward to the future with optimism
9. Encourage feedback, evaluate criticism and improve your communication skills from the learning
10. ***The skill to do comes in the doing - Cicero***



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## National Energy Issues to Watch...

- 1. Strong LED Growth Helps Drive Electrical Sales** - The strong growth of LED components is increasing business for many electrical manufacturers and distributors and that is evident from the recent fiscal earnings report of Cree reporting sales of \$1.4 billion in revenue for fiscal 2013, a 19 percent increase in sales due to LED expansion, new products and its other lighting and power businesses. Digitimes Research forecasts that the global LED lighting market will be worth US\$25.4 billion in 2013, representing 54% growth on the 2012 figure of US\$16.5 billion. Another industry report says that while LEDs currently account for only 10% of the total lighting market, the percentage contribution is estimated to increase to as high as 60% by 2020. Japan now has the highest LED lighting market penetration rate of any region, with the rate set to rise to 73.8% by 2015, followed by Europe and North America. In addition, a new report issued this week by LEDinside notes that China's LED residential lighting market will reach \$814 million in 2013 to represent a 24 percent share of the overall global market. **There are about 400 LED manufacturers in the U.S. and abroad.** <http://www.tedmag.com>
- 2. Call for Nominations: 2014 ENERGY STAR Emerging Technology Award** - The U.S. EPA invites your feedback on candidate technologies for the 2014 ENERGY STAR Emerging Technology Award. [www.energystar.gov/emergingtech](http://www.energystar.gov/emergingtech) **The deadline to submit nominations is October 4, 2013.** The ENERGY STAR Emerging Technology Award was created to raise the profile of innovative technologies that may not yet meet key principles associated with the ENERGY STAR program (e.g. widely available, cost-effective), but have the potential to significantly reduce greenhouse gas emissions once they are more widely adopted. As products in these categories become more mainstream, the relevant product categories then become candidates for ENERGY STAR specification development. Nominations should be sent to [emergingtech@energystar.gov](mailto:emergingtech@energystar.gov)
- 3. Goldman Sees 'Creative Destruction' in Eight Industry Themes** - Goldman Sachs analysts described as "creative destruction" - trends that are big and disruptive enough to reshape industries and draw in an increasing number of investors. Cancer immunotherapy. **LED lighting**, natural gas engine technology, software defined networking and big data are among the trends Goldman analysts see as mega trends that will change the behavior of consumers and force companies to "adapt or die." LEDs could have 80 percent penetration by 2025, Demand is now in the early stages but the general lighting market is large - \$11 billion. LED is about five percent of the market and it is being driven by industrial and commercial demand. Goldman believes Cree is the most attractive play and it has a technology advantage. <http://www.cnbc.com>
- 4. Lighting Controls for Energy Management Published** - IES announces the publication of *Lighting Controls for Energy Management (LEM-7-13)*. Lighting controls play an essential role in all lighting systems, especially when used to enact various control strategies to satisfy visual needs of users and energy management needs of owners. The publication addresses these needs. <http://www.ies.org/store/product/lighting-controls-for-energy-management-1303.cfm>
- 5. Electrical Industry Apps** - The NAED Strategic Technology Task Force has developed a list of industry apps <http://www.naed.org/strategictechnology/#tabs-5> produced by both distributor and manufacturer members. If your company has an app that you would like to share, email the app and link to: [Bethanysullivan@msn.com](mailto:Bethanysullivan@msn.com)



6. **LEducation 8 Issues Call for Speakers** - The Designers Lighting Forum of New York announced its “Call for Speakers” for LEducation 8, a single day exhibition and educational event dedicated solely to the ever evolving LED market and technology. **LEducation 8 will return to New York City on March 18-19th, 2014 in a new 2-day format and in a new venue – the Sheraton NY Times Square hotel.** Speaker proposals will be accepted through 5 p.m. EST, October 15th, 2013. Proposals should be submitted online: <http://www.leducation.org/call-for-presenters.html>
  
7. **LIGHTFAIR 2014 Call for Speakers - SUBMISSION DEADLINE: SEPTEMBER 16, 2013**  
 LIGHTFAIR® International 2014 Conference curriculum will champion integrated design as a central theme linking all courses, workshops and seminars in common focus to illustrate how technology, tools, problem-solving and inspiration converge in contemporary practice. Share your knowledge: <http://www.lightfair.com/lightfair/V40/index.cvn?id=10301>
  
8. **Luminaires Verification Testing: Proposal to Reduce Duplicate Light Source Testing** - The U.S. EPA is proposing to reduce duplicate testing of the same light source during verification testing for luminaires by directing certification bodies (CBs) to share test data for light sources used in multiple luminaires. This proposal is to address manufacturer concerns about duplicate light source testing. Share any questions or concerns about this policy with EPA by sending your comments to [Certification@energystar.gov](mailto:Certification@energystar.gov) no later than **August 30, 2013**.
  
9. **On the Lighter Side: Mr. LED Lighting Takes a Tour of the Hospital** - Are you sick and tired of fluorescent and incandescent lighting? If so then maybe you need to get yourself to a hospital, they have plenty of OLEDs and LEDs there. Let's hope you don't require surgery but if you do it's likely the lights used in the surgical theater will be a sophisticated LED product. The screens that deliver important information to the staff is likely to be an OLED or TFT screen - with or without some LED indicators as well. There are examples of SSL in photo dynamic therapy (PDT), OLEDs that are used in ophthalmological vision restoration masks, triage informational tags, or even embedded into dermal repair bandages all designed to use the newest tech in quicker healing. And let's not forget the role of SSL in the hospital's general lighting.  
<http://www.sslighting.net/documents/view/news.php?id=123232#editorial>
  
10. **New DOE SSL Technology Fact Sheet on Lifetime and Reliability** - The U.S. DOE has come out with a new SSL Technology Fact Sheet, [Lifetime and Reliability](#), to help users gain a better understanding of typical causes for LED product failures, the difference between lifetime and reliability, and methods for measuring and reporting lifetime and reliability. LED system performance is more affected by interactions between system components than most conventional lighting systems. The failure of any system component—not just the array of LED packages, but also the electronics, thermal management, optics, wires, connectors, or seals, for example—can lead to product failure. [www.ssl.energy.gov/factsheets.html](http://www.ssl.energy.gov/factsheets.html)
  
11. **Residential Lighting End-Use Consumption** - The U.S. DOE Residential Lighting End-Use Consumption Study aims to improve the understanding of lighting energy usage in U.S. residential dwellings using a regional estimation framework. The framework allows for the estimation of lamp usage and energy consumption 1) nationally and by region of the United States, 2) by certain household characteristics, 3) by location within the home, 4) by certain lamp characteristics, and 5) by certain categorical cross-classifications. <http://www.ies.org/store/product/lighting-controls-for-energy-management-1303.cfm>



**12. LED Lighting System Technology Trend & Market Forecast (2012~2020)** - The LED lighting system market is expected to kick into high gear around 2013 and start to grow rapidly from 2015. In terms of revenue, the market is expected to reach \$55 billion by 2020, from a mere \$93 million (2012), with a high growth rate of 92.4 percent CAGR. For more information on this report: [http://www.solarnenergy.com/include/inquiry/eng\\_solar.php?report\\_id=828](http://www.solarnenergy.com/include/inquiry/eng_solar.php?report_id=828)

**13. NEMA Publishes NEMA WD 9-2013** - The National Electrical Manufacturers Association (NEMA) published NEMA WD 9-2013 *Dimmers, Photoelectric Controls, Presence Sensors, and Multi-outlet Bars Energy Consumption Testing and Labeling*. Initially developed to comply with a Mexican regulation, NEMA WD 9-2013 is useful for domestic energy efficiency programs. It provides a standardized testing method to measure and label the standby energy consumption of dimmers, photoelectric controls, presence/motion sensors, and multi-outlet bars. [NEMA WD 9-2013](#) may be downloaded at no cost or purchased in hard copy for \$21 on the NEMA [website](#)

**14. Orion Switch Back 'On'** - Shares of the Manitowoc, WI maker of energy-efficient lighting tumbled to below \$1.50 a share in September 2012 from more than \$20 following its initial public offering in 2007. Its market capitalization tumbled with it, falling below \$50 million from \$450 million. New leadership has reignited interest in Orion's stock which bottomed at \$1.12 a share in December, hit \$4.30 earlier this month. It closed Friday at \$3.16. Its \$10 million acquisition of Florida-based Harris Manufacturing Inc. and Harris LED in July gives Orion an entry into new markets, including the federal government, retail stores and new construction. The LED market for commercial buildings is projected to grow to \$25 billion in 2021 from \$2.7 billion this year. A big shift is forecast in lamps sold for retrofit projects -- the target market for Orion. LEDs this year are expected to account for 5% of all lamps sold to retrofit projects, but that is projected to increase to 40% by 2017. For LED technology, the tipping point in the technology-advancement and cost-cutting curves is likely to occur in the next 12 to 24 months, according Navigant Research. 8/17 Milwaukee Journal Sentinel

**15. Not All LEDs are Created Equal** - LEDs are undeniably the future of lighting. The DOE estimates that by 2030, LED lighting will own a 74 percent market share. As LEDs become the increasingly obvious choice for any lighting project, specifying quality, efficiency and functionality will ensure that each lamp lives up to its reputation. Energy efficiency shouldn't be the only priority that building owners, facility managers, architects, builders or owners focus on when it comes to choosing LED lighting. The thought and attention put into quality and color consistency can make a significant difference in the lamp life, functionality, aesthetics and energy savings. ENERGY STAR provides qualifications for the LED lamps that meet its stringent specifications. <http://www.edcmag.com/articles/95109-not-all-leds-are-created-equal>

**16. Version 1.0 ENERGY STAR Specification for Lamps** - The U.S. EPA announces the release of the final ENERGY STAR Lamps V1.0 specification. Lamps V1.0 will replace the Compact Fluorescent Lamps V4.3 and Integral LED Lamps V1.4 specifications on September 30, 2014. This specification raises the bar for CFL performance, reduces testing burden while maintaining performance integrity, and establishes the first set of testing and baseline requirements for dimmable lamps. A more comprehensive summary and response to comments, along with all materials related to the Agency's development of the Lamps V1.0 specification can be found at [www.energystar.gov/lamps](http://www.energystar.gov/lamps) Additional resources will be posted at [www.energystar.gov/lightingfaqs](http://www.energystar.gov/lightingfaqs)



ENERGY STAR Lamps  
V1.0 Final Specificatio



- 17. DOE Announces FY 2014 SBIR/STTR Funding Opportunity** - The U.S. DOE Office of Science announced a funding opportunity on August 12, 2013, for the Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) Programs. Under this opportunity (DE-FOA-0000969), DOE seeks applicants for funding directed toward FY14 Phase I and Fast-Track (combined Phase I and Phase II) projects. Topics for this funding opportunity can be found at <http://science.energy.gov/sbir> and include solid-state lighting. Qualified small businesses with strong research capabilities in science or engineering in any of the research areas sought in the announcement are encouraged to apply. The OLED community is encouraged to review topic 13c.
- 18. A New Snapshot Report on Outdoor Area Lighting** - Snapshot Reports utilize the U.S. Department of Energy's (DOE) [LED Lighting Facts](http://www.ssl.energy.gov/ledlightingfacts.html)<sup>®</sup> product database – which currently has more than 8,900 products registered – to help industry stakeholders understand the current state and trajectory of the SSL market for a particular application or group of applications. The [latest Snapshot Report](#), released last month, focuses on LED outdoor area lighting, including the LED Lighting Facts categories for outdoor area and roadway, parking garage, and canopy luminaires. [www.ssl.energy.gov/ledlightingfacts.html](http://www.ssl.energy.gov/ledlightingfacts.html)
- 19. 74% Market Penetration Predicted for White-Light LED** - A comprehensive U.S. DOE report predicting the market penetration of LED white-light sources from 2010 to 2030 is available free from the National Lighting Bureau ([www.nlb.org](http://www.nlb.org)). Titled *Energy Savings Potential of Solid-State Lighting in General Illumination Applications*, the report, released last year but not updated since, predicts that growing reliance on LEDs. The report predicts that, compared to conventional incandescent, halogen, fluorescent, and HID white-light sources, the rate of LED market penetration will increase steadily, rising to 36% of general-illumination lumen-hour sales in 2020, and to 74% percent by 2030. <http://www.nlb.org/index.cfm?cdid=10975&pid=10213>
- 20. Cree Shines Bright in Fourth Quarter** - Cree announced revenue of \$375.0 million in the fourth quarter, up 22% from revenue of \$306.8 million in the same quarter last year. Net income for the fourth quarter was \$28.2 million, up 182%. For the full year, Cree's revenue of \$1.39 billion marked a 19% increase over the previous year. Net income for the fiscal year was \$86.9 million, up 96%. Cree's product families include LED fixtures and bulbs, blue and green LED chips, high-brightness LEDs, lighting-class power LEDs, power-switching devices and RF devices. 8/15 HCN
- 21. Honeywell Exits the LED Business** - Honeywell leadership has decided to exit the LED business in North America. The leadership team's decision was required based on significant personnel changes at the Honeywell LED factory in China, lack of engineering capability needed to support and scale the business along with other business factors. This change will allow focus on the E-Mon core meter business and other Honeywell product lines. See Don Millstein's announcement letter: [http://www.edisonreport.net/files/4813/7659/8879/LED\\_Update\\_Annoucement\\_8\\_13.pdf](http://www.edisonreport.net/files/4813/7659/8879/LED_Update_Annoucement_8_13.pdf)
- 22. HID Lamp Shipment Indexes Remain Dim** - NEMA's shipment indexes for HID lamps declined on a year-over-year basis for the fourth consecutive quarter in 2013Q1. Shipments of sodium vapor lamps decreased 14.1 percent to an index reading of 71.2 during the quarter. Mercury vapor lamp shipments were down a similar magnitude at 13 percent to 44.2, the third lowest level in the index series. Metal halide lamp shipments fell too, posting an index value of 77.5, a decrease of 9.5 percent. See more at: <http://www.lightnowblog.com/#sthash.WYnE5e6m.dpuf>



**23. Explore CLTC's New Website** - The CLTC site is now faster and easier to use, making it one of the best online resources for those engaged in lighting research, development and commercial innovation. New features include responsive Web design, so whether you are checking events from your smart phone, reading a case study on your tablet, or watching a video on your laptop, content is automatically optimized for your device. <http://cltc.ucdavis.edu/article/cltc-new-website>



**24. Fourth Annual ENERGY STAR National Building Competition Begins** - Battle of the Buildings... teams from more than 3,000 buildings across the country are competing to see who can most reduce their buildings' energy use. In support of the Climate Action Plan, which calls for buildings to cut waste and become at least 20 percent more energy efficient by 2020, the competition specifically targets wasted energy in commercial buildings and motivates businesses to improve energy efficiency, reduce harmful carbon pollution and save money. The number of participants in the Battle of the Buildings has increased from 14 buildings in 2010—the competition's first year—to more than 3,200 buildings in 2013. [www.energystar.gov](http://www.energystar.gov)

**25. LED-Based Luminaires: New Designs from Cree, Acuity, and GE Lighting** - We are seeing more and more innovation in form factor and functionality in solid-state lighting products as lighting manufacturers better understand how to leverage LED sources. Cree, for example, combined LEDs in an indirect fashion with a complex optical design to deliver a new parking-garage fixture that delivers uniform light. Peerless has announced a 4-inch cylindrical fixture that includes an optic that provides continuous smooth lighting and can produce direct or indirect illumination or both. GE Lighting, meanwhile, added a lower-cost planar model to its Lumination family that is lit from the rear. <http://ledsmagazine.com/news/10/8/5>

**26. Philips Issues Recall of Endura and Ambient LED Bulbs** – The recall is due to defects in a lead wire within the bulb's housing, which can potentially pose a shock hazard. The wire, which is ill-fitted, can electrify the entire lamp and shock the customer. No injuries have been reported. The recall affects about 99,000 units of Endura 12-watt and Ambient 12.5-watt LED Dimmable bulbs. 8/16 HCN

**27. Osram Starts Trading as Spinoff from Siemens** - In what had been regarded as one of the largest spinoffs in the electrical industry, Osram Licht AG has started trading on the Frankfurt and Munich stock exchanges under the symbol "OSR." With this move Siemens AG shareholders received 10 Osram shares for each share they own. A total of 80.5 percent of the more than 100 million no-par-value registered shares were available for sale. Siemens AG holds 17 percent of the capital stock of OSRAM Licht AG. <http://www.tedmag.com>

**28. Osram and Sharp Have Cross-Licensed LED and Laser-Diode Patents** - Osram GmbH based in Munich, Germany, and Sharp Corp based in Osaka, Japan each will get access to the other's intellectual property (IP) that is registered with patent authorities around the globe. The companies jointly said that cooperation could help accelerate further advancements both at the R&D level and in commercially available LEDs and laser diodes, and in related products such as SSL systems, modules and luminaires. The company has been very active in cross-licensing agreements striking deals with Nichia, Philips, Cree, Toyoda Gosei, Samsung, and LG previously. <http://ledsmagazine.com/news/10/8/17>



29. **WSJ Evaluates Hue, Lutron, Belkin** - How many gadgets does it take to turn on a light bulb? Tech companies have released all types of gizmos that let you control your lights via remote or smartphone, but only a few are genuinely useful and easy to set up. Michael Hsu joins Lunch Break. [Watch the video at WSJ.com](#)
30. **The Future of Commercial Efficiency Programs and LED Lighting** - Dan Mellinger, Lighting Strategy Manager for Efficiency Vermont, recently published a whitepaper that discusses the future of commercial efficiency programs and LED lighting. It addresses the significant opportunity that remains, despite years of fluorescent upgrades, and the importance of controls and design. [http://www.encyvermont.com/docs/about\\_efficiency\\_vermont/whitepapers/White\\_Paper\\_Mellinger.pdf](http://www.encyvermont.com/docs/about_efficiency_vermont/whitepapers/White_Paper_Mellinger.pdf)
31. **Smart Meters for C&I Markets Will Total \$19.1 Billion in Revenue from 2012 to 2020** - According to the recent report, "Smart Meters for Commercial and Industrial Markets," from Navigant Research, cumulative worldwide revenue from smart meters for commercial and industrial (C&I) customers will total \$19.1 billion from 2012 to 2020. It also provides market forecasts through 2020: <http://www.navigantresearch.com/research/smart-meters-for-commercial-and-industrial-markets>
32. **'Smart Glass' Blocks Heat, Light at Flip of Switch** - Researchers say they have created a new kind of "smart glass" -- one that can, at the flip of a switch, block heat and still stay transparent, or grow dark to reduce the sun's glare. This material, described online Wednesday in the journal Nature, could one day help slash energy costs and reduce pollution from buildings like the glass monsters that tower out of urban cityscapes. Such 'tunable' windows could help reduce lighting, heating and air-conditioning costs across cities. 8/15 Los Angeles Times
33. **Lighting Rep Network Debuts New Website to Pair Sales Reps with Quality Manufacturers** - Created by Michael Katz and Dan Schmalen, LRN thoroughly evaluates lighting manufacturers to ensure reliability. Through a free subscription, LRN membership provides the network of lighting sales reps the opportunity to take on new manufacturing lines in their respective territories. Product quality, customer service, commission and shipping methodology must meet or exceed the LRN's standards to be considered credible for representation by Network members. <http://lightingrepnetwork.com>
34. **Catch The Buzz at LCA** - The Lighting Controls Association offers a new feature at their website--THE BUZZ. This new section provides a single page from which you can access social media feeds (Facebook, Twitter and YouTube) from Lighting Controls Association members going back to 2010. <http://lightingcontrolsassociation.org/social-network-feeds-2013/>
35. **The OLEDs Summit** - Only at the 15th annual OLEDs World Summit will you see Sony, LG Display, Konica Minolta, UDC, Panasonic, Philips and Sungkyunkwan University (SKKU) and many more of the industry's most influential players in one room together talking about the future of OLEDs - and only OLEDs. <http://www.oledsworldsummit.com/home.aspx>



36. **DOE Street Lighting Consortium Annual Meeting** - There is still time to register for the [Municipal Solid-State Street Lighting Consortium](#) (MSSLC) 2013 annual meeting, which will be held on **Wednesday, September 11**, in conjunction with the IES Street and Area Lighting Conference in Phoenix, AZ. This meeting is your opportunity to hear firsthand from cities and utilities about their experiences with LED street lighting. View the agenda and register at: [DOE SSL website](#)

37. **NECA 2013 Coming to Washington, D.C., October 12-15** - The electrical industry's biggest trade show includes displays from 300 exhibitors and 19 FREE technical workshops on those days. On Friday the 11<sup>th</sup> and Saturday the 12<sup>th</sup>, a burgeoning slate of pre-convention workshops and special events are scheduled: <http://bit.ly/15jBTkw> Each attendee can obtain CEUs for attending each (and every) one of the pre-Convention education sessions. SPECIAL FREE ADMISSION CODE, input PR6F [https://www2.cmrreg.com/neca\\_c4/register.aspx](https://www2.cmrreg.com/neca_c4/register.aspx)



38. **2013 DOE Eight Annual Solid-State Lighting Market Introduction Workshop** - November 12–14, 2013 • The Benson Hotel, Portland, OR. This “meeting of the minds” is your opportunity to:

- Get and share perspectives from leading utilities, efficiency programs, municipalities, retailers, distributors, designers, and specifiers
- Ask DOE and industry experts all your questions about LED lighting

<http://www1.eere.energy.gov/buildings/ssl/portland2013.html>

39. **Tesla Model S Is Rated the Safest Car of All Time** - Tesla's Model S has been rated as the safest car ever. The National Highway Traffic Safety Administration scored the car as an unheard of 5 stars in every single category (only 1 percent of cars). In fact, the car scored so high that the final, combined score beats 5 stars. Its final 5.4 rating is the highest ever, making an electric car the safest on the road, including vans and SUVs. The score represents the probability of injury from front, side, rear and rollover accidents. [Tesla, the best performing automaker this year](#), has seen its shares jump to \$147, up almost 300 percent so far in 2013. <http://www.greenbiz.com/blog/2013/08/21/tesla-model-s-rated-safest-car-all-time>

40. **Energy Department Invests \$16 Million to Harness Wave and Tidal Energy** - The Energy Department's new [Energy 101 video](#) illustrates the basics of how MHK devices capture energy from the motion of waves, tides and even river currents. Covering about three quarters of earth, our oceans are one of the biggest potential renewable energy sources on the planet. The Energy Department estimates that the maximum theoretical electric generation that could be produced from U.S. wave and tidal resources is approximately 1,420 terawatt hours (TWh) per year. That's about one-third of the nation's total annual electricity usage. Of course, not all of this theoretical potential will be developed, but this vast resource clearly holds promise as one of the clean energy sources of the future. <http://energy.gov/articles/energy-department-releases-new-energy-101-video-ocean-power>





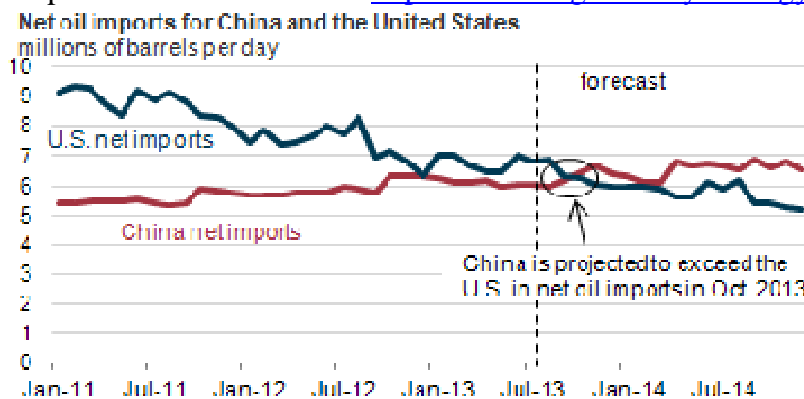
**41. Renewable Energy Provides 14% of US Electrical Generation During First Half of 2013 -**

According to the latest issue of the U.S. Energy Information Administration's (EIA) "Electric Power Monthly," with preliminary data through to June 30, 2013, renewable energy sources (i.e., biomass, geothermal, hydropower, solar, wind) provided 14.20 percent of the nation's net electric power generation during the first half of the year. For the same period in 2012, renewables accounted for 13.57 percent of net electrical generation. The balance of the nation's electrical generation mix for the first half of 2013 consisted of coal (39.00 percent - up by 10.3 percent), natural gas and other gas (26.46 percent - down by 13.6 percent), nuclear power (19.48 percent - up by 0.2 percent), and petroleum liquids + coke (0.66 percent - up by 15.6 percent). The balance (0.21 percent) was from other sources and pumped hydro storage. <http://www.renewableenergyworld.com>

**42. Short-Term Energy Outlook at <http://www.eia.gov/> -**

	2011	2012	2013 projected	2014 projected
<b>WTI Crude Oil<sup>a</sup></b> (dollars per barrel)	<b>94.86</b>	<b>94.12</b>	<b>96.96</b>	<b>92.96</b>
<b>Brent Crude Oil</b> (dollars per barrel)	<b>111.26</b>	<b>111.65</b>	<b>105.80</b>	<b>99.75</b>
<b>Gasoline<sup>b</sup></b> (dollars per gallon)	<b>3.53</b>	<b>3.63</b>	<b>3.52</b>	<b>3.37</b>
<b>Diesel<sup>c</sup></b> (dollars per gallon)	<b>3.84</b>	<b>3.97</b>	<b>3.92</b>	<b>3.76</b>
<b>Heating Oil<sup>d</sup></b> (dollars per gallon)	<b>3.68</b>	<b>3.76</b>	<b>3.73</b>	<b>3.59</b>
<b>Natural Gas<sup>d</sup></b> (dollars per thousand cubic ft)	<b>11.03</b>	<b>10.66</b>	<b>10.79</b>	<b>11.91</b>
<b>Electricity<sup>d</sup></b> (cents per kilowatthour)	<b>11.72</b>	<b>11.88</b>	<b>12.11</b>	<b>12.43</b>

**43. China Poised to Become the World's Largest Net Oil Importer Later This Year -** EIA's August 2013 Short-Term Energy Outlook (STEO) projects that China's net oil imports will exceed those of the United States by October 2013 on a monthly basis and by 2014 on an annual basis, making China the largest importer of oil in the world <http://www.eia.gov/todayinenergy/detail.cfm?id=12471>



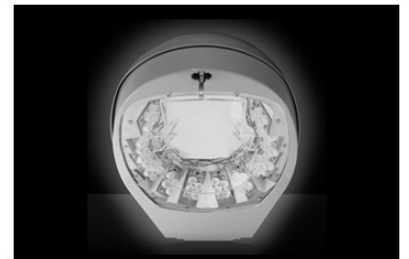
## State Energy Issues to Watch...



**44. BARRON TRACE\*LITE Lights Up the Washington Monument** - The National Park Service hosted a special ceremony to light the Washington National Monument as it undergoes repairs from damages caused by the 2011 earthquake. The Monument lights up each night at dusk, with 488 LED TRACE\*LITE fixtures manufactured by Barron Lighting Group. Sensors were installed that will illuminate the national icon each night until it reopens sometime in Spring 2014.

**45. Deadline to Apply for Pennsylvania DEP's Small Business Grants Extended** - Extended to Tuesday, Oct. 8, businesses can apply for 50-percent matching funds of up to \$9,500 to adopt or acquire energy-efficient or pollution-prevention equipment or procedures. Eligible projects include HVAC and boiler upgrades, high-efficiency lighting, solvent recovery systems, waste recycling systems and auxiliary power units deployed as anti-idling technology for trucks. Funding is eligible for costs incurred between July 8, 2013 and June 30, 2014. [www.dep.state.pa.us](http://www.dep.state.pa.us)

**46. MGM Grand Detroit Completes One of Nation's Largest LED Parking Garage Retrofits** - MGM Grand Detroit has completed the LED retrofit of its 61-acre parking garage. Cited as one of the nation's largest LED parking garage makeovers, the three-month installation boasts 3,117 LED fixtures. As a part of the MGM Resorts *Green Advantage* sustainability platform, MGM Grand Detroit's newly refurbished parking garage is one of many energy conservation projects underway by MGM Resorts. Earlier this year, the company initiated a program to install 1,600 induction technology lighting fixtures covering 160 acres of open lot parking area at its resorts in Las Vegas. For more information about MGM Resorts International: [www.mgmresorts.com/csr](http://www.mgmresorts.com/csr)



**47. City of Pompano Beach Selects Evolucia's LED Cobra Head Fixtures** - Evolucia, Inc. announced that it has completed the initial installations of its 200 Watt LED cobra head fixtures along the main thoroughfares in Pompano Beach, Florida. The city of 100,000+ is replacing its inefficient 460 Watt metal halide streetlights with Evolucia's 200 Watt LED Aimed Optics cobra head luminaires. Evolucia's fixtures were tested and compared side by side against the leading products in the industry, and outperformed every competing fixture. <http://www.evolucia.com/product/exterior/roadway>

**48. Council Wants More Light on LED Project** - When it comes to replacing street lights, Pueblo, CO City Council wants a little more light on the subject before going ahead with a project that could cost nearly \$6 million. The city has been discussing for three years replacing the city's 8,700 street lights with new LED lights. Executives from Next Step Energy, of Aurora, came to council's work session Monday and said they had been working with Pueblo city staff for three years. They questioned the costs that Black Hills was estimating in the proposed contract with the city and said that cheaper providers were easily found. 8/06The Pueblo Chieftain



## Monthly Special Feature... <http://www1.eere.energy.gov/buildings/ssl/factsheets.html>

### Technology Fact Sheets

This page contains links to fact sheets describing solid-state lighting, its characteristics, applications, and issues relating to its successful introduction into the marketplace.

Learn more about wattage and lumens in the [Establishing LED Equivalency](#) fact sheet.

### SSL Basics

#### [Using LEDs to Their Best Advantage](#)

Exploration of the unique attributes of LEDs, which may make them the right choice for some applications (4 pages, January 2012)

#### [Establishing LED Equivalency](#)

Provides guidance for comparing products based on LED or other light source technologies (2 pages, October 2011)

#### [LED Frequently Asked Questions](#)

What retailers, energy efficiency advocates, and consumers need to know to make informed buying decisions (2 pages, May 2011)

### SSL Applications and Product Categories

#### [LED Directional Lamps](#)

Provides an overview of the current performance of LED PAR-, BR-, R-, and AR-shaped lamps, which were all investigated by CALiPER in 2012. (2 pages, November 2012)

#### [LED MR16 Lamps](#)

Describes the performance of LED MR16 lamps and discusses electronic compatibility concerns. (4 pages, July 2012)

#### [Recessed LED Downlights](#)

Briefly discusses different LED product types and their performance relative to downlights utilizing traditional lamps. (2 pages, May 2012)

#### [General Service LED Lamps](#)

Compares general service incandescent lamps—i.e., light bulbs—to LED and CFL alternatives (4 pages, April 2012)

### SSL Performance Characteristics

#### [Optical Safety of LEDs](#)

Describes current photobiological safety standards, and specifically reviews the optical safety of LEDs with regard to blue light hazard. (4 pages, June 2013)

#### [Flicker](#)

Discusses flicker metrics, contributing factors, and consequences in addition to comparing the flicker attributes of a sample of conventional and LED sources. (4 pages, March 2013)

#### [Energy Efficiency of LEDs](#)

Characterizes the current state of the market and discusses package efficacy, luminaire efficacy, and application efficacy. (4 pages, March 2013)

#### [SSL Standards and Guidelines](#)

Review of the key performance and safety standards applicable to SSL-based lighting products (2 pages, April 2012)

#### [Understanding LM-79 Reports](#)

Discusses typical content of laboratory reports summarizing LM-79 test results for integrated SSL lamps and luminaires (4 pages, March 2012)

#### [LED Color Characteristics](#)

Reviews the basics of light and color, and discusses a variety of metrics applicable to LEDs for general illumination (4 pages, January 2012)

#### [Light at Night and Human Health](#)

Discussion of potential health implications of light at night (LAN) exposure and how it may affect lighting practice and design (2 pages, January 2010)

