

EnergyWatch



January 2012

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www.energywatchblog.com



*Work like you don't need the money.
Love like you've never been hurt.
Dance like nobody's watching.
Sing like nobody's listening.
Live like it's Heaven on Earth.*

Something to Think About...

In a ceremony at Arlington National Cemetery on Nov 11, 1985, President Ronald W. Reagan said the following: It is, in a way, an odd thing to honor those who died in defense of our country in wars far away. The imagination plays a trick. We see these soldiers in our mind as old and wise. We see them as something like the founding fathers, grave and grey-haired. But most of them were boys when they died. They gave up two lives: the one they were living and the one they would have lived. When they died, they gave up their chance to be husbands and fathers and grandfathers. They gave up their chance to be revered old men. They gave up everything for their country, for us. All we can do is remember. It's not so hard to summon memory, but it's hard to recapture meaning. And the living have a responsibility to remember the conditions that led to the wars in which our heroes died. Perhaps we can start by remembering this: that all of those who died for us and our country were, in one way or another, victims of a peace process that failed; victims of a decision to forget certain things; to forget, for instance, that the surest way to keep a peace going is to stay strong. Weakness, after all, is a temptation—it tempts the pugnacious to assert themselves—but strength is a declaration that cannot be misunderstood. Strength is a condition that declares actions have consequences. Strength is a prudent warning to the belligerent that aggression need not go unanswered.

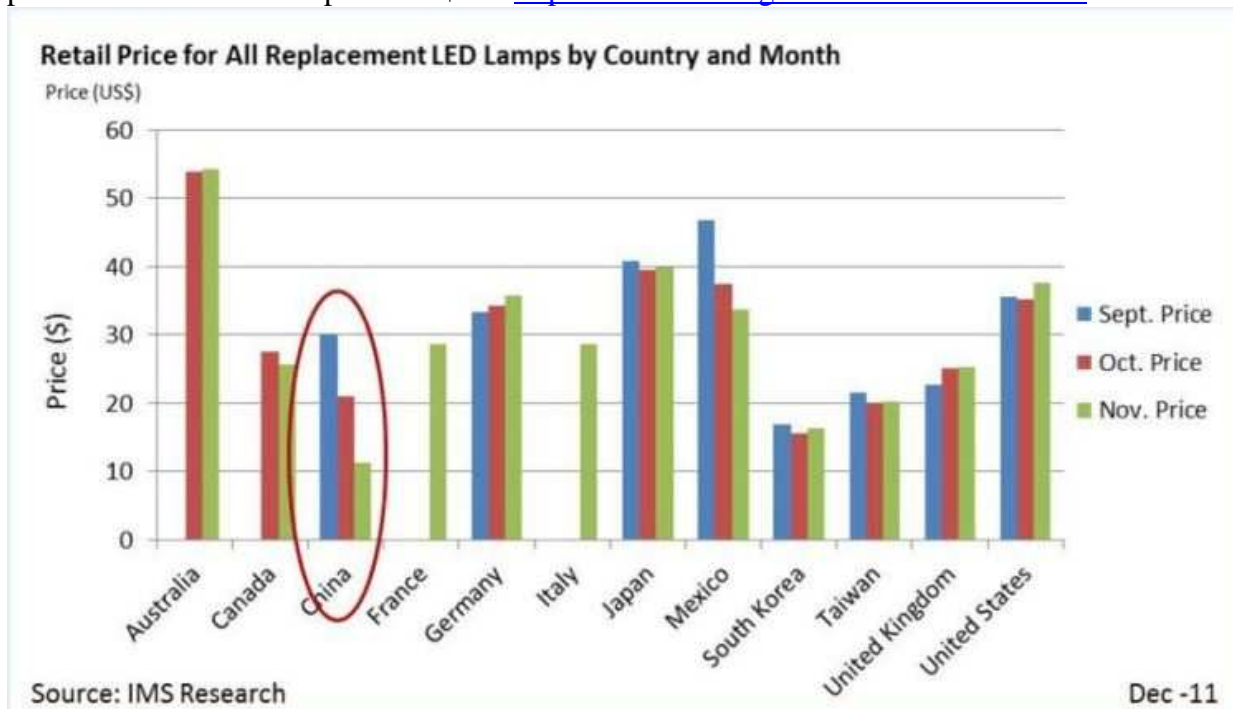


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Our business is changing your future...

National Energy Issues to Watch...

1. **IMS Reports Fastest Discounts on LED Lamps in China** - The latest analysis of [global retail prices for LED lamps](#) and luminaires from IMS Research of Austin, TX, www.imsresearch.com has indicated that the most significant decline in LED lamp prices has occurred in China, with prices falling on average 62% (from \$30 to \$11) from September to November. IMS is tracking the sales of 420 LED lamps in 12 countries. Worldwide, it reported no 100W replacements on the market and only 32 lamps (7%) designed as 60W and 75W incandescent replacements. In South Korea, 26 of the 31 lamps tracked were mislabeled with regard to their wattage equivalency. In Japan, the average price of a 40W LED lamp is over \$30. <http://www.ledsmagazine.com/news/8/12/13>



2. **The 100-Watt Bulb at Death's Door** - General Electric estimates 50 million 100-watt bulbs are in use. GE, which Edison founded, plans to end production of 100-watts for the U.S. market on Dec 31. At midnight, the production line will go dark. 12/28 Tampa Tribune
3. **Light Bulb Standards Remain in Place** - Congress passed a spending bill that will, among other things, defund the enforcement of the EISA light bulb standards for the 2012 fiscal year. While this means that the DOE will have no funding to enforce the standards until October 2012, the standards themselves remain in place. Efficiency standards will remain in place with a January 1, 2012 effective date (effective date refers to date of manufacture, not sales. Retailers can still “sell through” their inventories beyond January 1st). <http://lumennow.org/>
4. **CBS Sunday Morning with Charles Osgood: Let There Be Light 12/18/11** - On the Sunday Morning Cover Story, Lee Cowan reports on the debate between the warm glow of the watt-sucking incandescent and the energy efficient LED. This segment features: Dr. David DiLaura; Ed Crawford; Daniel Blitzer; and Howard Brandston. Watch the video. <http://www.cbsnews.com/video/watch/?id=7392058n&tag=contentMain;contentBody>

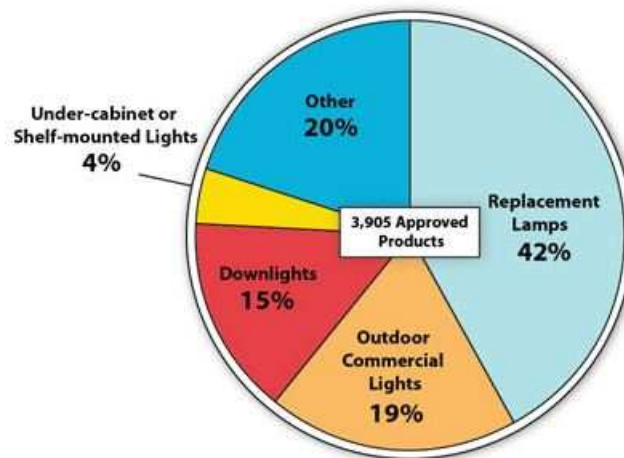


5. ***New Year Ushers in Bright New Era in Lighting*** - Lighting likely accounts for 12% of home energy use, but the growing array of energy-efficient options allows consumers across the country to cut those expenses by \$50 to more than \$100 a year. Many of the new products are already on store shelves in anticipation of the federal standards that begin phasing in on January 1. The LUMEN Coalition, a group of nonprofit organizations, manufacturers, utilities and others committed to educating consumers about their new lighting choices www.LUMENnow.org can help consumers understand their new lighting options and shows them the results of a lighting makeover in a home. 12/29 PRNewswire
6. ***Green Energy to Hit Roadblocks in 2012*** - The signs are very difficult to ignore. On Wall Street; in Washington, DC; in states with Renewable Portfolio Standards; and just about every region of the U.S. where renewable sources of electricity and fuels have made significant inroads since 2006. The next year, and possibly the several years after, renewable energy industries face a combination of fiscal austerity and partisan gridlock that is clamping down on clean energy deployment. Companies in the solar, wind, geothermal, energy storage, biofuels and biomass industries are girding for perhaps the toughest fight of their corporate lives. <http://www.energybiz.com>
7. ***Energy Efficiency Will Drive Utilities in Future*** - Electricity is at the heart of the U.S. energy economy. A report by the Manhattan Institute cites this fascinating statistic: In 1950, 20 percent of the U.S. gross domestic product was directly dependent on electricity. By 2008, that number had tripled to 60 percent. Additionally, the report states that over 85 percent of the U.S. energy growth since 1980 was met by electricity. The United States spends \$1 billion a day on foreign oil, while our electricity is made right here in America. In today's world, energy efficiency must be a part of any energy discussion. <http://energybiz.com/magazine/article/243237/rising-role-electricity>
8. ***Keeping SSL Manufacturing in the United States*** - Although you do not often hear about growth in domestic manufacturing here in the United States, the solid-state lighting industry is steadily growing and establishing a manufacturing presence here at home. Solid-state lighting was not only born of U.S. ingenuity and R&D, but is riding the crest of a worldwide trend toward greater energy efficiency. This offers a golden opportunity for U.S. manufacturing to take a significant role in SSL. See the U.S. DOE white paper which grew out of DOE's 2010 SSL Manufacturing R&D Workshop. http://apps1.eere.energy.gov/buildings/publications/pdfs/ssl/ssl_whitepaper_july2010.pdf
9. ***Energy Efficient Buildings: Global Outlook*** - The market for energy efficiency services and equipment is on the rise as national governments look to reduce energy consumption by improving the efficiency of the building stock. Pike Research predicts the building energy efficiency market will soar more than 50 percent between now and 2017 to \$103.5 billion. This Pike Research report provides data on the size and growth of energy efficient building markets, including ESCO revenues, energy efficient HVAC equipment sales, and energy efficient lighting sales from 2011 to 2017, as well as a qualitative description of key drivers and trends in energy efficiency in key markets, focusing on the commercial building sector. <http://www.pikeresearch.com/research/energy-efficient-buildings-global-outlook>
10. ***Next Generation Luminaires Design Competition Deadline Extended to January 13 by Craig DiLouie*** - The deadline for "Intents to Submit" for the 2012 Next Generation Luminaires Indoor Design Competition has been extended. Written Intents to Submit are now due by **January 13, 2012**, and must be submitted online at www.nglhc.org



11. OLED Displays and Lighting Market to 2020 - GBI Research, a leading business intelligence provider, has released its latest research, "OLED Displays and Lighting Market to 2020 - Technological Innovations Lead to Cost Efficient Products and New Aesthetics". The report gives an in-depth analysis of the global Organic Light Emitting Diodes (OLED) market for displays and lighting, covering four major regions - North America (USA and Canada), Europe, Asia-Pacific. The report covers market revenue forecasts for the OLED market (Displays and Lighting) from 2005-2020. It also provides market revenues breakdown for displays by application types; Cell Phones, Televisions, IT Monitors and Others and technology type; Passive Matrix Organic Light Emitting Diode (PMOLED) Displays and Active Matrix Organic Light Emitting Diode (AMOLED) Display. For OLED lighting segment, the report provides covers market revenue forecasts from 2010-2020. http://www.researchandmarkets.com/product/c60711/oled_displays_and_lighting_market_to_2020_t

12. More Than 3,900 Products Now Registered with Lighting Facts by Craig DiLouie - There are now more than 3,900 products registered with Lighting Facts, along with more than 300 manufacturers. The Lighting Facts label provides an at-a-glance view of an LED product's basic performance attributes as measured according to the LM79 standard. <http://www.lightnowblog.com/>



13. LEDs to Help Decrease Market Size by Joe Salimando - Pike Research forecasts that LED share will reach 52% of the commercial lighting market by 2021. The cleantech market intelligence firm anticipates that LED lighting costs for various SSL products will be reduced by 80% to 90% in many cases during the next decade. Pike Research forecasts that the global market for commercial lighting will reach \$42 billion in 2011 and see a peak of nearly \$54 billion in 2012 before gradually declining to about \$30 billion by 2021. The decline will be due to the extended lamp life of both fluorescents and LEDs as they become the primary lamp types, increasingly displacing demand for replacements for less efficient and shorter-lived incandescent lamps. This forecast is for a GLOBAL DEPRESSION in the Lighting industry — a 9-year drop of 44%. <http://electricalcontractor.com>

14. Consumer Reports Spotlights the Best CFL and LED Replacement Lamps - The days of the ubiquitous incandescent A19 are coming to an end, and recent tests from *Consumer Reports* showcase more than 30 different integrated compact fluorescents and LEDs for indoor and outdoor spaces. *Consumer Reports'* comprehensive report on CFL and LED replacement lamps reveals that many problems of the earlier versions have been overcome and that these new efficient lamps last longer and use far less electricity than the traditional incandescents. Shoppers now have a variety of different products to match their needs. <http://lighting.com/consumer-reports-test-cfl-led/>

- 15. “LED Lamp Locator” Industry Portal Is Enhanced with New, Easy-to-Use Comparison Tool -** Lighting Internet Technology Enterprises (LITE) has just enhanced its web-based LED Lamp Locator www.LedLampLocator.com. It is designed to assist professional lighting users in searching, evaluating, comparing, and specifying the market’s broad range of LED replacement lamps. Allowing users to select and evaluate LED lamps from among multiple manufacturers across a standard and consistent platform, the LED Lamp Locator’s simple new tool further enhances the ease with which comparisons between the market’s broad range of LED lamp products can be made and the optimal product selected for the application at hand.
- 16. Will 2012 Be the End of the World for Renewable Energy? -** As the year comes to a close so do two federal tax incentives the solar and wind energy industries have relied on to power their breakneck growth of recent years. Green energy executives and their respective trade groups warn that the expiration of the incentive tax credit – used primarily by solar – and the production tax credit for wind will cost tens of thousands of jobs and slow the nation’s transition to carbon-free power. At the 11th hour or later, Congress invariably extends the tax incentives once again. In the midst of a presidential election year with Republicans riding the bankruptcy of solar panel maker Solyndra to slam the Obama administration’s green energy policies, Congress may well let the tax breaks die. <http://www.forbes.com/sites/toddwoody/2011/12/13/will-2012-be-the-end-of-the-world-for-renewable-energy/>
- 17. New ENERGY STAR Qualified Light Bulbs Product List -** The U.S. EPA would like to inform partners and stakeholders of a new, consolidated [ENERGY STAR qualified light bulb list](#). This new list includes products qualified to the CFL V4.2 specification, the Integral LED Lamps V1.4 specification and self-ballasted fluorescent GU24 lamps qualified under the Residential Light Fixture V4.2 specification. The combination of all qualified light bulbs into one list provides a more useful tool for consumers and partners to easily identify all the bulbs that are currently ENERGY STAR qualified. The excel version allows for sorting of data by any of the parameters (i.e. technology, model type, base type, color temperature) using the drop down arrow menus for each of the column headings. This new list will be updated at the beginning and middle of each month and can be accessed at www.energystar.gov/lightbulbs
- 18. Model Lighting Ordinance -** The Model Lighting Ordinance (MLO), produced jointly by the Illuminating Engineering Society (IES) and the International Dark-Sky Association (IDA), provides a template for municipalities seeking to develop standards for responsible outdoor lighting. Specifically, the MLO addresses skyglow, or light emitted up into the sky that obscures nighttime viewing of stars; light trespass, or light emitted onto neighboring property; and glare, or excessive brightness that impairs or disables vision. Download a free copy: http://www.ies.org/PDF/MLO/MLO_FINAL_June2011.pdf
- 19. NEMA Publishes ANSI C136.37 for Solid State Light Sources Used in Roadway and Area Lighting -** The first solid state lighting (SSL) standard produced by ANSI accredited standards committee C136.37, this standard defines interchangeability and some requirements for SSL source fixtures. References to existing regional and international SSL standards are used to recommend guidance to utilities and manufacturers for harmonized solutions and expectations. C136.37 includes requirements for operating temperature, correlated color temperature, mounting provisions, dimming, ingress protection, and wiring and grounding. In addition, C136.37 sets protocol for surge-test waveforms, the basic insulation test, and specific product ratings. <http://www.nema.org/stds/C136-37.cfm>



20. Commerce Department Unveils Stronger-Than-Expected Starts Data - The Commerce Department's residential construction report released Tuesday morning showed housing starts at a seasonally adjusted annual rate of 685,000 -- that's 9.3% higher than the revised October estimate of 627,000 (revised from a previously released figure of 628,000). It's also the highest level of starts since April 2010. Compared with last year's near-record low, total housing starts were up 24.3%. Single-family housing starts were up a modest 2.3%, coming in at a pace of 447,000, according to the government figures. 12/20 HCN

21. Existing-Home Sales Increase 4.0% - Existing-home sales rose again in November and remain above a year ago, according to the National Association of Realtors (NAR). The November figure came in at a seasonally adjusted annual rate of 4.42 million, up 4.0% from October's pace, and up 12.2% from November 2010. 12/22 HCN

22. Consumer Sentiment Keeps Rising - An index of consumer sentiment rose for the fourth month in a row, gaining 5.8 points and reaching its highest level since last June. The Reuters/University of Michigan Consumer Sentiment Index hit 69.9 points in December, and researchers pointed to falling gasoline prices, mildly better employment prospects, an uptick in the stock market and real income growth. IHS Global Insight is forecasting holiday retail sales to rise slightly less than 5.0% above last year's sales of approximately \$453 billion. 12/22 HCN

23. DOE Consortium Publishes Guidelines for Converting to LED Roadway Lighting - The U.S. DOE's Energy's Municipal Solid-State Street Lighting Consortium recently published guidelines for converting to LED roadway lighting. The Model Specification for LED Roadway Luminaires is for cities, utilities, and other local agencies interested in saving money and energy by switching from traditional lighting technologies to solid-state lighting (SSL), which uses LEDs instead of filaments or gases. The estimated 35 million streetlights in the U.S. consume as much electricity each year as 3.9 million households, and generate greenhouse gas emissions equal to that produced by 8 million cars. <http://www.lightnowblog.com/2011/12/doe-consortium-publishes-guidelines-for-converting-to-led-roadway-lighting/>

APPENDIX A APPLICATION-BASED SYSTEM SPECIFICATION LUMINAIRE TYPE "A"		
SITE PARAMETERS		
ROADWAY DATA:	Lane width	13.5 ft
	Number of lanes, total on both sides of median	2
	Shoulder width, driveline to edge of pavement	4 ft
	Median width	0 ft
	IES pavement class.	<input type="checkbox"/> R1 <input type="checkbox"/> R2 <input checked="" type="checkbox"/> R3 <input type="checkbox"/> R4
	Posted speed limit	<input type="checkbox"/> ≤ 25 mph <input checked="" type="checkbox"/> > 25 mph
SIDEWALK DATA:	Sidewalk width	5 ft
	Edge of sidewalk to edge of roadway pavement	6 ft
LIGHT POLE DATA:	Luminaire mounting height	27 ft
	Arm length, horizontal	6 ft
	Luminaires per pole	1
	Pole set-back from edge of pavement	2 ft
	In-line pole spacing (one pole cycle)	150 ft

24. Addressable Dimming Controls Help Buildings Achieve LEED Points by Encelium - White Paper available at: <http://www.encelium.com/en/case-studies.html>; [Download Word document](#)



- 25. Webinar: The L Prize-Winning LED A19 Replacement - What Commercial Building Owners/Operators Can Expect in 2012** - On January 18, 2012, the U.S. DOE will host a 60-minute live webinar presenting an update on the status of LED A19 lamp options for commercial businesses, with an overview of DOE's L Prize competition and the rigorous lab, lifetime, and field testing that went into selection of the Philips Lighting winning lamp. The webinar will begin promptly at 1:00 p.m. ET and will include a 40-minute presentation followed by a 20-minute question-and-answer session with attendees. To learn more or to participate, [register now](#).
- 26. CBs Certified Nearly 2,400 Lighting Products in 2011** - The new third party certification process is taking off. EPA-recognized Certification Bodies (CBs) certified bulbs from over 100 manufacturers and luminaires from 85 manufacturers. After a fast and busy first year of transition, recognized bodies are ramping up and expanding testing and certification capacity to reduce time to qualification. The Certified Subcomponent Database (CSD) has recently been updated and includes many more options for luminaire manufacturers. Find the report at www.energystar.gov/lightingresources
- 27. ENERGY STAR Qualified Lighting Simplified: Now Only Two Lists** - Instead of five separate lists we will now have two, one for bulbs and one for fixtures. The ENERGY STAR qualified products list (QPL) for light fixtures at www.energystar.gov/lightfixtures is a one stop shop for all qualified light fixtures. Similarly, we now have one QPL for lamps combining CFLs, GU24 lamps and LED lamps. The new Lamps QPL is available at www.energystar.gov/lightbulbs
- 28. ENERGY STAR Website Shortcuts** –
www.energystar.gov/lighting
www.energystar.gov/luminaires
www.energystar.gov/lamps
www.energystar.gov/3rdpartycert
www.energystar.gov/lightinglabs
www.energystar.gov/faqs
www.energystar.gov/lightingresources
www.energystar.gov/dime Database for Incentives and Joint Marketing Exchange
- 29. Govt to Spur Deregulation of Power Industry** - The US government will study four proposals for reform to change the current system in which power generation and transmission are undertaken in a package by utilities. The proposals include forcing utilities to separate their power supply and power generation businesses, as well as separating the accounting for their power transmission from that of their generation business. Through this separation and other deregulatory measures, the government aims to create a fairer platform for new participants in the industry. The government will also study a plan to enable businesses to supply power beyond the borders of their allocated areas of service. Another proposal will examine whether to deregulate retail prices of power to businesses and households. 12/27 The Yomiuri Shimibun
- 30. Despite Delay, the 100-Watt Bulb Is on Its Way Out** - At Home Depot, which like other leading retailers has developed a house line of energy-saving lights, 60 percent of sales are standard incandescents, 25 percent are CFLs, 10 percent are halogen incandescents (which meet the new efficiency standards) and 5 percent are LEDs., according to Jean Niemi, a company spokeswoman. 12/16 NY Times



- 31. GE Lighting's Sylvester Says LEDs May Be 80% of Market by 2020** - General Electric Co. expects most light bulbs to be replaced within a decade by light-emitting diodes that can last from a child's birth through college. Maryrose Sylvester said in an interview in New York, "By 2020, about 70 to 80 percent of the general lighting market is going to be enabled by LEDs." Siemens AG's Osram unit and Royal Philips NA, GE's traditional rivals, have both predicted similar growth rates as new regulations combine with declining LED prices to make the lighting systems more attractive to individual and commercial buyers. Munich-based Siemens is expecting the market to grow to \$13 billion by 2013 and rise another 44 percent by 2016. Philips, based in Amsterdam, predicted in September that 45 percent of the market will be LED-based by 2015. 12/20 Bloomberg
- 32. Lutron White Paper by Michael Jouaneh - Commercial Building Energy Code Requirements for Light Control** - The nation's top building energy codes and standards reflect the importance of using lighting controls to conserve energy. In the ANSI/ASHRAE/IES Standard 90.1 – 2010, for example, there are mandatory requirements for area controls, automatic lighting shutoff, bi-level lighting, daylight harvesting, exterior lighting control, parking garage lighting control, and stairwell lighting control. Additionally, the designer must ensure that all lighting controls are functionally tested. On October 19, 2011, the DOE issued a ruling that requires all states to certify that they have updated the provisions of their commercial building code regarding energy efficiency to meet or exceed ASHRAE 90.1-2010 by Oct. 18, 2013. It's expected that these lighting control requirements will be in place for most states for all new construction and major renovations of commercial buildings. http://www.lutron.com/TechnicalDocumentLibrary/3672234_codes%20and%20controls%20whitepaper_sg.pdf
- 33. Amerlux Launches Smart LED Platform** - "We are proud to unveil a wireless network and multimedia platform that fully integrates performance-based lighting designed to yield significant energy savings, as well as enhance public safety, security and communications," said Amerlux chairman and founder Frank Diassi. The lighting elements of SmartSite are similar to other network-enabled luminaires. A city or utility can dim lights to save money and remotely monitor the operational status of lights to save on maintenance. The multimedia element presumably will help municipalities fund SSL street-light conversions. <http://www.ledsmagazine.com/news/8/12/12>
- 34. Lighting Options Expand at Lowe's** - Lowe's has added two new brands to its bulb assortment:
- Samsung Electronics will release its first LED lighting solutions for the U.S. consumer market through Lowes.com and at select Lowe's home improvement retail stores nationwide. The bulbs include A19, PAR20/30/38 and MR16 bulbs.
 - Vu1 Corp. will introduce its R30 Electron Stimulated Luminescence (ESL) light bulbs to the U.S. consumer market through Lowe's. New York-based Vu1 will sell the bulbs at Lowe's 1,725 retail stores beginning in February and on Lowes.com starting Dec. 1. The ESL R30 reflector bulbs are a direct replacement for the 65-watt incandescent flood bulbs and will retail for approximately \$14.98. 12/9 HCN
- 35. Seoul Semiconductor and Philips Enter into Cross-License Agreement** - Seoul Semiconductor Co., Ltd., the Korea-based LED manufacturer, has announced that it has settled its LED patent dispute with Royal Philips Electronics. The two companies have agreed to enter into a cross-license agreement covering patents relating to specific LED technology areas. Under this arrangement, each party gains access to a substantial part of the other party's patent portfolios. <http://www.ledsmagazine.com/news/8/12/4>



36. Philips Calls for Global SSL Deployment at UN Climate Change Conference - Philips called for a worldwide switch to LED lighting at the UN Climate Change Conference in Durban. The company is stating that a tipping point has been reached in the development of LED lighting that can now be used for general high-quality lighting in almost all applications <http://lighting.com/philips-calls-for-global-ssl/>

37. Cree Licenses Pioneering Remote Phosphor Patents - Cree, Inc. announces it has granted five LED lighting manufacturers licenses (Aurora Energie Corp., Horner APG, Ledzworld Technology, Vexica Technology, and WyndSOR Lighting, LLC.) to select Cree patents through its recently launched remote phosphor licensing program. By making fundamental remote phosphor patents available through license, Cree is further enabling LED lighting adoption, as Cree innovations facilitate the development of LED lights combining remote phosphor optical elements with blue LEDs. Cree is currently in discussions with other companies to license the remote phosphor patents and aims to sign additional licensing agreements in the coming months.
<http://finance.yahoo.com/news/Cree-Licenses-Pioneering-bw-126671934.html?x=0>

38. India LED Lighting Market to Enjoy Rapid Growth - LED lighting is considered the key emerging lighting segment in the Indian market, driven by the move towards energy efficiency. Local issues include those of energy deficiency in remote rural regions and strong interest in energy sustainability. According to Frost & Sullivan Research, the [LED lighting market in India](#) was \$73.3 million in 2010 and is forecast to grow at a CAGR 45.53% through 2014. The anticipated market growth will be mainly due to street lighting and railway lighting applications, which could account for over 60% of total demand next year. <http://www.ledsmagazine.com/news/8/12/13>

39. Top 20 LEDs Magazine News Stories of 2011 - <http://www.ledsmagazine.com/news/8/12/22>

1. [Cree delivers LED alternative to linear fluorescent fixtures](#)
2. [McKinsey releases lighting market report](#)
3. [Lighting Science Group enters L Prize with 60W-equivalent LED lamp](#)
4. [LED market grew by 93% in 2010, driven by backlights](#)
5. [Strategies Unlimited forecasts LED revenue growth of nearly 10% in 2011](#)
6. [Switch Lighting announces unique LED replacement lamps](#)
7. [Ambergreat introduces Amberstar 252W, 25312-lm LED street light](#)
8. [Philips installs LED lights along 7-km length of highway](#)
9. [GE plans to submit 60W-equivalent LED lamp for DOE's L Prize](#)
10. [Zhihai releases new multi-function LED light up to 1000W HID retrofit](#)
11. [Financial results: Philips, Cree, SemiLEDs](#)
12. [LSG plans intelligent LED lamp for Android @ Home](#)
13. [Lasers could offer alternative to LED light sources](#)
14. [A-lamp LED products highlighted at Lightfair](#)
15. [Cree XLamp MT-G LED targets MR16 halogen retrofits](#)
16. [LED highway lighting project in China features a million Cree LEDs](#)
17. [DOE announces that Philips has won the 60W-replacement-lamp L Prize](#)
18. [California implements new light-bulb laws](#)
19. [Nichia appoints Lumitronix as its first-ever LED distributor](#)
20. [Fire hazard causes recall for Eco-Story LED lamps](#)





40. The 2011 IES Progress Report Finds Its Way into Print in the January Issue of LD+ A

41. Energy Independence by Jim Hartung - The US consumed approximately 7 billion barrels of liquid fuels in 2010. Of this, over 4 billion barrels were produced in the US or imported from Canada. The remainder (less than 3 billion barrels) was imported from other countries. Oil imports from countries other than Canada could be reduced to near-zero in the next 25 years. This can be achieved as follows: 1) increase US oil production by 1 billion barrels per year, 2) increase oil imports from Canada by 1 billion barrels per year, and 3) decrease US oil consumption by 1 billion barrels per year through improved efficiency and use of alternative fuels. This will make the US and Canada essentially energy-independent -- and provide a solid foundation for sustainable economic growth for many decades, while alternative energy resources and technologies are developed.

<http://www.energypulse.net>

42. Ford Says It Will Break 100-Mpg Barrier - Ford Motor Co. said it would offer U.S. consumers in select markets a five-passenger vehicle rated at 100 miles per gallon in 2012. The 2012 Ford Focus Electric is one of a battery of fuel-thrifty cars in development at Ford. Ford is planning to launch the Focus in California and the metropolitan New York areas in 2012 and then add 15 markets across the country before the end of the year, as long as supplies are available. 12/14 UPI

43. GLOBALCON 2012 - To feature a multi-track conference program, free expo and exhibit hall workshops, and networking opportunities <http://www.globalconevent.com/registration/>



44. 2012 DOE Solid-State Lighting R&D Workshop Atlanta, GA January 31–February 2, 2012 - The 2012 DOE SSL R&D workshop will be held at the Hyatt Regency Atlanta. The nation's top researchers and lighting industry leaders meet to explore the science challenges and technology hurdles of LED and OLED that must be addressed for SSL to succeed.

http://www1.eere.energy.gov/buildings/ssl/atlanta2012_reginfo.html

45. IES Philadelphia: January 12, 2012 Lunch Seminar OLED Technology, Applications, and Potential for the Future - Join the IES Philadelphia Chapter for an informative presentation on OLED technology and principals by Dr. Diekmann of Osram. Find out the strengths and weaknesses of this new technology and a look into where this will lead us in the future.

<https://events.r20.constantcontact.com/register/eventReg?llr=c5xtm6cab&oeidk=a07e5h1fbexf428e2e1&oseq=a00lfxizp7vj>

46. LEDucation 6 Opens Registration & Announces Speaker Line Up - The Designers Lighting Forum of New York (DLFNY) announces its speaker line up and also notify attendees that event registration for “LEDucation 6” is now officially open and will take place in New York City on Wednesday, March 21, 2012. <http://www.leducation.org>



State Energy Issues to Watch...

- 47. *A Master Plan for N.J.'s Energy Needs*** - The plan is not binding, but sets forth the Republican governor's vision of how the state will meet its electricity needs over the next decade. It scales back New Jersey's goals for renewable energy, calling for 22.5 percent of electricity to be generated from such sources by 2021, down from the previous administration's goal of 30 percent. The state has set an overall goal of meeting 70 percent of its electricity needs with clean energy sources, but it defines such sources not just as renewables but also nuclear power, natural gas and hydroelectric plants. <http://green.blogs.nytimes.com/>
- 48. *CSA LED Lighting Lab Opens in Atlanta*** - To address the growing demand for energy-efficient lighting products and new 2012 lighting standards, CSA has unveiled a new 30,000 square-foot testing facility in Atlanta, Georgia. The laboratory provides testing and certification of LED and lighting products to more than 75 different standards as well as required third-party ENERGY STAR testing. <http://lighting.com/csa-led-lighting-lab-atlanta/>
- 49. *Stimulus Funding for Georgia Convenience Stores Lighting Retrofit Project*** - The Georgia Association of Convenience Stores (GACS) lighting retrofit fund has retrofitted more than 30 convenience store locations across the state. The group is one of four programs receiving financing from the Georgia Environmental Facilities Authority (GEFA) division of Energy Resources, the DOE Energy Efficiency & Renewable Energy. The GACS made lighting retrofits, including T12 to T8 interior lighting conversions, the replacement of cooler door lighting with LED lights, and the retrofitting of outdoor canopy lighting. <http://www.environmentalleader.com>
- 50. *Commissioners Move Forward on Downtown Lighting*** - Salina city commissioners agreed to move forward with an audit to determine whether a proposed project to spend \$1.198 million replace almost 300 downtown lights with LED lights would save the city money. The project is a collaborative effort between Philips Lighting and Johnson Controls, of Kansas City. Preliminary estimates projected that savings over the current lights would pay for the new lighting in 23 years. 12/6 The Salina Journal
- 51. *Washington's Puget Sound Energy Offers Instant Rebates on LED Lamps*** - Puget Sound Energy has introduced an instant rebate that provides up to \$10 off the purchase of LED lamps to residential customers. The rebates are good for the purchase of a variety of Energy-Star-qualified LED lamps. Depending on the bulb type, after-rebate price varies between \$15 and \$50. Customers can purchase the lamps at participating retailers including Costco, Lowe's and The Home Depot. PSE is also hosting an online survey for bulb purchasers at <http://www.PSE.com/LEDsurvey> <http://www.ledsmagazine.com/news/8/12/11>
- 52. *California Releases Clean Car Plan: 1.4 Million by 2025*** - CA released its plan for putting 1.4 million electric, plug-in hybrid and hydrogen-powered cars on its roads by 2025, that's one in seven cars. New global warming standards for model years 2017-2025 would reduce vehicle emissions by about half of current levels and 34% below 2016 requirements. The standards are being coordinated with federal agencies to establish a single set of global warming pollution and fuel efficiency requirements for automakers. <http://www.sustainablebusiness.com/index.cfm/go/news.display/id/23232>



Monthly Special Feature... *LED Lighting to Capture 52% of the Commercial Building Market by 2021, According to Pike Research* - November 22, 2011 BUSINESS WIRE

Light-emitting diodes (LEDs) are gaining significant momentum as an alternative to incandescent and fluorescent lighting in commercial buildings, particularly as the cost of LED lighting technology continues its rapid decline. While the market share of LED solid-state lighting (SSL) is currently quite low, a new report from Pike Research forecasts that LED share will reach 52% of the commercial lighting market by 2021. The cleantech market intelligence firm anticipates that LED lighting costs for various SSL products will be reduced by 80% to 90% in many cases during the next decade.

"LEDs represent perhaps the most significant breakthrough of the last 130 years in lighting technology," says research analyst Eric Bloom. "The production of white LEDs, which began in the late 1990s, is starting to transform the lighting industry, and the transition to this new technology is likely to occur very quickly. Rapidly-evolving technologies, such as semiconductors and software, are finding their way into the lighting market, catapulting this traditional, historically slow-moving industry into a new era of high technology."

Bloom adds that incandescent and less efficient T12 and T8 fluorescent lamps will be almost completely eliminated over the next 10 years. To take more than 50% of the market, LEDs will take share from compact fluorescent lamps (CFLs), high-intensity discharge (HID) lighting, and general linear fluorescents.

Pike Research forecasts that the global market for commercial lighting will reach \$42 billion in 2011 and see a peak of nearly \$54 billion in 2012 before gradually declining to about \$30 billion by 2021. The decline will be due to the extended lamp life of both fluorescents and LEDs as they become the primary lamp types, increasingly displacing demand for replacements for less efficient and shorter-lived incandescent lamps.

Pike Research's report, "Energy Efficient Lighting for Commercial Markets", describes the key factors that are influencing the market for energy efficient lighting around the world: trends in energy codes, rebate and subsidy programs, sustainability/green certifications, raw material supply issues, geopolitical influences in developing and developed nations, and more. The report describes the influence of industry structure, key applications, and the many technology issues involved in the decision to specify various lighting technologies. Comprehensive unit and dollar forecasts are presented through 2021, segmented by application, lamp type/LED, luminaires, and geographic region.

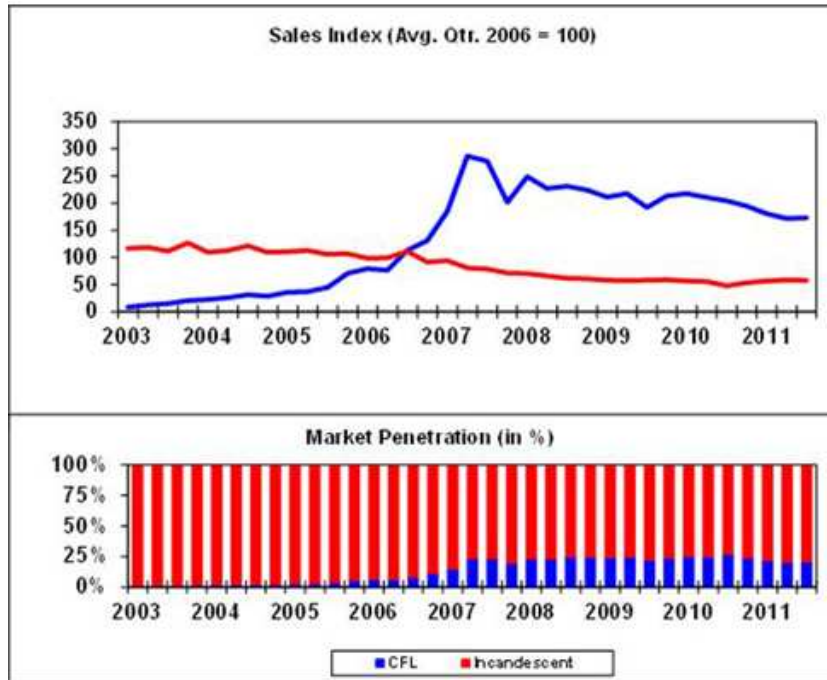
Pike Research is a market research and consulting firm that provides in-depth analysis of global clean technology markets. An Executive Summary of the report is available for free download on the firm's website.

<http://www.pikeresearch.com/research/energy-efficient-lighting-for-commercial-markets>



Monthly Special Feature... <http://www.nema.org/media/pr/20111221a.cfm>

Incandescent Lamp “Share” At 79.4% - NEMA’s recent quarterly report on the sale of lamps put the incandescent share in Q3/11 at 79.4% and CFLs at 20.6%. Sales of incandescents, some of which won’t be legally sellable after Jan. 1, 2012, were up 21.5% compared with Q3/10. *See graphic below:*



T12 Lamps Still Have 30% Share - According to NEMA’s Q3/11 report on linear fluorescent lamp shipments, “Market shares for each lamp type have remained stable over the previous year. Shares of T5, T8, and T12 lamps were unchanged at 7.6, 62.4, and 30.0 percent, respectively, during Q3 2011.” T12 shipments were up 0.9% in Q3, the lowest gain of the lamp types. *See graphic below:*

