

\$20.6 MILLION ASSIGNED FOR SOLID-STATE LIGHTING RESEARCH

Efficiency is on the fast track as industry and the government work toward advancements that yield better illumination. The U.S. Department of Energy (DOE) is providing up to \$20.6 million for 13 projects devoted to LED and OLED lighting, and with contributions that total reaches \$27.8 million.

"The Department is eager to advance and accelerate research and development in this cutting-edge technology because solid-state lighting (SSL) has the potential to more than double the efficiency of lighting systems, significantly reduce our carbon footprint, and transform the built environment," notes Alexander Karsner, DOE assistant secretary for Energy Efficiency and Renewable Energy.

A continuation of the DOE's public-private partnerships, the projects represent the fourth round in a series of funding opportunities and include both core technology and product development. Among those receiving funds in the latter category, **Creed**® Inc. will receive up to \$1,995,988 to develop efficient white SSL components for general illumination. **GE Lumination** together with the University of Maryland will obtain up to \$2,164,530 to create a solid-state replacement downlight with unique cooling devices.

Osram Sylvania Development will collect up to \$873,525 to make high-quality downlight luminaires with minimal thermal, optical, and electronic losses and an output of 1,300 lumens. **Philips Lumileds Lighting**, LLC is receiving \$2,653,000 for the development of a warm white LED that has an efficiency of 135 lumens per watt while generating 1,051 lumens of warm white light in a color temperature range between 2800K and 3500K and a CRI greater than 90.

Universal Display Corp. will obtain up to \$1,905,467 to build a high-efficiency OLED luminaire as part of an integrated ceiling illumination system. Its team members include Armstrong World Industries plus the Universities of Michigan and Southern California.

CUSTOM GAS/ELECTRIC LANTERN COMPANY GROWS

Bevolo Gas and Electric Lights, a domestic manufacturer of hand-crafted copper gas and electric fixtures headquartered in New Orleans' French Quarter district plans to relocate to a new 25,000-sq.-ft. facility in the community's Northshore area. The Louisiana city's *Times-Picayune* newspaper reported that in the aftermath of Hurricane Katrina, the company moved its production facility near Covington for its 20 craftsmen.

This spring, Bevolo launched its first retail store in Mandeville. For more information on the company's custom capabilities, visit Bevolo.com.

ACUITY BRANDS LIGHTING PARTNERS WITH LIGHTING SCIENCE GROUP ON LEDS

Atlanta-based Acuity Brands Lighting Inc. (ABL), a wholly owned subsidiary of Acuity Brands, has entered into a strategic alliance with Lighting Science Group Corp. (LSG), headquartered in Dallas, to develop and launch multiple LED lighting products that will be part of ABL's portfolio, including Lithonia Lighting®, Holophane®, Hydrel®, and Gotham®.

ABL and LSG will jointly develop selected new products for architectural, commercial, industrial, and public infrastructure use. This alliance pairs the channel strength, product innovation, delivery capabilities, and brand recognition of ABL with the LED technology know-how, speed of innovation, and rapid design capabilities of LSG.

"This alliance with Lighting Science Group allows Acuity Brands Lighting to enhance its existing LED portfolio using advanced technology," says Vernon J. Nagel, chairman, president, and CEO of Acuity Brands. "We continue to seek out strong alliances to accelerate our ability to integrate advanced technologies, such as LED, into leading-edge fixture design to serve specific customer needs. LSG's patented technology, experienced management team and expertise in thermal management, driver design, and color control will give us a broader product offering for the growing LED market."

PHILIPS LIGHTING CHOOSES ECHELON TECHNOLOGY FOR NEW GENERATION OF STREET LIGHTING

Somerset, N.J.-based Philips Lighting has built its new Starsense street light telemanagement system using San Jose, Calif.-based Echelon's LonWorks® platform.

Philips's Starsense solution uses Echelon's power line communications technology in each streetlight in its new OLC (Outdoor Luminaire Controller). Data from the streetlights is collected by the Starsense Segment Controller, which then manages the streetlights and communicates with the city's monitoring center equipped with Starsense Supervisor Web portal software (powered by Streetlight.Vision). The software aggregates millions of data from the streetlights and other devices and provides the end user with a comprehensive package of Web management applications, including energy consumption analysis, automatic failure identification, preventive maintenance, and remote testing and monitoring of streetlights on city maps.

"We are pleased that Philips has built its new energy-saving streetlight solution using our LonWorks products and platform," says Anders Axelsson, Echelon's senior vp/sales & marketing. "By adopting LonWorks-based smart street lighting solutions, cities worldwide could save millions of tons of CO2 emissions annually. As energy costs continue to rise and as cities look for ways to take action to both curb their costs and reduce their carbon emissions, we believe products like the new Starsense system will play an important and growing role."

RENAISSANCE LIGHTING INKS DEALS WITH LED PROVIDERS

Herndon, Va.-based Renaissance Lighting and Burlington, Mass.-based **Philips Solid-State Lighting Solutions** (formed by Philips' acquisition of Color Kinetics) have completed a licensing agreement that provides the former with access to the latter's patent portfolio. The contract enables Renaissance to sell its own intelligent LED lighting products as well as to use Philips Solid-State Lighting Solutions' core technology in other new product development.

The global license agreement ends litigation previously brought by Color Kinetics against Renaissance Lighting and will apply in all markets covered by Philips Solid-State Lighting Solutions' patent portfolio.

"The lighting industry is undergoing dramatic change as LED sources influence the design of completely new products and applications, particularly when combined with digital intelligence," says Bill Sims, CEO of Philips Solid-State Lighting Solutions. "The power of our patented inventions makes it possible to customize environments with light as never before, and we continue to grant access to these inventions in part to help fuel greater adoption. We believe that Renaissance Lighting has a unique approach to color mixing that complements our own core method, and the combination should result in some powerful products."

"This agreement moves Renaissance Lighting another step closer to its goal of becoming an important player in the solid-state lighting space," adds Barry Weinbaum, Renaissance Lighting's CEO. "The realization that we have acquired immediate access to global patents and the markets they represent is a huge reinforcement of our strategy to expand [our] footprint and customer base while rapidly increasing shareholder value. We are being positioned to bring the advantages of LEDs and the dynamic impact they will have on the future of architectural lighting design."

Furthermore, Renaissance recently established a strategic marketing alliance with **Stellatek Solutions, Inc.** and **Network Communication E.T.**, headquartered in the United Arab Emirates. The alliance with Stellatek Solutions – a strategic consultancy and implementation service company that helps firms expand their sales presence in the Middle East, North Africa, and South Asia – will introduce Renaissance Lighting's LED architectural lighting products into the myriad of new construction projects in Dubai, Abu Dhabi, and Qatar.

"We see the United Arab Emirates and Qatar as outstanding markets with a strong government focus on long-range economic planning, based in large part on deployment of energy-efficient technologies like solid-state LED lighting," Weinbaum states.

A•LIGHT REVAMPS WEB SITE

Vista, Calif.-based a•light Corp., a manufacturer of direct and direct/indirect energy-efficient linear luminaires, has tweaked its Internet presence (alights.com) to provide architects, specifiers, corporate clients, developers, and engineers with an interactive method for learning what the company has to offer.

A series of links at the bottom of the page allow visitors to access the latest product information (i.e.



photometric and installation documents) plus locate a sales agent or contact customer support. Additional photo galleries have been included, along with an application matrix, form-fillable PDF submittal sheets, and specification guides.

LIGHTING FIXTURE ORDERS PREDICTED TO RISE

Demand for lighting fixtures in the U.S. is forecast to grow 3.5 percent per annum through 2012 to \$21.6 billion.

Growth in inflation-adjusted terms (2.7 percent per year) represents an improvement relative to the 2002-2007 period. A stronger outlook for construction markets will drive gains, especially the increased construction of housing and transportation infrastructure. Across all markets, demand will increase quickly for advanced products such as HID fixtures and LEDs. These and other trends are presented in *Lighting Fixtures*, a new study from The Freedonia Group, Inc., a Cleveland-based industry research firm.

Imports accounted for more than 40 percent of lighting orders in 2007, and more than 50 percent of those hailed from China. By 2012, imports are projected to account for 45 percent of demand.

The nonbuilding construction market is projected to be the fastest-growing segment through 2012, with an increase approaching six percent. This improvement correlates to the favorable outlook for the construction of highways and streets which, in turn, generates orders for roadway and other outdoor lighting fixtures.

Lighting demand for both residential and commercial buildings is forecast to accelerate marginally through 2012. The larger nonresidential sector will be supported by an increase in new construction. As new housing units recovers through 2012, residential demand for lighting fixtures will return to strong growth, offsetting a deceleration in unit price increases. Published in March, the *Lighting Fixtures* study spans 375 pages and is available for \$4,600 from The Freedonia Group, Inc., 767 Beta Drive, Cleveland, OH 44143-2326. For more information, contact Corinne Gangloff by phone (440) 684-9600, fax (440) 646-0484 or e-mail pr@freedoniagroup.com.

HAMMERTON DOUBLES IN SIZE

According to Utah's *The Enterprise* business journal, architectural lighting manufacturer Hammerton Inc. will be moving to a 48,000-sq.-ft. building in the Salt Lake International Center by the end of August. The new space is twice the size of its present facilities in that city.