

Evident Technologies Receives NYSERDA Funds for High-Efficiency Lighting Products and Demonstrations

Joint effort with the Lighting Research Center at Rensselaer Polytechnic Institute to develop a white-light, light-emitting diode (LED) based lighting system using quantum dots.

Troy, N.Y. – June 17, 2004 - Evident Technologies announced today that it has received funding from the New York State Energy Research and Development Authority-(NYSERDA) to demonstrate and develop efficient white light-emitting diodes (LEDs). This technology promises to produce better color characteristics suitable for general illumination.



Significant energy cost savings and environmental benefits can be gained by replacing incandescent and other low efficiency lighting sources in residential and commercial office buildings with LEDs. In 1998, households in New York State used a total of 7.3 billion kilowatt hours (kWh) for lighting. If households replaced all incandescent lamps used for four or more hours per day with lamps using solid-state light sources, they could save 2.5 billion kWh annually, or 35 percent of all electricity used for residential lighting.

NYSERDA's President, Peter Smith, said: "By investing in high efficiency LEDs for general illumination, we hope to accelerate replacement of inefficient incandescent and halogen lights in New York State, saving residents money on energy bills and protecting the environment by reducing greenhouse gases from fossil fuel electricity generation in New York State."

Dr. Clinton T. Ballinger, CEO of Evident Technologies commented: "Our quantum dot nanomaterials enable the production of white-light LED-based lighting system with significant efficiency improvements over current halogen and incandescent lights. In addition, the light will have better color qualities than current white-light Light Emitting Diodes so they are appealing enough to use in the home or office. Developing a white-light LED-based lighting system using quantum dots will open an entirely new and fast-growing market for Evident Technologies' products."

Dr. Nadarajah Narendran, Director of Research at the Lighting Research Center, commented: "The LRC is committed to the development novel solid-state lighting systems that provide good color and higher efficiency than traditional light sources. Quantum dots offer the potential for creating continuous spectra white light, a desirable feature in many applications. As we improve system efficiency, we will help to ensure their acceptance in the marketplace."

Evident will produce quantum dot nanomaterials, a novel semiconductor particle that have tunable color properties complimenting low cost LED, to produce high quality white light. This quantum dot-based light will have higher efficiency than halogen or incandescent lights. Evident will be collaborating with the Lighting Research Center (LRC) at Rensselaer Polytechnic Institute (RPI) on this effort.

About Evident Technologies:

Evident Technologies is the premier commercial source for nanocrystals otherwise known as quantum dots. These quantum dots are high precision nanoscale semiconductors that are engineered to meet the needs for new nanomaterials in biotechnology, optical transistors, optical switches, optical computing, photovoltaics, light emitting diodes (LED), lasers or many other nano applications. At Evident Technologies, we provide unprecedented freedom to engineer optical, electronic properties for application needs. Call Evident when nature limits your application performance.

About the Lighting Research Center:

The LRC is part of Rensselaer Polytechnic Institute and is the leading university-based research center devoted to lighting, offering the world's only M.S. degree in lighting. Since 1988 the LRC has built an international reputation as a reliable source for objective information about lighting technologies, applications, and products. The LRC also provides training programs for government agencies, utilities, contractors, lighting designers, and other lighting professionals. Visit the LRC web site at www.lrc.rpi.edu.

The LRC's Solid-State Lighting Program conducts research and educational programs to enhance this technology and help it gain acceptance for general illumination purposes. The LRC's multidisciplinary team researches how lighting systems interact; how people perceive and react to lighting conditions; how to use LEDs to replace less efficient lighting; education and training for professionals; and the ASSIST Program, a collaborative effort by researchers, manufacturers, utilities, and government to facilitate broad adoption of LED technology. Visit the LRC's Solid-State web site at www.lrc.rpi.edu.

About Nysesda:

The New York State Energy Research and Development Authority is a public benefit corporation created in 1975 by the New York State Legislature. NYSERDA has successfully developed and brought into use more than 140 innovative, energy-efficient, and environmentally beneficial products, processes, and services. NYSERDA also administers the **New York Energy \$martSM** program, which assists the State's businesses and consumers in implementing energy efficiency measures.

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