

# Next Generation Lighting Industry Alliance

## *Alliance Members*

3M • Acuity Brands Lighting • Applied Materials, Inc. • CAO Group Inc.  
Corning, Inc. • Cree Inc. • Eastman Kodak Company • GE-Lumination  
Light Prescriptions Innovators, LLC (LPI, LLC) • LSI Industries • OSRAM Sylvania Inc.  
Philips Solid-State Lighting Solutions • QuNano, Inc. • Ruud Lighting, Inc.

## **FACTS ABOUT THE SOLID STATE LIGHTING INDUSTRY**

The Next Generation Lighting Industry Alliance was formed in 2003 to foster a government-industry partnership to accelerate the technical foundation as well as the commercialization of solid state lighting (SSL) systems. NGLIA is the designated industry partner for the U.S. Department of Energy (DOE)'s solid state lighting programs.

- In 2009, the U.S. domestic market for lamps (light bulbs), ballasts, lighting fixtures and lighting controls is \$15 billion. Globally, this market is about \$75 billion.
- Today, over 20 percent of U.S. electrical energy is used for lighting.

As the U.S. and the world look for ways to reduce energy use and associated emissions, lighting is a key field for energy efficiency improvements now and will be into the future. SSL technologies, which use light-emitting diodes (LEDs), hold the potential to save 348 trillion kilowatt-hours of electricity by 2030 versus the incumbent technologies of incandescent and fluorescent lighting.

LEDs represent a small but fast growing segment of the lighting market. LED-based illumination is taking hold in a large number of applications due not only to its high efficiency and low power consumption but also its long service life, low maintenance costs, color and appearance, and dimmability. A recent study done for the DOE found that LEDs are gaining ground in recessed downlights; step, path and porch lights; and street and outdoor area lights. As LED technology advances, LEDs will build market share in these and other markets.

The efficiency of commercial LED fixtures is increasing rapidly and is beginning to catch up with and in some cases eclipse other light sources. Continued research and development is projected to produce eventually LED light source efficacies of 230 lumens per watt.

The primary challenges to the advancement of LED lighting are:

- First cost
- Heat management
- Accurate product quality and performance

Consideration for membership in the NGLIA is open to any private, for-profit firm substantially active in solid state lighting research, development, infrastructure, and manufacturing in the United States. Members execute a collaboration agreement and agree to share costs and pay fees in accordance with the agreement and decisions of the membership.