

Next Generation Lighting Industry Alliance

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**An Alliance of for-profit
corporations formed to accelerate
Solid State Lighting
development and commercialization
through government-industry partnership.**

NGLIA Charter:

- **Public Advocacy on Issues Related to Inorganic and Organic based SSL (LED and OLED).**
- **Promotion and support of the DOE's Next Generation Lighting Initiative and the DOE's research program in Solid State Lighting.**
- **Facilitate communications between members and other firms in the Solid State Lighting industry and other organizations.**

MEMBERSHIP:

- **Membership consists of private, for profit companies.**
- **Member companies are active in solid state lighting research, development or manufacturing in the United States.**
- **The Board of Directors determine the qualifications of candidate firms.**
- **The Board of Directors is comprised of one voting representative from each member company.**

CURRENT MEMBERS:



MEMBERSHIP:

- **The Board of Directors elects the Chair and Vice Chair of the Alliance.**
- **The Alliance is separate from – but managed by NEMA (NEMA handles administrative and legal functions of the Alliance).**
- **The Annual dues are set to cover public advocacy expenses and NEMA administrative expenses and are divided equally among the member companies.**
- **NEMA membership is not required to be an Alliance member.**

NGLIA and NEMA:

National Electrical Manufacturers Association



- **430 member companies representing over \$100 billion in annual shipments.**
- **Activities: Standards, Government Advocacy, Product Promotion, Market Information.**
- **There are eight divisions ranging from Industrial Automation to Building Equipment.**
- **The Lighting Systems Division is comprised of Lamp, Ballast, Luminaire, Emergency Lighting, Lighting Controls and Solid State Lighting Sections.**

NGLIA and DOE:



U.S. Department of Energy
Energy Efficiency and Renewable Energy

- In February 2005 a Memorandum of Agreement (MOA) between the NGLIA and the DOE was signed.

MEMORANDUM OF AGREEMENT
BETWEEN
THE UNITED STATES DEPARTMENT OF ENERGY (DOE)
AND
THE NEXT GENERATION LIGHTING INDUSTRY ALLIANCE (NGLIA)

ARTICLE I - PURPOSE

This Memorandum of Agreement (MOA) is entered into by and between the Next Generation Lighting Industry Alliance (NGLIA) and the U.S. Department of Energy (DOE) ("the Parties") for the purpose of establishing a mutual framework governing the respective responsibilities of the Parties. The Parties will conduct activities in support of research, development, demonstration and deployment of solid state lighting (SSL) technologies for general lighting applications.

ARTICLE II - AUTHORITY

DOE enters into this MOA under the authority of, among others, the Department of Energy Organization Act (Pub. L. 95-91) section 301, 42 U.S.C. § 7151; and the Energy Reorganization Act of 1974 (Pub. L. 93-438) section 103, 42 U.S.C. § 5813.

ARTICLE III - OBJECTIVE

The objective of this MOA is to provide a partnership to conduct various activities in support of core technology research, development, demonstration and deployment activities targeted to the application of SSL technologies in energy efficient general lighting applications. In particular, this collaboration will support and enhance the Solid State Lighting Program of the Building Technologies/Lighting R&D Program within DOE's Office of Energy Efficiency and Renewable Energy. The Parties believe that this cooperation will provide DOE with a manufacturing and commercialization focus in the development of research needs and goals for the DOE SSL Program. The quality of the SSL Program will be enhanced through the NGLIA's willingness, at DOE's discretion, to provide technical expertise for proposal and project reviews. The Parties further believe that the cooperation will accelerate the implementation of SSL technologies for the public benefit through communicating of SSL Program accomplishments within the SSL community, and through encouraging the development and dissemination of metrics, codes and standards. The partnership will stimulate the implementation of SSL technologies through the Parties' efforts to promote demonstrations of SSL technologies for general lighting applications.

ARTICLE IV - SCOPE OF COLLABORATIVE ACTIVITIES

Collaboration under this MOA includes, but is not limited to, SSL activities in support of:

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Objectives of the MOA:

- **The Energy Policy Act of 2005 directed the DOE to competitively select an industry alliance that represents U.S. SSL research, development, infrastructure and manufacturing expertise.**
- **The NGLIA was selected as that industry partner.**
- **The MOA is designed to enhance the manufacturing and commercialization focus of the DOE SSL portfolio.**

Objectives of the MOA:

- **The MOA enables the DOE to access the expertise of lighting manufacturers.**
- **The NGLIA provides key input to the DOE in:**
 - **determining research priorities**
 - **assessing progress of research activities**
 - **updating the SSL technology roadmaps**

Objectives of the MOA:

- **The Alliance also supports the DOE's SSL commercialization activities by:**
 - **Encouraging the development of metrics, codes, and standards.**
 - **Communicating SSL program accomplishments.**
 - **Promoting demonstrations of SSL technologies for general lighting application.**
 - **Supporting DOE voluntary market-oriented programs such as ENERGY STAR®.**



IP Provisions of the MOA:

- **Members of the Alliance are granted the right to negotiate with DOE Technology Awardees for licensing rights to patented subject inventions made under a DOE agreement.**
- **Individual member companies are entitled to the licensing benefits for projects that have been selected for awards after the time that their membership becomes effective.**
- **Most recent – September 2007 - UCSB, “High Efficiency LED with Shaped Light Extractors...”**

SO WHAT HAS ACTUALLY BEEN ACCOMPLISHED OVER THE LAST YEAR?

-programs the NGLIA has been directly involved with

ENERGY STAR®

 ENERGY STAR® Program Requirements for
Solid State Lighting Luminaires
Eligibility Criteria – Version 1.0

Final: 9/12/07

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The final criteria for ENERGY STAR® SSL Luminaires was released in September and will become effective in September 2008.

DOE SSL Multi-Year Program Plan updated.

The new Technology R&D Plan was Developed jointly with an NGLIA Task Force.

Accomplished through a series of meetings coordinated by Fred Welsh – Radcliff Advisors



4.0 Technology Research and Development Plan

The U.S. Department of Energy supports domestic research, development, demonstration, and commercialization activities related to SSL to fulfill its objective of advancing energy-efficient technologies. The Department's SSL R&D Portfolio focuses on meeting specific technological goals, as outlined in this document, that will ultimately result in commercial products that are significantly more energy-efficient than conventional light sources.

Improving the efficiency and decreasing the cost of SSL will have a large contribution towards DOE's goal of a net-zero energy building (ZEB). Lighting constitutes approximately 12 percent of residential building energy consumption and 25 percent of commercial building energy consumption. This electricity consumption figure does not include the additional loads due to the heat generated by lighting, which is estimated to be up to 40 percent in a typical "stock" building. Further technology and cost improvements and market acceptance of SSL technologies will dramatically reduce lighting energy consumption, and thereby the total energy consumption, of residential and commercial buildings by 2025.¹

A part of the Department's mission, working through a government-industry partnership, is to facilitate new markets for high-efficiency, general illumination products that will enhance the quality of the illuminated environment as well as save energy. Over the next few years, SSL sources will expand their presence in the general illumination market, replacing some of today's lighting technologies. The Department's R&D activities will work to ensure that U.S. companies remain competitive suppliers of the next generation of lighting technology in this new paradigm.

AMENDMENT NO.

Calendar No.

Purpose: To provide a complete substitute.

IN THE SENATE OF THE UNITED STATES—110th Cong., 1st Sess.

H. R. 6

To move the United States toward greater energy independence and security, to increase the production of clean renewable fuels, to protect consumers, to increase the efficiency of products, buildings, and vehicles, to promote research on and deploy greenhouse gas capture and storage options, and to improve the energy performance of the Federal Government, and for other purposes.

Referred to the Committee on _____ and
ordered to be printed

Ordered to lie on the table and to be printed

AMENDMENT IN THE NATURE OF A SUBSTITUTE intended
to be proposed by

Viz:

1 Strike all after the enacting clause and insert the fol-
2 lowing:

3 SECTION 1. SHORT TITLE; TABLE OF CONTENTS.

4 (a) SHORT TITLE.—This Act may be cited as the
5 “Energy Independence and Security Act of 2007”.

6 (b) TABLE OF CONTENTS.—The table of contents of
7 this Act is as follows:

The “Energy Independence and Security Act of 2007” was signed into law in December.

Included in this Bill is the NGLIA’s provision establishing a “Bright Tomorrow Lighting Prize” which was developed in conjunction with Senator Jeff Bingaman (D-NM).

**Prize Structure:
\$10M – 60W incandescent replacement
\$5M – Par38 Halogen replacement
\$5M – “21st Century” SSL lamp**

Other:

- **DOE CALiPER Program**
- **CFL's in America: Lessons Learned on the Way to Market**
- **ANSI / IESNA Standards Development**
- **DOE SSL Technology Gateway Demonstrations**
- **Lighting for Tomorrow Design Competition**
- **SSL Product Quality Assurance Team**

Next Generation Lighting Industry Alliance

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