ENERGY STAR Program Update

2007 ENERGY STAR Lighting Partner Meeting
March 13, 2007

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Market Update:

- With the increase in marketing & consumer outreach, CFL market share is rising.

- Without retailer quarterly sales data submissions, difficult to accurately measure the percentage increases.

- The Department will distribute a letter to all participating retail partners to require submission of CFL quarterly sales data.

ENERGY STAR CFL Market Share

Year
(data source: NEMA)
PEARL Cycle 7 Results

- Letters were distributed on March 6th to those manufacturers who had products disqualified from ENERGY STAR.

- EEPS and retailers were contacted on March 7th with the disqualification list.

- There are four products that are undergoing retesting for rapid cycle stress test. Once testing is complete, any disqualifications will be announced.
ENERGY STAR criteria for CFLs – Version 4.0

Fourth Draft Review
ENERGY STAR criteria for CFLs – Version 4.0

Major Revisions within the fourth draft are:

**Efficacy Requirements:**
- For bare (fixed light output) products, with input \( \geq 15 \) Watts, the requirement will increase from 60 lumens per Watt to 65 lumens per Watt.
  - Majority of bare (fixed light output) qualified lamps and those seeking qualification already exceed 65 lumens per Watt.

**Candelabra–base CFLs:**
- Most candelabra–based CFLs will be 7 Watts or less.
  - Efficacy requirement is 35 lumens/Watt.
ENERGY STAR criteria for CFLs – Version 4.0

**Average Rated Life:**
Suggested lifetime requirement for all bare medium screw base CFLs will increase from 6,000 hours to 8,000 hours, a year after Version 4.0 goes into effect (January 1, 2009).

**Correlated Color Temperature (CCT):**
To help improve and drive consistent product information, the Department suggested a specific color descriptor to be used with each of the six correlated color temperatures.

- 2700K (warm white)
- 3000K (soft white)
- 3500K (white)
- 4100K (cool white)
- 5000K (natural)
- 6500K (daylight)
Elevated Temperature Testing for Reflector CFLs:

- The Department worked with industry to identify test processes for reflector CFLs for recessed downlights for indoor use.

- Criteria offers two options for the elevated temperature testing:
  - PNNL Elevated Temperature Testing Apparatus
  - Specific recessed can apparatus

GU–24 Products for Replacement Use:

- CFL criteria will require all GU–24 base CFLs to be tested in an elevated temperature environment using the same processes as identified for reflector CFLs.
ENERGY STAR criteria for CFLs – Version 4.0

Mercury Statement:
- All ENERGY STAR qualified CFLs to be labeled with the Hg symbol and the web site, www.lamprecycle.org.

Early Failures/Smoking CFLs:
- Introduced an End-of-Life requirement, currently under development by industry and is scheduled for completion by the Fall 2007.

- DOE has approved the development of consumer information to proper CFL installation and how to choose the best CFL for your fixture.
  - Early failures and smoking CFLs may be due to:
    - using the CFL in the wrong fixture or on a dimmer switch or by
    - installing the CFL by twisting the glass tubing instead of the base.
ENERGY STAR criteria for CFLs – Version 4.0

Next Steps:

- Formal comments are due by March 23rd to Richard Karney at richard.karney@ee.doe.gov.

Targeted Final Date: March 30, 2007
Effective Date: January 1, 2008
ENERGY STAR Marketing Resources
CFL Marketing Resources & Tools

With all of the market activity focused on CFLs, the Department is focused on providing comprehensive and engaging information.

- Partner Resource Guide
- Infographics
- CFL Facts & Figures
- Frequently Asked Questions (FAQs)
- 2006 ENERGY STAR Lighting Program Summary
- Media Outreach and support

More specifics will be provided by Lani MacRae.
ENERGY STAR Frequently Asked Questions (FAQs)

- DOE and EPA are working to provide as many FAQs on key CFL issues:
  - Equivalency
  - “How to Choose/Where to Use”
  - Dimming capabilities
  - Early Failures/Warranty
  - Proper Installation
  - Proper Disposal
ENERGY STAR Criteria for Solid State Lighting Luminaires
Criteria for Solid-State Lighting Luminaires

ENERGY STAR criteria for SSL Luminaires – Version 1.0 out for comment.

- Meeting held on February 8th at DOE Headquarters in Washington, DC.

- Over 60 participants:
  - Many Manufacturers
  - Standards organizations
  - Trade Organizations (ALA, NEMA)

- Review meeting presentations, formal comments, & criteria:

The Department is working on the next SSL criteria draft and plans to distribute it in about two weeks for partner review and comment.
SSL Commercial Product Testing Program

- Program publicly announced at Workshop in DC on Oct. 27, 2006.

- Purpose of Program:
  - assist DOE program planning
  - assist SSL test procedure refinement
  - inform buyers

- 8 products tested to date:
  - Downlights
  - under-cabinet lights
  - task lights

- 8 more in process

- Test results available:
  [www.netl.doe.gov/ssl/comm_testing.htm](http://www.netl.doe.gov/ssl/comm_testing.htm)

**Primary Testing Measurements**

- Total lumens
- Luminaire efficacy
- Correlated Color Temperature (CCT)
- Color Rendering Index (CRI)
- Spectral power distribution
- Electrical measurements
SSL Commercial Product Testing Program

The Department announced last week the selection of five (5) laboratories as a pre-qualification to conduct tests of market-available SSL products in support of the DOE SSL Commercial Product Testing Program.

**Selected Laboratories:**
- Gamma Scientific, San Diego, CA
- Independent Testing Laboratories, Inc., Boulder, CO
- Lighting Research Center; Rensselaer Polytechnic Institute, Troy, NY
- Lighting Sciences, Inc., Scottsdale, AZ
- Luminaire Testing Laboratory, Inc., Allentown, PA
SSL Technical Information Network

- Purpose of Network is to increase awareness of SSL technology, performance, and appropriate applications.

- Network will meet on regular basis to share information, disseminate to end-users.

- DOE will competitively select lead organizations to establish network in 2007

- Opportunity to participate

**Participants**
- Energy efficiency organizations
- Utilities
- State and local energy offices
- Lighting trade groups

**Target Audiences**
- Builders
- Lighting contractors
- Building owners and managers
- Energy efficiency program managers
Learn More

Voices for SSL Efficiency:
Opportunities to Partner and Participate

Workshop on Market Introduction

Sponsored by DOE and SCE
April 23–24, 2007
Irwindale, California

For more information:
www.netl.doe.gov/ssl
Please feel free to contact me at:

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