



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

ENERGY STAR Program Update

2007 ENERGY STAR Lighting Partner
Meeting

March 13, 2007

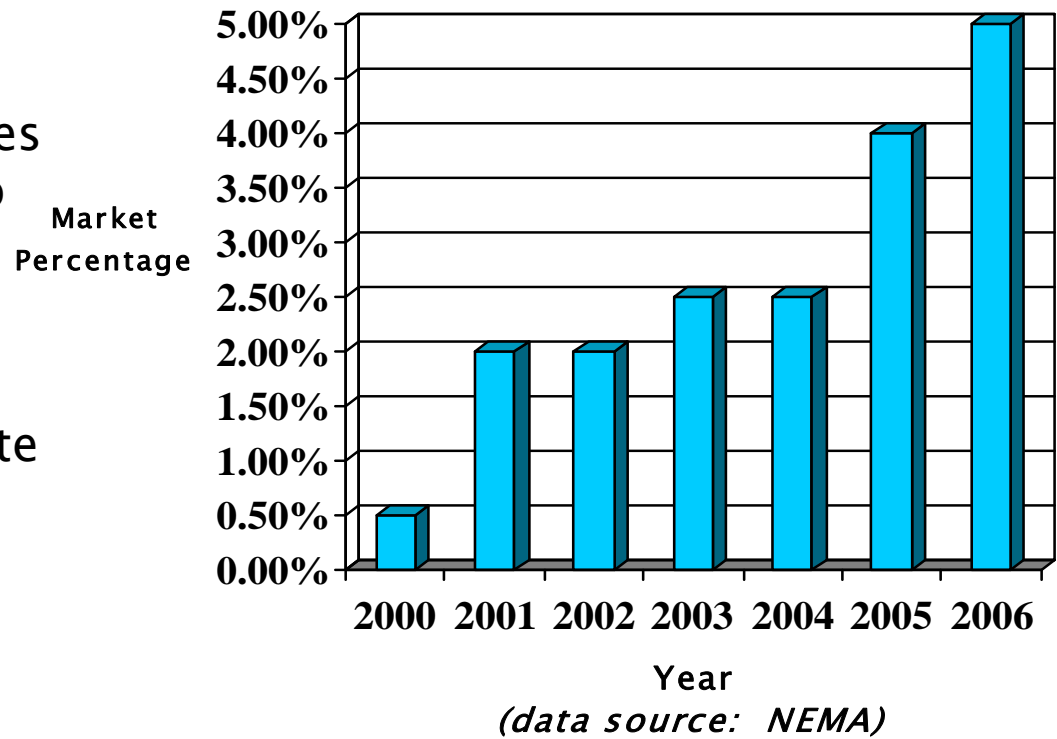
Richard H. Karney, P.E.
ENERGY STAR Products Manager
U.S. Department of Energy



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





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.



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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 ≥ 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)



ENERGY STAR criteria for CFLs – Version 4.0

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





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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

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THE QUALITY OF OUR ENVIRONMENT IS EVERYONE'S RESPONSIBILITY

Products Home Improvement New Homes Buildings & Plants Partner Resources

Home > Frequently Asked Questions

Answers Login Help

Search Lighting (CFLs, Bulbs, Fixtures) GO [FAQ Topic Index](#) [Search Tips](#)

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	Question
1	Can I turn my Compact Fluorescent Lights (CFL) on and off frequently? I've been told I have to turn it on and leave it on all day.
2	Can ENERGY STAR qualified Compact Fluorescent Lights (CFLs) be used in recessed cans, outdoor lights, or track lighting?
3	Does ENERGY STAR recommend installing CFLs in the bathroom?
4	What should I do with a CFL when it burns out?
5	Can ENERGY STAR qualified CFLs be used with dimmer switches?
6	Can I use CFLs with "60-degree wiring"?
7	Does extreme cold or humidity affect CFLs?
8	What are "long life" incandescent light bulbs?
9	My CFL burned out before the packaging stated it should. What can I do to get my money back?



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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:
http://www.energystar.gov/index.cfm?c=new_specs.ssl_luminaires

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

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:

Richard Karney, P.E.
ENERGY STAR Products Manager
U.S. Department of Energy
richard.karney@ee.doe.gov