Update on the 2006 Competition

Kelly Gordon, PNNL
March 1, 2006
ENERGY STAR Lighting Partner Meeting
Organizers

- American Lighting Association
  - Lighting showrooms
  - Lighting fixture manufacturers
- Consortium for Energy Efficiency
  - Efficiency Program Administrators
- U.S. Department of Energy
  - Represented by PNNL
Objectives

• Encourage and recognize attractive, energy-efficient residential lighting fixtures.
• Build demand for energy-efficient lighting by demonstrating that it can be highly attractive and functional.
• Encourage technical innovation in energy-efficient lighting.
What Have We Done to Date?

- 2003-2004
  - Fixture design competition
- 2005
  - Design and technology competition
  - Color research
  - Program assistance on fixture promotion
  - Evaluation
Manufacturer Participation

- Lithonia
- Lightolier
- Kichler
- Progress
- American Fluorescent
- Justice Design Group
- Fire & Water
- Designers Fountain
- Good Earth Lighting
Winners of First Competition

Grand Prize Winner
American Fluorescent

Second Place Winners
Lightolier
Soren Momsen
Forecast
2005 Winners
Honorable Mention

Good Earth Lighting

Fire & Water
2005 Winners
Second Place – Indoor Category

Justice Design Group
2005 Winners
First Place – Outdoor Category

American Fluorescent
2005 Winners
First Place – Indoor Category

Lithonia Lighting
2005 Winners
Technical Innovation

Dimmable Energy-Efficient Lighting

American Fluorescent
Trade Press

• Residential Lighting
• Home Lighting & Accessories
• Home Furnishing News
• Online Stories:
  – Architectural Lighting
  – Lighting.com
  – Interior Design
Consumer Press

- Sunset Magazine
- Natural Home & Garden
- Local newspapers
  - Daily Herald, Chicago
  - Orange County Register, LA
What’s Next? 2006 Program

• Yearbook of energy-efficient fixtures
  – Retailer outreach
  – Builder program development

• First Solid-State Lighting Competition
Yearbook Competition

• Communicate:
  – Availability has increased
  – More products on the way
  – New fixtures meet various style needs and price points

• Highlight the best of the new ENERGY STAR fixtures/fans
  – Competitive selection process
Competition Details

• Fixture families, both indoor and outdoor
• Current year products eligible
  – Introduced between 1/1/06 and 1/31/07
• Meet ENERGY STAR RLF v. 4.0
• Judging panel selects families to be included in the Yearbook
• Balloting among ALA showrooms selects "Best Design"
Promoting the Yearbook

• Lighting for Tomorrow will print 10,000
• Disseminate to:
  – ENERGY STAR partner lighting retailers
  – Homebuilders
  – Energy efficiency program sponsors
• Encourage sponsors to use locally
  – CEE leading talks about program approaches to reach retailers and builders
SSL Competition

- Objectives
  - Explore use of SSL in niche applications
  - Evaluate fixtures employing SSL
  - Facilitate learning by lighting fixture industry
- Advocate high-quality, energy-efficient use of SSL
- Publicize within lighting community rather than mass market
Guidelines and Rules

• General illumination only
• Niche applications
  – Under-cabinet and in-cabinet
  – Desk and task lighting
  – Outdoor porch, step, pathway
• Minimum LED + driver efficacy
  – 30 lpw for <5000K
  – 35 lpw for 5000K and above
• Application efficiency
Evaluation of Prototypes

• Fixtures installed in typical setting
• Light measurements
• Wattage metered
• Subjective evaluation by judges
  – Color appearance and quality
  – Overall design, appearance, functionality
## LFT Timeline

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For more information

- Kelly Gordon, PNNL, 503-417-7558
- Rebecca Foster, CEE, 617-589-3949
- Terry McGowan, ALA, 216-291-1884

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