



ENERGY STAR[®]

Lighting Road Mapping Meeting

Efficiency Program Outlook

Eileen Eaton
Program Manager
January 30, 2014
Rosslyn, VA

CEE Today



- ▶ CEE brings together 130 program administrators serving all or part of 45 states and 7 provinces
- ▶ CEE program model was recognized by the EPA with the 2009 Climate Protection Award 
- ▶ CEE is a member-driven nonprofit, governed by a Board of Directors from member organizations

CEE Members: Working Together

Program Administrators

AEP—Ohio
Alabama Power
Alliant Energy—Iowa
Alliant Energy—Wisconsin
Ameren Illinois
Ameren Missouri
Arizona Public Service
Atmos Energy
Austin Energy
Avista Utilities
Baltimore Gas & Electric
BC Hydro
Berkshire Gas
Black Hills Energy—Colorado
Black Hills Energy—Iowa
Bonneville Power Administration
Cape Light Compact
Cascade Natural Gas
Centerpoint Energy—Minnesota
Citizens Energy Group
City of Palo Alto Utilities
City Utilities of Springfield—Missouri
Columbia Gas of Massachusetts
Columbia Gas of Ohio
Commonwealth Edison
Consolidated Edison
Consumers Energy
DC Sustainable Energy Utility
Delta Natural Gas

DTE Energy
Duke Energy
Efficiency Maine
Efficiency NB
Efficiency Nova Scotia
Efficiency Vermont
Energy Trust of Oregon
Eugene Water & Electric Board
Focus on Energy—Wisconsin
FortisBC
Gaz Métro
Georgia Power
Great Plains Natural Gas
Gulf Power
Hawaii Energy Efficiency Program
Hydro-Québec
Idaho Power
Indianapolis Power & Light Company
Iowa Energy Center
LG&E and KU Energy LLC
Los Angeles Department of Water & Power
Mass. DOER
MidAmerican Energy
Minnesota Department of Commerce
Mississippi Power
Montana-Dakota Utilities
National Grid
Natural Resources Canada
Nebraska Public Power District
New England Gas Company

New Hampshire Electric Co-op
New Jersey's Clean Energy Program
New Jersey Natural Gas
New Mexico Gas Company
New York Power Authority
Newfoundland and Labrador Hydro
Newfoundland Power
Nicor Gas
Northeast Utilities
Northern California Power Agency
Northern Indiana Public Service Company
NV Energy
NYSERDA
Omaha Public Power District
Oncor Corporation
Pacific Gas and Electric Company
PECO
Platte River Power Authority
PNM
PPL Electric Utilities
PSEG Long Island
Public Service Electric & Gas
Puget Sound Energy
Questar Gas
Rocky Mountain Power—Utah
Rocky Mountain Power—Wyoming

Sacramento Municipal Utility District
Salt River Project
San Diego Gas & Electric
SaskPower
Seattle City Light
Snohomish Public Utility District
SourceGas
South Jersey Gas
Southern California Edison
Southern California Gas
Southern Connecticut Gas
Southern Minnesota Municipal Power Agency
Southwest Gas
Tacoma Public Utilities
Tampa Electric Company
Tennessee Valley Authority
Union Gas
United Illuminating Company
Unitil
Vectren Corporation
Vermont Department of Public Service
Vermont Gas
Xcel Energy

Efficiency Organizations National Laboratories

Alliance to Save Energy
American Council for an Energy-Efficient Economy
California Energy Commission

California Institute for Energy and Environment
Fraunhofer Center for Sustainable Energy Systems
Lawrence Berkeley National Laboratory
Mass. DOER
Midwest Energy Efficiency Alliance
National Renewable Energy Laboratory
Natural Resources Defense Council
New Buildings Institute
Northeast Energy Efficiency Partnerships
Northwest Energy Efficiency Alliance
Oak Ridge National Laboratory
Pacific Northwest National Laboratory
Southwest Energy Efficiency Project

Federal Advisors

Natural Resources Canada
US DOE
US EPA

Energy Efficiency Programs Need a Trusted Brand

▼ Rely on ENERGY STAR to:

- Differentiate
- Message to the heart and mind
- Project credibility
- Strike emotional chord
- Create loyalty



Vision for Alignment with ENERGY STAR

ENERGY STAR®
for market differentiation

CEE specifications
for programs



Save More.
Energy. Money. Environment.



Increasing Energy Performance

CEE Advanced Tier

CEE Tier 2, 3, 4

CEE Tier 1

Top 25% of energy performers in a mass market product category

CEE Lighting Committees

▼ Residential Lighting

- Overview of individual program activity
- CEE 2014 activities priorities

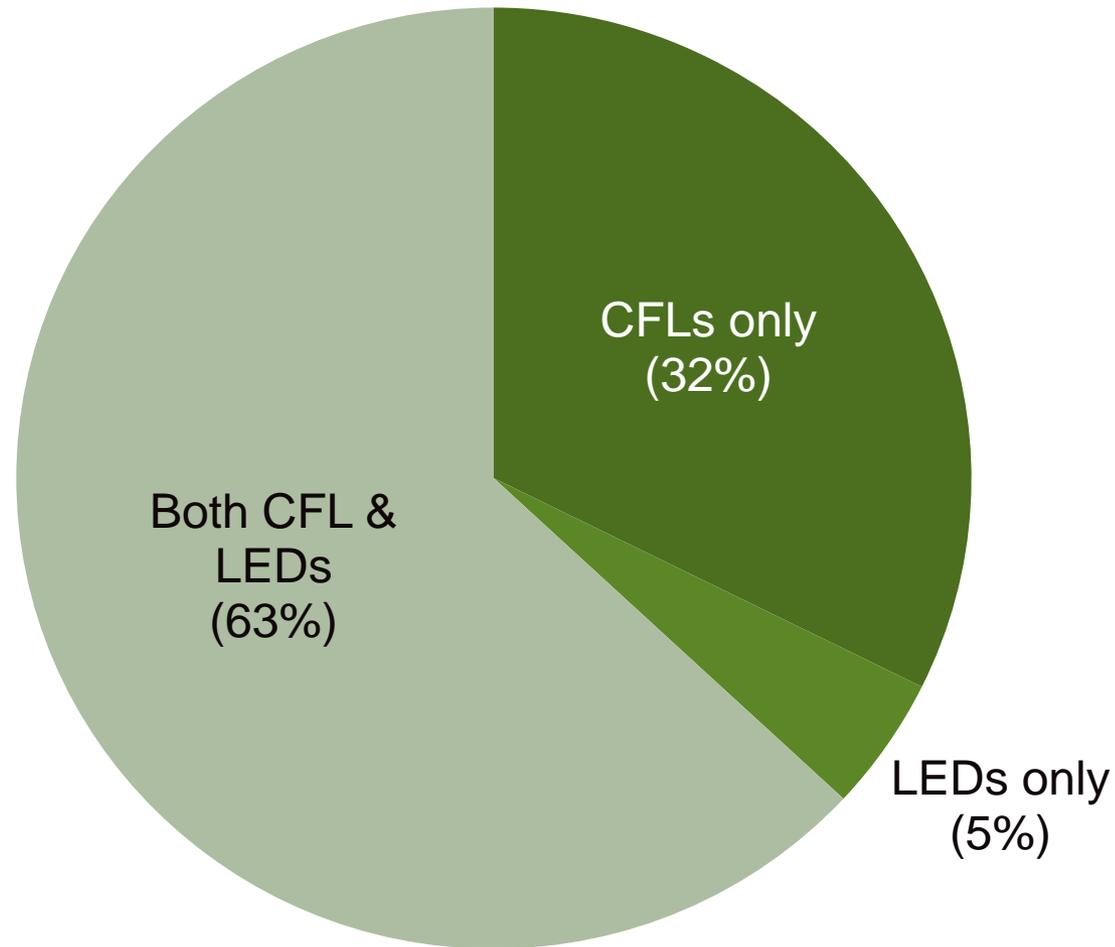
▼ Commercial Lighting

- CEE 2014 activities and priorities

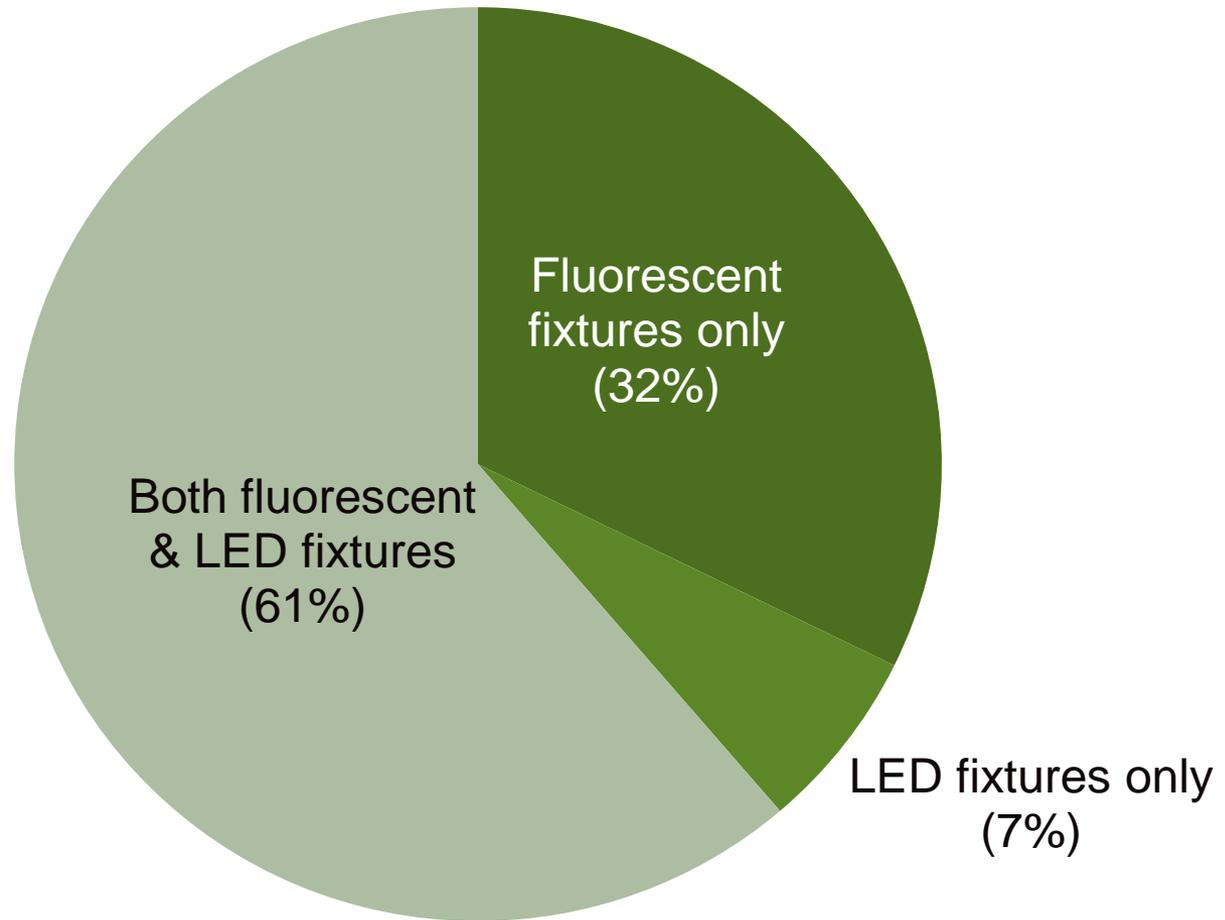
CEE Member Program Activity

- ▶ 66 CEE members were running residential lighting programs in 2013
 - 61 promoting ENERGY STAR lamps
 - 29 promoting ENERGY STAR luminaires

CEE Member Lamp Programs



CEE Member Luminaire Programs



CEE 2014 Residential Lighting Priorities

- ▶ Finalize the CEE Advanced Lamp Specification
- ▶ Enable program sharing of intelligence on product availability, pricing and marketing
- ▶ Support the *Lighting for Tomorrow* Competition

Differing Lighting Program Needs

- ▶ *Traditional Lighting Programs* are looking to promote a variety of energy efficient technologies in the market (CFLs and LEDs) and are highly sensitive to price 
ENERGY STAR Lighting Specs
- ▶ *Advanced Lighting Programs* are looking to promote the most efficient and top performing products in the market  **Current specs aren't stringent enough**

Purpose of an Advanced Lamp Spec

- ▶ To respond to the needs of *Advanced Lighting Programs*, CEE is developing an Advanced Lamp Spec
- ▶ The objectives of this specification are to:
 - Enable greater energy savings
 - Recognize top performing products in the market
 - Accelerate lighting industry's investment in technology relative to performance and quality

Advanced Lamp Spec Scope

- ▶ The scope of this specification is currently limited to **integral replacement lamps sold at retail**
 - Lamps that could be used in both residential and commercial applications
 - Does not include:
 - Linear replacement products
 - Fixtures

Important Aspects of Advanced Lamp Spec

- ▶ ENERGY STAR qualification is a baseline requirement
- ▶ CEE doesn't plan to perform verification testing. Metrics/requirements are based on data already being reported to EPA
- ▶ The spec is technology neutral

Important Aspects of Advanced Lamp Spec

- ▶ Separate requirements for three application types: omnidirectional, directional, and decorative lamps
- ▶ Employing a tiered approach:
 - Accommodates varying market conditions and program needs
 - Enables programs to encourage manufacturers with different incentive levels

Lighting for Tomorrow Competition

- ▶ Support the development and market introduction of high quality, well designed energy efficient residential lighting
- ▶ In 2014, Sponsors have indicated interested in:
 - High lumen lamps
 - Lamps under \$10
 - Fixtures under \$50
 - High efficacy products (>65 lm/W)
 - High CRI products (90+)

Commercial Lighting Work at CEE

- ▶ Historical focus: T8 lamps and ballasts
- ▶ 2014 → Advanced Com. Lighting Initiative
 - **Application-based** performance tiers
 - **Beyond efficacy**: tiers build from product (luminaire) level to project (lighting system + controls + design)
 - Support new program approaches to promote **efficiency at system level**
 - Initial areas of exploration: troffers and warehouses

CEE Contacts

▼ Residential Lighting

Eileen Eaton

Program Manager

617-337-9263

EEaton@cee1.org

▼ Commercial Lighting

Helen Aki

Program Manager

617-337-9267

HAki@cee1.org