

Helping You Sell Lighting Efficiency Better

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Agenda

- The market for efficient lighting
- The role of ENERGY STAR
- EPA resources for marketing efficient lighting
- Discussion: How can EPA best support partners in marketing ENERGY STAR lighting products



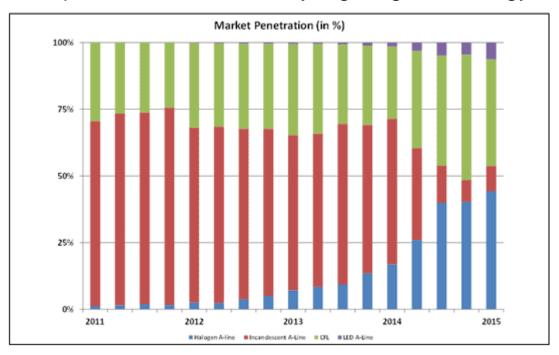


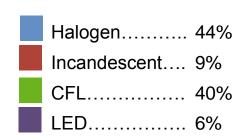




Inefficient A-Line Bulbs Still Hold Majority

Shipment Market Share by Lighting Technology





- Despite quarterly decline, halogen A-line still secures top position
- LED A-lines steadily increasing

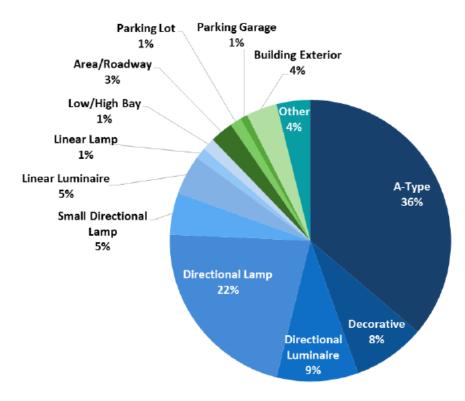




LED Lighting Installations

- In 2014 EPA estimates
 - 15% of light bulbs shipped were ENERGY STAR certified
 - 64% of CFLs shipped were ENERGY STAR certified
 - 75% of LED bulbs shipped were ENERGY STAR certified
- From 2012 to 2014, the units of LED lighting installed in the U.S. increased four-fold to 215 million

Total 2014 LED Units Installed by Application

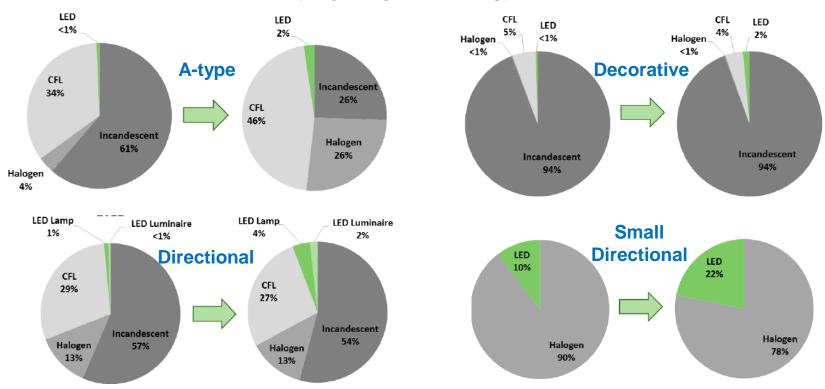






LED Market Penetration is Still Low

Overall market adoption by lighting technology. Comparison: 2012 to 2014



 LED market penetration by bulb type: 2% A-type, 2% decorative, 6% directional, and 22% small directional (eg. MR -16)

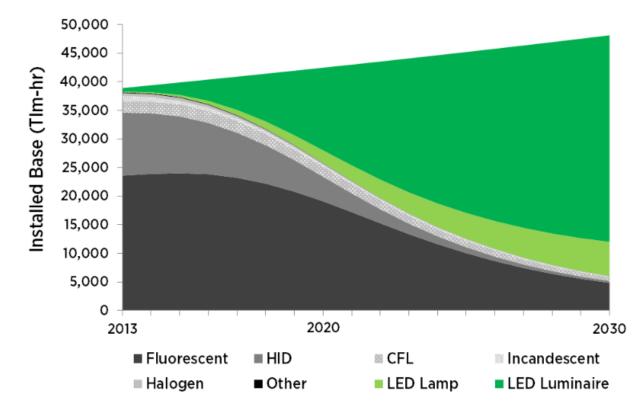




LED Lighting Forecasted to Grow Dramatically

- By 2020, LED lighting could account for approximately 40% of installed base (measured in lumen-hours)
- By 2030, LED lighting is forecasted to represent 84% of all lighting sales

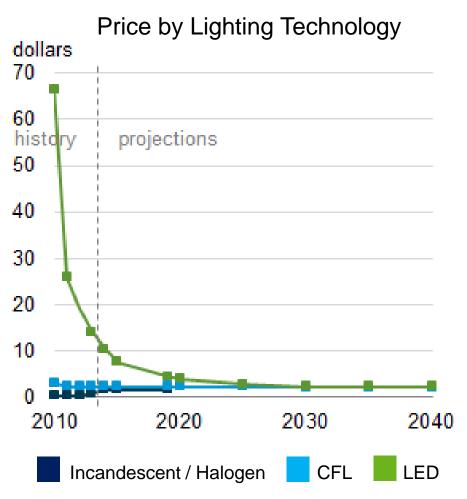
Installed base forecast by lighting technology







The Price of LED Bulbs is Decreasing Rapidly

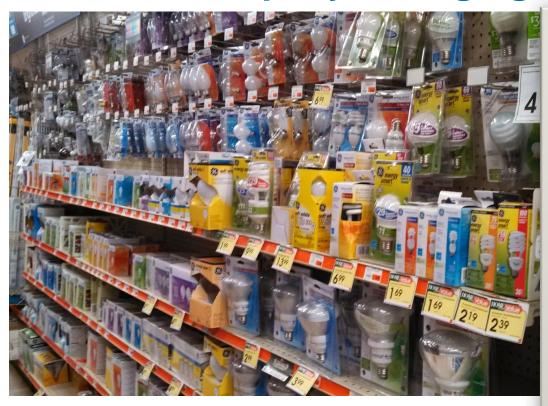


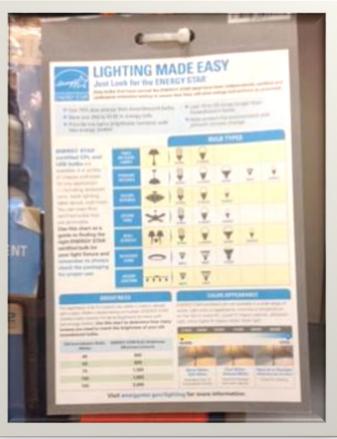
- LED A-type averages
 \$13/klm by end of 2014, a
 50% reduction from
 \$27/klm (klm = kilo lumen)
- Big box retailers A-type close to \$11/klm – 5x that of halogen (\$2/klm) and non-dimmable CFL replacements (\$2.50/klm)
- LED lighting market is anticipated to grow 45% per year, from \$13.6 billion in 2014 and anticipated to reach \$63.1 billion by 2020.





Lighting Customers are Overwhelmed by Choice and a Rapidly Changing Lighting Aisle









Why ENERGY STAR Matters

- Independent certification. Products are certified by accredited third-parties based on testing in labs recognized by EPA.
- Market surveillance. Products are subject to random "off-the-shelf" testing every year.
- Rigorous testing. Products are tested and evaluated against more than 20 requirements to deliver on consumer expectation.

For example:

- Minimum light output requirements to ensure you get as much light as the package claims for wattage equivalency.
- Dimability. Products indicate whether they
 are dimmable or not on the front of the
 package. Those that are, dim to at least 20%
 & provide info on dimmer compatibility.

- Light where you want it. ENERGY STAR
 LED lighting products must demonstrate that
 they deliver light the way consumers expect
 them to. E.g. light in all directions, vs the limited
 range common with non-certified bulbs.
- Lasting performance. LED lighting can fade dramatically, degrade, or turn green if not properly designed. Products that have earned the ENERGY STAR
 - Are subject to 6 different requirements for color,
 to ensure good light color up front and over time
 - undergo thousands of hours of testing to support those long life claims of 20+ years.
 - undergo stress tests in operating environments similar to how you use the product
 - carry a minimum 3-year warranty.





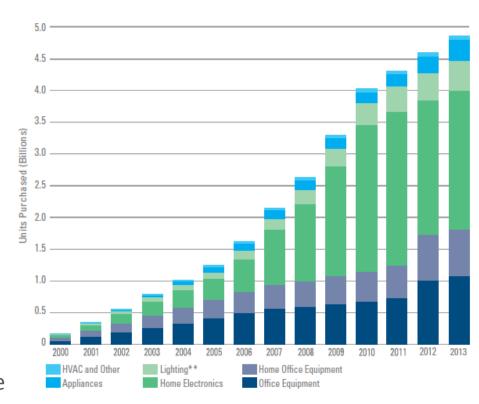
ENERGY STAR Drives Sales

- Nearly 90% of Americans recognize the ENERGY STAR label.
- Of households who purchased an ENERGY STAR certified product,
 77% of them reported the label as influential to their purchasing decision.
- 75% of households that knowingly purchased an ENERGY STAR product in 2014 reported they are likely to recommend ENERGY STAR products to friends.

Bottom line:

More **than 4.8 billion** products sold in the 20 years since ENERGY STAR's inception.

ENERGY STAR Certified Products Purchased







EPA has Resources to Help Partners Market Efficient Lighting

- Online Resources
- Digital Marketing Materials
- In-Store Materials
- Campaigns





Provide additional feedback at PollEv.com/ESPPM2015



Resources at energystar.gov

Articles, factsheets, user guides, podcasts, videos and more

- Energystar.gov/lighting
- Energystar.gov/led

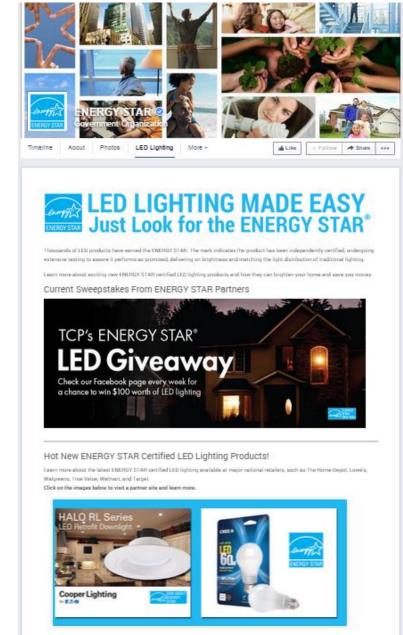






Highlighting Partner Activities

- Facebook LED Tab
 - Partner sweepstakes
 - New ENERGY STAR products
 - Partner resources
 - Partner press







E-Newsletter Offers Current Updates

ENERGY STAR Lighting Newsletter offers information about:

- Upcoming events
- New Resources
- Specifications and testing
- Opportunities to engage with ENERGY STAR
- More

ENERGY STAR® Lighting Newsletter

Lighting the Way to a Brighter Future



Light Fair International 2015, May 5-8

Latest Updates on Lighting Specifications in Development

How to Flan for the 2015 ENERGY STAR Products Partner

Meeting

2015 ENERGY STAR Lighting Marketing Plans ENERGY STAR New Lighting Tools and Resources Elevate your ENERGY STAR Products



Light Fair International 2015 is This Week in NYC! VISIT US at booth #3177

To be added to the ENERGY STAR Lighting Newsletter list, send an email to changetheworld@energystar.gov





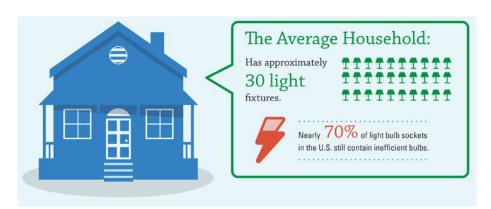
Marketing Materials are Available to Partners

Available materials include:

- Factsheets
- Infographics
- Graphics
- Videos

Example uses include:

- Embed on websites
- Share via social media
- Include in educational materials
- In-store displays





Find these materials at energystar.gov





Ask the Expert Video Resource







Gallery of Dim Bulbs



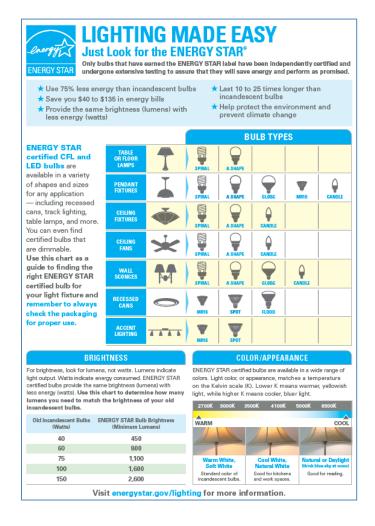








Multi-Lingual In-Store Resources









New LED Lighting Materials

Renovate with LED Lighting







Are you planning a home renovation? Look for ENERGY STAR certified LED lighting to enhance your new home design, save money on your energy bills, and help protect the climate!

Why buy ENERGY STAR certified LED bulbs and fixtures?

- Use 90% less energy than incandescent bulbs
- A single certified bulb can save up to \$75 in electricity costs over its lifetime
- · Provide the same brightness (lumens) with less energy (watts)
- Last up to 25 times longer than incandescent bulbs
- Variety of shapes and sizes to fit your renovation needs
- . Help protect the environment and prevent climate change
- Independently certified and extensively tested to assure quality. performance, and promised energy savings



What are the features of ENERGY STAR certified LED bulbs and fixtures?

C Lifetime Savings

Replacing your home's five most frequently used bulbs or light fixtures with ones that have earned the ENERGY STAR can save \$35 each year. ENERGY STAR certified ceiling fans with lights are 60% more efficient than standard models and can save you \$170 in energy costs over the fan's lifetime. Plus, many utilities offer rebates on certified bulbs or fixtures.

Dimming Capability

If you're looking for dimmable lighting, make sure to install dimmer switches that are compatible with LED lights. ENERGY STAR bulbs and fixtures provide dimming capability and compatibility information right on the package. Learn more at energystar.gov/dimmable.

Color

To earn the ENERGY STAR, LED lighting must meet six different requirements to ensure quality light color. (Improperly designed LED products can degrade over time). You can also choose from different shades of white light, allowing you to customize



the feel of your space. Available shades range from a soft, warm glow that matches traditional lighting to a whiter, crisper light for activities like reading or projects. Choose the light appearance number that fits your needs (e.g. 2700K for soft, warm and 4100K+ for whiter, crisper shades). Make sure to select the same shades for lights sharing the same space.

Go to energystar.gov/LED for more information.

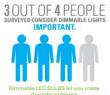
Dimmable LED Lighting







Visit the manufacturer-provided URL for a list of recommended DIMMERS





LAST MORE THAN 20 YEARS







FARNED THE ENERGY STAR ARE INDEPENDENTLY CERTIFIED TO DELIVER QUALITY AND PERFORMANCE at least 20% of light and co



Look for the ENERGY STAR. Every dimmable ENERGY STAR LED bulb will have the word

the package.

Be prepared to try different Not every bulb works well with "dimmable" right on the front of

every dimmer switch. If you don't find a good match with your current dimmer, consider changing the switch, or you can return the bulb and try a different one.



Choose the right dimmer/bulb

If you are putting in a new dimmer switch, check the website listed on the bulb package for recommended





ENERGY STAR LED Lighting Promotions

Consumer Outreach

- Year-long lighting promotion focused on key attributes of certified bulbs:
 - Dimming
 - Renovations
 - Color
 - Lifetime Savings
 - Rebates
- Promotional outreach included consumer fact sheets, buyers guide, web page, dedicated monthly social media, Twitter Party, media pitching, Vlogger video placements









Upcoming Vlogger Program

Working with three popular video bloggers to educate audiences about the benefits of ENERGY STAR LED Lighting. Each blogger is focused on a different aspect:

- Renovations: Engineer Your Space with Isabelle Larue
- Color: At Home with Nikki with Nikki Boyd
- Savings: I Like Weylie with Weylie Hoang

Combined 1.5 million YouTube subscribers and 503k social followers







Continuing LED Focus

Updating the ENERGY STAR Choose a Light Guide







Keep an Eye Out...

- The ENERGY STAR Change the World Community Service Tour is coming back in October 2016
- Community service projects will include an element that encourages consumers to purchase LED lighting, and in turn brings the gift of energy-efficient lighting to communities in need.
- Learn more at the Communications Marketing Working Session at 5pm on Tuesday.









Questions and Inquiries

lighting@energystar.gov

