

The NY Products Program and Next Generation Technologies



LIFE Conference
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The New York Products Program

Objective

- Increase the supply and demand for energy-efficient and ENERGY STAR® certified products by partnering with retailers across the State and manufacturers worldwide.
- NYSERDA focuses on ensuring greater availability of higher-efficiency ENERGY STAR certified products and promoting the benefits of these products to the general public in order to achieve market transformation.

New York Products Program

- Strong focus on consumer education and awareness of the ENERGY STAR label.
- More than 75 manufacturer partners and more than 860 retail partner store fronts.
- Qualified Products include:
 - Appliances
 - Lighting
 - Power Management



Power Management

- Power Management uses technology combined with behavior changes to reduce energy consumption, specifically plug load
- Advanced Power Strips are the low-cost option to power management to control plug-load and eliminate Standby Power, sometimes called “phantom load” or “vampire load.”
- Whole-house automation, smart appliances and getting homes ready for smart grid seems is the next step.
- **Power Managing Tools + Behavior Change = Power Management**



Advance Power Strips

Challenges

- No ENERGY STAR Label for Advanced Power Strips
No “tried and true” testing and evaluation practices
 - Market research provides evidence that there is savings potential, but that number is widely disputed
 - It is hard to determine what an Advanced Power Strip will save from person to person, household habits, etc.
 - Based on consumer preferences and behavior
 - What is “Tier 1” and “Tier 2” Advanced Power Strips?
 - Currently using deemed savings of 87 kWh for Tier 1 and 261 kWh for Tier 2 models.
 - EDUCATION, EDUCATION, EDUCATION!

Why Advanced Power Strips?

- According to E-Source, plug-load now accounts for 15% of a home's electricity consumption, up five percent from 2010 due to an increase in consumer electronics, chargers, and other plug-in gadgets in residential homes.
- Some estimates suggest consumers have 20-40 plug-load devices and electronics in their home.
- Low-cost measure that saves kWh and derives energy savings from plug load and standby consumption.
- Does not rely solely on behavior to curb standby consumption and allows consumers to *easily* control and properly manage their electronics

LEDs

- Current lighting initiative through the NY Products Program is being revised.
- LED funding portion of the budget has been encumbered or invoiced largely because of the fast sell-through.
- Lowered our \$/bulb for LEDs from \$8/bulb, \$7/bulb, and quickly dropped to \$3/bulb.

LED retrofit: Ellenville Housing Authority

Before



After



Challenges

- Again, Education, Education, Education!
 - Lighting Facts Label
 - Omni-directional vs. directional
 - Lumens vs. Watts
 - Finding the right bulb
 - Great resource: Lighting Pattern Book at: www.lrc.rpi.edu/patternbook
- First-cost of LEDs still a barrier, especially for low-income households.
- Not many 75w, 100w LED replacements on shelves, but more expected to come to market by end of this year.



Why LEDs?

- Most efficient, longest lasting bulb on the market.
- More people prefer the light and color of LEDs compared to common CFL bulbs.
- LEDs continue to drop in price. At this rate, it is realistic that a \$5 LED bulb will be on store shelves by the end of this year.
- Approximately only 1 out of 4 sockets in NYS have energy-efficient lighting

QUESTIONS?

THANK YOU!

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