



# ENERGY STAR

## CE/IT Specification Development Update

November 2011



Learn more at [energystar.gov](http://energystar.gov)

# 2012 Program Priorities

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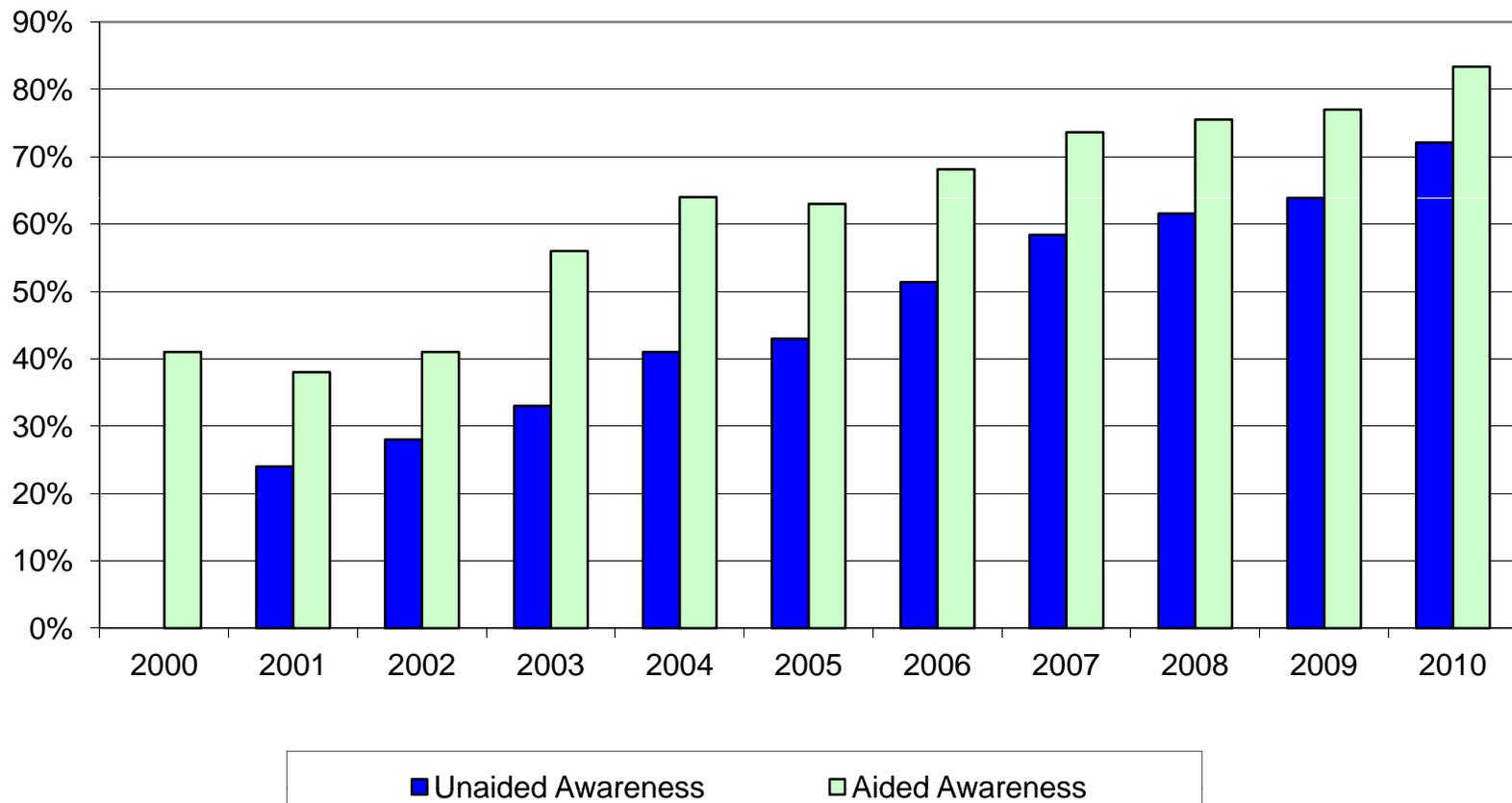


- Maintaining strong brand is priority
  - More frequent reviews / updates to ENERGY STAR criteria
  - Expand the ENERGY STAR Products Portfolio
- Extend Most Efficient pilot for select product categories
- Refine third party certification/verification program
- Engage with consumers via social media campaigns
- Reinforce international partnerships

# 2010 Awareness



Awareness of ENERGY STAR



# ENERGY STAR Most Efficient



- Goal
  - Drive more energy efficient products into the market more quickly.
- Challenge
  - Determine the best strategy for identifying the top, few, most energy efficient products for early adopters without confusing consumers or harming the ENERGY STAR brand.



# Most Efficient of ENERGY STAR Pilot Next Steps

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- Evaluate 2011 Criteria
  - Does it effectively recognize the most efficient products on the market in the covered product categories?
  - Release draft Q4 2011
- Extend Pilot through 2012
  - As requested by partners, including utilities
  - Give Most Efficient adequate pilot period

# More Frequent Spec Revisions



- 21 total specification updates planned for 2012
- 18 expected to be completed in 2012
  - Electronics/IT
    - A/V, Computers, Servers, TVs, Battery Chargers, Telephony, Set Top Boxes , Small Networking Equipment
  - Appliances
    - Refrig/Freezers, Clothes Washers (review)
  - HVAC
    - Room AC, Water Heaters, Central Air, LCHVAC, Boilers, Ceiling/Vent Fans
  - Lighting
    - Lamps
  - CFS
    - Refrig, Ovens, Steam Cookers
  - Home Envelope
    - Windows/doors/skylights

# CE Spec Overview



2011/ 2012	Audio/Visual	Battery Chargers	Computer	Displays	Imaging	TVs	Telephony						
July	Launched April 2011	Draft May 2011	Launched February 2011	Launched December 2010	Launched March 2011	Launched April 2011							
Aug	Drafts (June 2011)	Test Procedure Development	Data (April 2011)	Drafts	Drafts (May 2011)	Drafts (June 2011)	Launch						
Sept	↓		Drafts										
Oct	Final	Drafts	Drafts	Final	Final	Final	Test Procedure Development						
Nov													
Dec	Final	Final	Final	Final	Final	Final	Data						
Jan							↓						
Feb							Final	Final	Final	Final	Final	Final	↓
Mar													
Apr							Final	Final	Final	Final	Final	Final	Drafts
May													
Jun	Final	Final	Final	Final	Final	Final	Final (July 2012)						



# Audio/Video



- Goals:
  - Develop On Mode power levels
  - Version 3.0 will replace Tier 2
  - Identify opportunities for increased energy efficiency
  - Improve clarity of certain terms and concepts
- Timeline
  - Launched April 2011
  - Draft 1 published June 2011
  - Draft 2 published September 2011
  - Aim to finalize in November
  - Effective July 2012

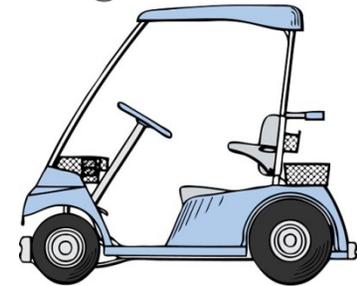
# Battery Chargers



- Goals:

- Expand scope to include more small devices, golf carts, and industrial products

- Address active charge mode
- Reference DOE test procedure



- Timeline

- Draft 1 November, stakeholder meeting December
- Finalize test method, Fall 2011
- Complete specification development Spring 2012
- Version 2.0 effective:
  - Upon Completion, golf carts and industrial chargers;
  - 9 months post specification completion, existing chargers



# Computers



- Goals:
  - Broaden scope to include more mobile devices
  - Raise the bar re: modal requirements
  - Consider delivering other environmental benefits
- Timeline:
  - Launched February 2011
  - Complete Q1 2012
  - Effective Q4 2012



# Displays



- Highlighted issues
  - Re-examine On mode power equation
  - Standardize implementation of ABC testing
  - Luminance for testing
  - Address other environmental impacts
- Timeline
  - 12/27/2010 – launch Display spec revision
  - 2/24/11 – Web meeting on Display V6 launch
  - 6/3/11 – Draft 1 V6
  - 9/20/11 – Draft 2 V6
  - 9/27/11 – Stakeholder meeting
  - Complete Q4 2011
  - Effective Q3 2012



# Imaging Equipment



- Issues identified to date
  - Analysis of current scope
  - Test set up and method review
  - Revised on mode and functional adder allowances
  - Address other environmental impacts
- Timeline
  - November 2011 – draft 1 specification to be distributed
  - Q1 2012 – Final V2.0
  - Q4 2012 – V2 effective date



# Set Top Boxes

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- Goals:
  - Version 3 effective September 2011
  - Version 4 set for September 2013
  - Review Version 4 levels to ensure they align with market
- Timeline
  - Q4 2012 complete market review/engage with stakeholders on V 4 levels

# Small Networking Equipment



- Goals
  - Covered products Version 1: ONT Broadband Modem; Integrated Access Device (IAD); Router; Switch
  - Cover additional products Version 2
  - Focus on typical power consumption
- Timeline
  - First draft specification November
  - Comments due November/December
  - Second draft expected early January 2012
  - Final specification expected March 2012

# Televisions

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- Goals:
  - Version 5.3 effective September 2011
  - Version 6.0 launched Spring 2011 in response to growing market share
  - Version 6.0 aims to improve how to address Automatic Brightness Control in TVs
- Timeline
  - Launched Version 6.0 in April 2011
  - Draft 1 published June 2011
  - Draft 2 expected Fall 2011
  - Final Winter 2011
  - Effective Fall 2012

# Telephony

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- Goals
  - Refresh energy efficiency requirements for currently covered products
  - Take into consideration increasing prevalence of additional features
  - Expand the scope to corded phones and VoIP phones
- Timeline
  - Test method Final December 2011
  - Data collection Dec-Feb 2012
  - Draft 1 March 2012
  - Final July 2012

# Uninterruptible Power Supplies



- Goals
  - Scope includes products for consumer and data center
  - Include both AC and DC systems, plus allow for innovative energy efficiency technologies
- Timeline
  - Launched – October 2010
  - Data assembly – January – April 2011
  - Draft 1 – May 2011; Draft 2 – July 2011; Draft 3 – October 2011
  - Final specification January 2012

# Proposed Recognition Program for Game Consoles

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- Why this product is different
  - 3 manufacturers & 3 products
- EPA's Proposed Approach
  - Set technical requirements with stakeholders
  - Recognize manufacturers that commit to requirements
  - Recognize consoles meeting requirements
- Timeline
  - August 14 – Draft Recognition Criteria distributed
  - September 20 – web based launch meeting
  - September 30 – Comments due
  - Q1 2012 – Final Recognition Criteria
  - Q1 2012 – Effective

# ENERGY STAR Focused on End Use Energy

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- Successful voluntary labeling programs need to meet customer expectations for quality, value and performance
- ENERGY STAR continues to ensure that qualified products
  - Do not require consumers to compromise on performance expectations
    - Computers binned by capability
    - STBs offered adders for enhanced functionality
  - Are top performers
    - Lighting bulbs do not flicker; start up in a reasonable amount of time
    - Vent fans – are quiet
  - Provide overall value

# Recommendations for CE



- EPA commits to referencing existing standards already in the marketplace and welcomes feedback on:
  - Toxicity (ROHS Directive)
  - Design for Recyclability (IEEE 1680.1)
  - Packaging (references Sustainable Packaging Coalition definitions)
- Aim is not to create product differentiation around non-energy requirements
  - Program leverages existing standards and requires a basic level of performance
  - Program will make clear in draft CE/IT specs that it will not require third party certification of non energy requirements
  - Leverage existing infrastructure to ensure compliance

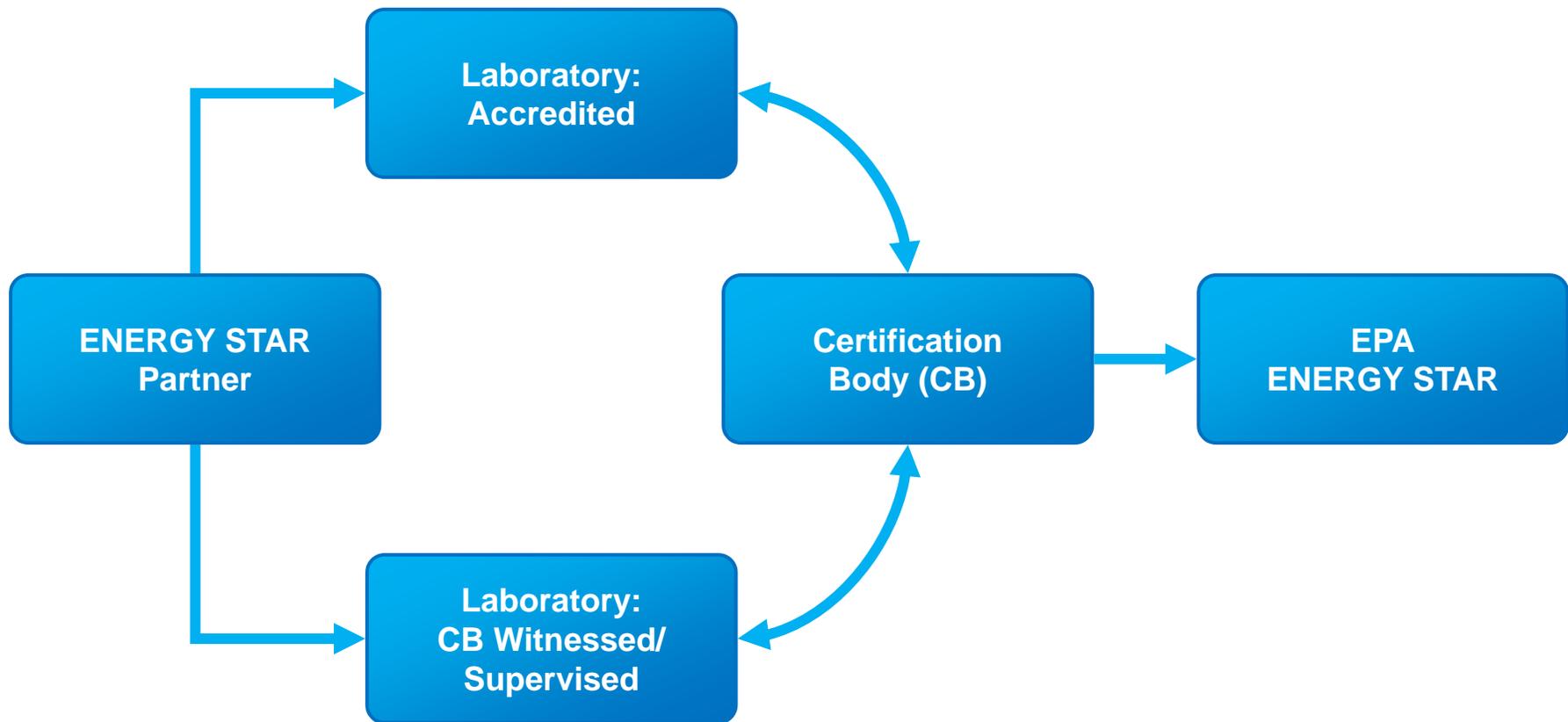
# Third Party Certification

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- Third Party Certification of ENERGY STAR products effective January 1, 2011
- Before a product can be labeled with the ENERGY STAR, performance must be certified by an EPA-recognized third-party based on testing in an EPA-recognized lab
- ENERGY STAR manufacturers must participate in verification testing programs run by the Certification Bodies (CBs).

# Product Qualification Process



# Status of third party certification

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- Market for testing and certification developed
  - Accreditation Bodies: 27
  - Laboratories: 302
  - Certification Bodies: 19
- EPA offering technical assistance to CBs to ensure a smooth transition for certifying products

# Questions / Comments



# Contact Information

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- Katharine Kaplan
  - 202-343-9120
  - [kaplan.katharine@epa.gov](mailto:kaplan.katharine@epa.gov)
- Robert Meyers
  - 202-343-9923
  - [meyers.robert@epa.gov](mailto:meyers.robert@epa.gov)
- Christopher Kent
  - 202-343-9046
  - [kent.christopher@epa.gov](mailto:kent.christopher@epa.gov)
- Verena Radulovic
  - 202-343-9848
  - [radulovic.verena@epa.gov](mailto:radulovic.verena@epa.gov)

# Thank you