

Influencing a Regional Dialogue: Interim Analysis and Findings on Impacting the BCE Market

TUESDAY, JUNE 18TH, 2013

11:00am-12:15pm

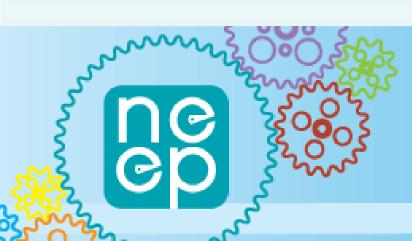
#summit13



June 18 - 19, 2013

Springfield Sheraton Hotel - Springfield, MA

Accelerating Innovation in Efficiency



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AGENDA

11:00 a.m. Review high level BCE research findings and barriers

11:30 a.m. Break into groups to discuss BCE barriers for the Northeast and Mid-Atlantic regions Consolidate feedback from and discuss outcomes of group discussion

12:15 p.m. Food



WHAT ARE WE TRYING TO DO?

- Goal: Keep the Northeast Mid-Atlantic region an energy efficiency leader by reducing the average per household/building energy use from BCEs, focusing on accelerating market adoption of high efficiency electronics and the efficient use of those electronics as key paths to achieve program and state energy efficiency goals.
 - Spur innovation to inform state public policies and provide guidance to program administrators
 - Influence the production, promotion, and sale of BCEs
 - Build multi-state support and consensus for strategy adoption and implementation



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BCE Products

- The Strategy Report and today's Summit discuss the following BCE Products:
 - TVs
 - Desktop Computers
 - Computer Monitors
 - Laptops & Thin Clients
 - Set-Top-Boxes
 - Game Consoles
 - Home Theater (AV Equipment)
 - Home Office & Imaging Devices
 - Tablets, Smartphones, & Phablets
 - Advanced Power Strips



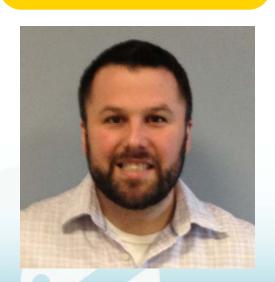
DISCUSSION GROUPS



Teal Group Claire Miziolek



Yellow Group Mark Michalski



CADMUS

Green Group Allison Bard





Research Findings

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BCE Market Forecast

- U.S. sales predicted to grow 4.5% in 2013
- Industry revenue predicted to reach \$215.8 billion in 2013



 Smartphones, tablets, laptops, and networkenabled TVs represented 47% of revenue (2012)



- Annual sales is forecasted to increase by at least 50% by 2016
 - Smart phones, tablets, sound bars, network-enabled digital media players (Roku, Apple), IPTV STBs, OLED TVs





Top 5 – Global Manufacturers

Apple

Dell

Hewlett Packard

Samsung

Sony

Top 5 – U.S. Retailers

Best Buy

Walmart

Amazon.com

Apple Retail Stores

Target

BCE Market Snapshot

Top 5 Internet Retailers*

Amazon.com
Dell
NewEgg.com
HP
Buy.com

Top 5 – U.S. Service Providers

Comcast

DirecTV

Dish Network

Time Warner

Verizon

Top 3 – Regional Retailers

PC Richards & Son

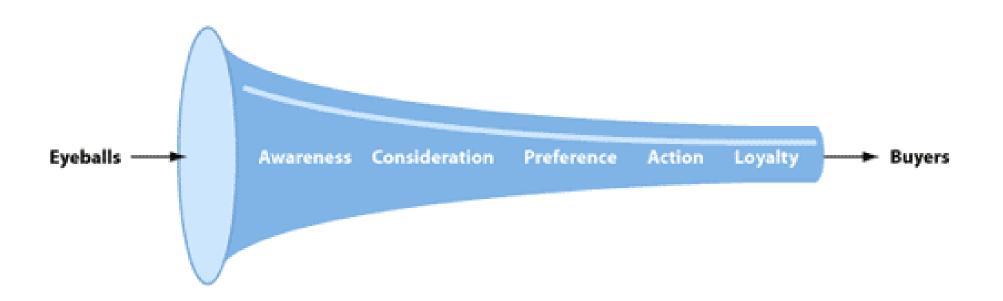
J&R Music and Computer World

Abe's of Maine



Traditional Path to Purchase

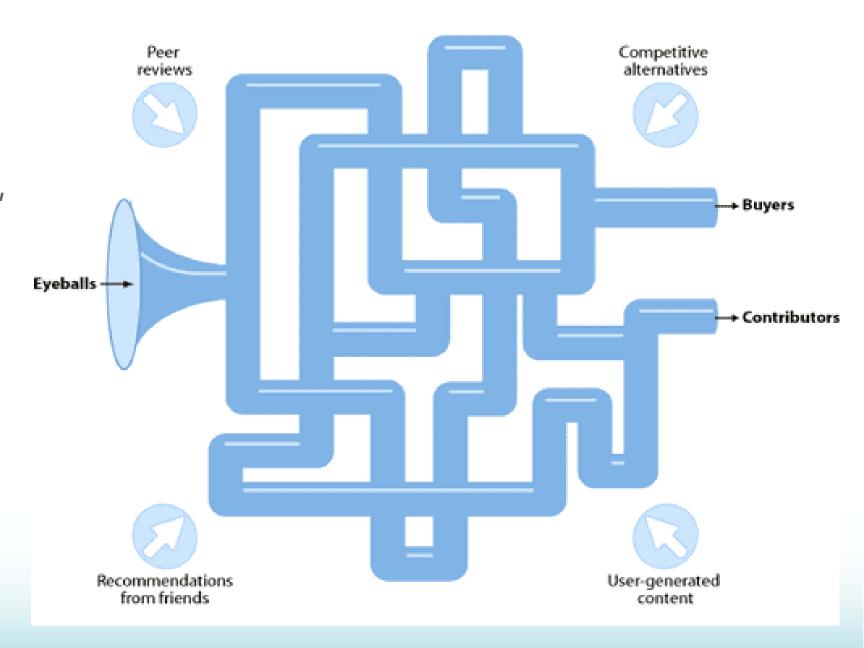
The Traditional Marketing Funnel





Path to Purchase for BCE products

A complex, customer decision-making journey





Low Hanging Fruit has been Picked

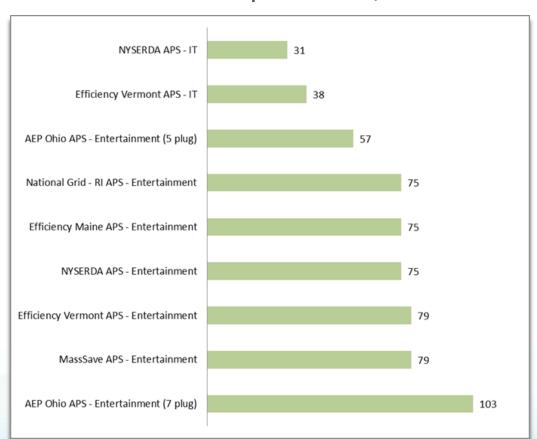
- Televisions, desktop computers, and computer monitors are becoming more challenging to support
- Efficiency gain opportunity for STBs and gaming consoles

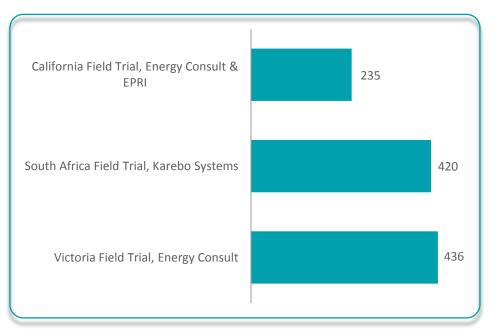
Current Generation Console	Wii	XBOX ONE	& 254.
Efficient?	✓	X	X
Last Generation Console	Wii	XBOX 360.	PlayStation 3
Sales split of three major last generation game consoles	40%	31%	28%

Inefficiency Has Many Faces



 Opportunity to mitigate active power consumption, as well as passive standby consumption with APS for BCE products that are older and not ENERGY STAR-certified (e.g., gaming consoles, AV products)





Active Power Annual Energy Savings



Think Outside the "Box"

 Rethinking use of traditional BCE products such as STBs, televisions, and computers

Old School Idea



672.4 kWh TEC \$114 per year (@ \$0.17/kWh)

New School Thought



71.58 kWh TEC \$12 per year (@ \$0.17/kWh)

Trade-offs:
Access to content



Two Major Trends

Data Access

 Changing the way we work, live, and consume energy



Connectivity

- What is "Smart??"
- Smart BCE Devices are increasing (e.g., 48% own tablets, 66% smartphones)
- The emergence of the "connected home" has foreshadowed the increased importance of TV, tablet, and smartphone

BCE Programs Findings

32 entities supported BCE Programs in 2011 17 entities support BCE Programs currently

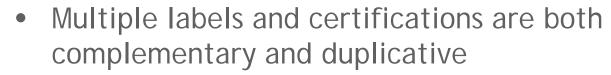
32% decrease in support in two years

- Potential program enhancements could include:
 - Expand focus beyond traditional electronics
 - Address plug load
 - Incentivize new ways of accessing content
 - Consider early-retirement of obsolete electronics
 - Encourage adoption of load disaggregation technologies
 - Partner with R&D to bring new EE products to market

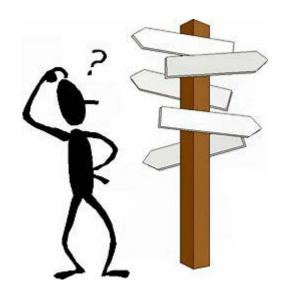




All Quiet on the Policy Front



Coordination is necessary to avoid confusion



- Limited regulation of BCE products
 - STBs, external power supplies, battery chargers and televisions are most regulated
- Potential for emerging performance standards
 - CT and NY looking at TVs and AV products
- Voluntary agreements could replace/augment regulation
 - E.g. DOE voluntary agreement on STBs with service providers and NCTA



Identification of Barriers



Industry

Behavior

BCE Barriers

Program

Policy



Industry Barriers

- Effects of rapid technological advancement and short product life cycle
- Industry focus on functionality
- Impact of limited number of manufacturers for many product categories
- Impact of converging products
- Limited national program administrator collaboration
- Lack of motivation to engage interested energy efficiency stakeholders and advocates (i.e., service providers)



Behavior Barriers

- Lack of awareness about BCE products energy savings opportunity
- Energy efficiency is a low consumer priority
- Complexity in purchase process



Program Barriers

- Diminishing energy savings
- Uncertainty of savings for behavior-related opportunities
- Program attribution
- Increase in integrated devices
- Challenge of promoting multiple certifications and specifications
- Limited consumer benefit with respect to price



Policy Barriers

Feasibility of making an impact due to product life cycle

Challenge regulating global industry



Group Discussion



Discussion Questions

- 1. What other barriers exist?
- 2. Are these barriers applicable to the Northeast and Mid-Atlantic? Are their regional differences that should be noted within the regional or individual states?
- 3. How could these barriers be addressed through available levers of marketing, program design, and policy?
- 4. What are additional potential paths forward to overcome barriers?



THANK YOU!



LUNCH 12:15-1:15 PM