Federal Perspectives on Energy Efficiency:
US EPA's ENERGY STAR Program

Exploratory Meeting: ANSI Energy Efficiency Standards Panel
Twenty Years Ago...

1992 - ENERGY STAR Qualified Computers & Monitors Introduced

2012 - Over 20,000 organizations actively involved
Today

ENERGY STAR promotes energy efficiency in:

- Consumer, commercial & office products
- Homes & Home Improvement
- Commercial & Institutional Buildings
- Industrial Plants

With ENERGY STAR, Americans have:

- Saved nearly $230 billion on utility bills
- Prevented over 1.7 billion metrics tons of GHG emissions
National EE Brand

SOURCE: Fairfield Research, July 2011
Products

- Energy efficiency specifications
- 60 categories
- New verification process that uses ISO 17025 & Guide 65
- ~200 Million ENERGY STAR qualified products purchased in 2010 (US)
- ~3.5 billion products purchased since 2000
- ENERGY STAR used internationally

Almost 3.5 Billion ENERGY STAR Qualified Products Purchased Since 2000

*Lighting category does not include purchases of compact fluorescent bulbs.
Products Priorities

- Maintaining strong brand.
- Increasing reviews / updates to ENERGY STAR criteria to 2 - 3 years depending on product category and market conditions.
- Overseeing verification (post-market) testing in all product categories.
- Developing new specs for targeted products.
- Exploring “Most Efficient”
Homes Program

- ENERGY STAR began certifying new homes in 1995
- 1.3 million ENERGY STAR certified homes built to-date – ~127,000 in 2011 alone
- New ‘Version 3’ program requirements became effective on January 1, 2012
Home & Residential Priorities

- Maintain and increase ENERGY STAR partner base for new homes program (builders, raters, sponsoring utilities)

- Reinforce the quality, durability, and comfort benefits of the new v3 program requirements

- Provide technical and marketing support for ENERGY STAR partners implementing v3

- Provide homeowners with unbiased information and tools to help them improve efficiency of their existing homes.

2010 Market Share for ENERGY STAR Certified Homes by State
Commercial & Intuitional Buildings

- Promoting whole building energy performance since 1995.
- 15 Building Energy Performance Ratings.
- 17,000+ Certified Buildings.
- 250,000+ buildings tracked & benchmarked in Portfolio Manager.
- Portfolio Manager widely adopted & referenced.
Industrial Plants & Sites

- Working with industrial sectors & manufacturers since 2000.
- 24 Industrial Focuses & over 700 corporations involved.
- 10 Industrial Plant Energy Performance Ratings
- 111 Certified Plants.
- Over 500 Plants taken ENERGY STAR Challenge for Industry
Commercial & Industrial Priorities

- Continue to promote energy management best practices.
- Expand performance ratings and updating existing ratings.
- Expand Portfolio Manager capabilities.
- Provide resources to integrate energy efficiency into organizational culture.
- Inspire & empower people to take action.

ENERGY STAR Guidelines for Energy Management
Summary

- Make saving energy an automatic feature of rapidly evolving new technologies and building systems
- Preserve high quality performance—critical for both consumer and environmental benefits
- Maintain ENERGY STAR as credible source for energy savings information for homes and businesses
- Capture new products and more buildings & plant types.
- Explore international coordination in new areas.
- Support state and local policies and programs.
- Empowering people to make informed and easy choices that protect the environment.
Involvement with Standards

• ENERGY STAR references or incorporates standards when possible:
  – ENERGY STAR HVAC Quality Installation program requirements mirror ANSI /ACCA QI 5

• ENERGY STAR consulted ANSI to establish a process for third party certification for ENERGY STAR qualified products.

• ENERGY STAR Homes Program is supportive RESNET work to develop ANSI approved Home Rating Standards.

• ENERGY STAR participates on the ANSI led US TAG for TC 242 (ISO 50001) related to energy management standards and sub-parts.