Super Efficient Dryer Initiative

ENERGY STAR Partners Meeting
November 10, 2011
Charlotte, NC
Agenda:

– Introduction and Background
– Status Reports
  • Standards and Labeling Programs
  • Clothes Dryer Industry
  • Energy Efficiency Program Providers
  • Clothes Dryer Research
– Proposed SEDI Road Map
2011 SEDI Milestones

JULY
- SEDI Partnership with CLASP

SEP
- CLASP Industry Stakeholder Meeting

OCT
- SEDI Core Stakeholder Meeting

NOV
- ENERGY STAR Partner Meeting
Standards & Labeling

Recent Activity:

- DOE finalizes a new federal clothes dryer standard and test procedure
- DOE publishes a request for information on a proposed amendment to the federal test procedure
- ENERGY STAR announces Heat Pump Clothes Dryers for the 2012 Emerging Technology Award
- ENERGY STAR engages in scoping activity for a clothes dryer label
- Canadian Standards Association initiates test procedure development activity
Standards and Labeling

Timeline of Future Activity:

2013 2014 2015 2016 2019 2022

- Revised federal test procedure
- New federal standard and test procedure takes effect
- DOE initiates revision to federal standard and test procedure
- New federal standard and test procedure takes effect

ENERGY STAR
2012 Emerging Technology Award

ENERGY STAR labeling program for clothes dryers
Industry

2011 Interviews with Manufacturers:

– SEDI has held private meetings with:
  • Arcelik
  • Bosch Siemens
  • LG
  • Miele
  • Samsung
  • Whirlpool

– Pursuing meetings with others over the next month
Program Providers

SEDI Stakeholder 2012 Program Support:

[Logos of New Jersey’s Clean Energy Program, nyserda, nationalgrid, and Efficiency Vermont]
Program Providers

Continued Support from the New Jersey Clean Energy Program:

– 2012 Residential EE Program Filing *(Pending)*
  “Continue its leadership role in SEDI by supporting these manufacturers and providing upstream incentives for field testing heat pump clothes dryers in New Jersey.”

– Potential Impact of Super Efficient Clothes Dryers on Fiscal and Energy Savings in New Jersey:
  - 1.1M NJ households use electric dryers
  - Annual electric load of **705 GWh**
  - Annual replacement of 86,000 electric dryers
  - Potential annual savings of **17,000 MWh**
  - Annual savings of **$2.8M** for NJ ratepayers
Technical Research

New Technical Research:

– NEEA field study

– Ecova clothes dryer testing
  • Test full compliance with 3 DOE test versions
  • European heat pump clothes dryers
  • Conventional North American clothes dryers
  • Prototype ETA winner (possible)
Technical Research

Additional Research Needs:
1. Expand samples sizes for both European heat pump and North American conventional dryers
2. Expand clothes dryer testing
3. Expand NEEA field research
4. Research the HVAC impact of clothes dryers

Other EEPS research needs?
Proposed SEDI Road Map

• Goals
  – Define path from no label and no efficient products to ENERGY STAR label on super efficient products
  – Significant market share for ENERGY STAR labeled clothes dryers
Projected Changes
ENERGY STAR for Clothes Dryer Requirements and Market Share

- Emerging Technology Award
- ENERGY STAR Most Efficient or 2nd Step
- ENERGY STAR 1st Step
- ENERGY STAR

Efficiency Improvement

2012 2016 2020

ENERGY STAR Market Share

Efficiency Improvement
**SEDI Objectives:**

- One or more dryers qualify for the ENERGY STAR Emerging Technology Award, available in major markets
- EE programs offer significant incentives for Emerging Technology Award models
- High profile marketing support
- Develop ENERGY STAR labeling program
- DOE test procedure improved
- CSA adopt harmonized specs and standards
# SEDI 2012-2013 Road Map

## SEDI Activities:

### SEDI Core Stakeholders:
- Budget substantial incentives for ETA winners
- Provide marketing support
- Budget contributions to SEDI activities
- Budget funds for additional research

### SEDI Team:
- Coordinate marketing for Emerging Technology Award winners
- Participate in US and Canadian specifications/standards processes
- Recruit additional core stakeholders
- Support EE provider cost/benefit analysis
- Report on research
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