

# **ENERGY STAR®** for Windows, Doors, and Skylights

# Program Update for NFRC Fall Committee Week

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### **Program Update Topics**

- 1) ENERGY STAR Version 6 Reminders
- 2) IVP Reminders
- 3) Most Efficient 2016 for Windows
- 4) December 2014 Stakeholder Meeting Feedback
- 5) U.S. / Canada ENERGY STAR Alignment
- 6) Storm Panels and ENERGY STAR
- 7) Next Steps on ENERGY STAR WDS Criteria
- 8) Upcoming Program Milestones





#### **ENERGY STAR Version 6**

#### As of Jan 1, 2015:

- Doors and Skylight criteria fully implemented
- NC, SC, and S window criteria implemented
- Installation instruction criteria implemented
- Air leakage criteria implemented
- Updated product labeling criteria implemented

#### On Jan 1, 2016:

Northern Zone Criteria will be implemented





## **Verification Testing (IVP)**

#### **Program reminders:**

- NFRC is testing 10% of ENERGY STAR product lines in 2015
  - Please keep ENERGY STAR product line selections up-to-date
- NFRC reports manufacturers to EPA for certain nonperformance related issues:
  - ENERGY STAR label must be placed on all products according the program requirements
  - Installation instructions must be readily available
  - Manufacturers must respond to NFRC requests in a timely manner





#### **Most Efficient 2016 for Windows**

Most Efficient criteria will remain unchanged in 2016

Climate Zone	U-factor	SHGC
Northern	≤0.20	≥0.20
North-Central	≤0.20	≤0.40
South-Central	≤0.20	≤0.25
Southern	≤0.20	≤0.25

- Full criteria found at: <a href="www.energystar.gov/mostefficient">www.energystar.gov/mostefficient</a>
- EPA is working with DOE to consider criteria for products with automated dynamic glazing beginning in 2017





#### Stakeholder Feedback

- Following the December 2014 meeting, EPA received written feedback from 12 industry stakeholders
  - This feedback is published on the ENERGY STAR website
  - Key issues raised by stakeholders outlined on the next slide
- EPA remains committed to collaboration with industry and transparency in the program, including criteria revisions
- EPA encourages stakeholders to stay involved in the process and keep an open dialogue with program staff





#### Stakeholder Feedback

#### **Some Common Points:**

- 1) Encourage a transparent and predictable criteria revision cycle
- Collaborate with industry to collect market data
- 3) Emphasize cost-effectiveness for new specifications
- 4) Focus on replacement of poor-performing single-pane windows
- 5) Consider a lower U-factor in the Northern Zone
- 6) Harmonize specifications with Canada
- 7) Consider a specification for Low-E Storm Panels





### **U.S. / Canada ENERGY STAR Alignment**

- EPA and Natural Resources Canada (NRCan) have met to discuss the possibility of aligning the U.S. and Canadian ENERGY STAR specifications
- The Canadian program differs from U.S. program in key ways:
  - Different performance and labeling criteria
  - Different climate zone definitions
  - Use of Energy Rating (E<sub>R</sub>) metric
  - Air Leakage testing based on infiltration and ex-filtration
  - Product certification available through Canadian CBs
- EPA and NRCan will continue to work together to address program gaps and propose solutions





#### **Storm Panels and ENERGY STAR**

- Preliminary Pacific Northwest National Laboratories (PNNL)
  research indicates that significant energy savings could be
  achieved through expanded purchasing of low-e storm panels
- Storm panels do not currently have a rating system
  - The Attachments Energy Rating Council (AERC) has begun developing a rating and certification program
- EPA is developing a Framework Document to explore a possible ENERGY STAR specification for storm panels
  - Framework Document will not propose criteria, but will present issues for consideration and stakeholder comment
  - Expected publication: Late 2015 or early 2016
- Possible Draft 1 Criteria by Mid 2016





#### **Next Steps on ENERGY STAR WDS Criteria**

- EPA plans to publish a Framework Document for Windows, Doors and Skylights (WDS) Version 7.0 in Spring 2016
  - Framework Document will not propose criteria, but will present methodology, sources and other issues for consideration and stakeholder comment
- EPA will conduct technical and market research in 2016-2017
  - Technical advancement and available products
  - Market Penetration
  - Costs and energy savings
  - Updated codes and standards
- If research indicates a revision is needed, Draft 1 of Version
   7.0 Criteria would be proposed in 2017, at the earliest





# **Upcoming Program Milestones**

Milestone	Expected Date	
Storm Panels Framework Document	Late 2015	
WDS Version 6.0 Northern Zone Effective Date	January 1, 2016	
WDS Version 7.0 Framework Document	Spring 2016	
Storm Panels Draft 1	Mid 2016	
EPA Market Research on WDS	2016 – 2017	
Possible WDS Version 7.0 Draft 1	Spring or Summer 2017 (earliest)	





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**General ENERGY STAR Fenestration Questions** 

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