

December 12, 2014

## **ENERGY STAR for Windows, Doors, and Skylights Industry Stakeholders Meeting**

### **Issues for Discussion Handout**

The discussion questions listed below were included in the Industry Stakeholders Meeting presentation on December 12, 2014. These questions are intended to highlight topics that are of particular importance to the ENERGY STAR for Windows, Doors, and Skylights program, including future specification revisions. The feedback that stakeholders provide on these questions, along with feedback on any other issues of interest to stakeholders, will be used to help EPA draft a Framework Document.

### ***Specification Revision Process***

How can EPA improve the overall process of future specification revisions for windows, doors, and skylights? Specifically, how can EPA encourage greater industry participation and collaboration, make the process clearer and more predictable, and enhance the transparency of the analysis and decision making process?

How can EPA strike the best balance between analytical transparency and maintaining the confidentiality of proprietary data?

What are the best sources of information for monitoring the market to determine when to review a specification for potential revision?

Should EPA consider sunseting the ENERGY STAR specifications for any window, door, or skylight categories?

### *National Energy Savings*

What changes to the specifications should EPA consider in the future to realize significant national energy savings? For example, EPA may consider changes to U-factor criteria, SHGC criteria, equivalent energy tradeoffs, air leakage criteria, climate zone boundaries, and other product attributes and program requirements.

What new and emerging technologies and products should EPA pay attention to for future specification revisions?

What are the best sources for market data, including product shipments and market penetration?

What baseline product performance should EPA use when calculating calculate energy savings?

What assumptions should EPA make about household characteristics when calculating energy savings?

### *Maintaining Product Performance*

What non-energy attributes are important to consumers? Are any of these attributes compromised by improved energy efficiency? Should EPA consider including additional non-energy attributes in the specification to maintain product performance?

How should EPA measure and evaluate the non-energy performance of products?

Are there any subcategories of fenestration products that have special features or functionalities that make it more difficult to meet higher efficiency levels?

### *Cost-Effectiveness*

How can EPA encourage more manufacturers to submit product cost data?

In what format could your company provide product cost data? Format examples include: incremental costs to reach different performances, full costs for complete product configurations, cost per square foot, component costs, etc.

Is a component analysis a good way to determine the incremental cost of improved energy efficiency? What factors should EPA consider when identifying component configurations or estimating component costs, manufacturing costs, and mark-ups? What sources should EPA use for the analysis?

What factors should EPA consider when collecting product cost data from retailers and distributors?

What is a reasonable payback period for fenestration products? For example, should EPA consider a reasonable payback period to be within an average product lifetime, a typical warranty period, the average number of years consumers stay in their homes, or some other consumer preference? Should EPA consider the resale value of the products when calculating payback? What sources can be used to support these assumptions?

### *Product Availability*

How can EPA develop a reasonable proxy of products available for sale? Potential options include, but are not limited to: research of products available online, filtering the Certified Products Directory (CPD), or requiring the partners report on the ENERGY STAR options they offer.

Would filtering the Certified Products Directory (CPD) provide a reasonable proxy for availability? Potential filtering methods include: A) only including options from product lines that are designated as ENERGY STAR for the Independent Verification Program (IVP); B) only including performance-related variations within product lines; C) only including options that manufacturers voluntarily indicate are available.

### *Measurement and Verification*

How can EPA improve verification testing for fenestration products?

How should the performance of dynamic products be measured and verified?

### *Market Differentiation*

Does ENERGY STAR effectively differentiate the top performers in the market?