

# Workshop to Identify Strategies to Get to Net Zero Energy Homes

September 14, 2011 • National Institute of Standards & Technology • Gaithersburg, MD

Sponsored by the NIST Engineering Laboratory



## AGENDA ~ Wednesday, September 14, 2011

Time	Activity
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### Portrait Room, NIST Administration Building

7:30 am	<b>Registration and Continental Breakfast</b>
8:30 am	<b>Welcome and Workshop Purpose</b> ~ Nancy McNabb, NIST
8:40 am	<p><b>Plenary Presentations</b>                      Perspectives on the current standards environment for residential energy efficient building design</p> <ul style="list-style-type: none"> <li>➤ <b>NZE Residential Buildings Overview</b> ~ Harvey Sachs, ACEEE</li> <li>➤ <b>Regulatory Environment</b> ~ Sam Rashkin, DOE</li> <li>➤ <b>90.2/189.1/Advanced Energy Design Guides</b> ~ Merle McBride, ASHRAE</li> <li>➤ <b>IECC/IgCC</b> ~ David Karmol, ICC</li> <li>➤ <b>ICC 700/National Green Building Standard</b> ~ Thomas Kenney, NAHB-RC</li> <li>➤ <b>LEED for Homes</b> ~ Asa Foss, USGBC</li> <li>➤ <b>IAPMO GP&amp;MCS</b> ~ Peter DeMarco, IAPMO</li> </ul>
9: 50 am	<b>Break</b>
10:00 am	<p><b>Plenary Presentations</b> (continued)</p> <ul style="list-style-type: none"> <li>➤ <b>International Landscape</b> ~ Anthony Quinn, ASTM</li> <li>➤ <b>NZE Communities</b> ~ Tom Liebel, AIA</li> <li>➤ <b>Behavioral Perspective</b> ~ Karen Ehrhardt-Martinez, University of Colorado</li> </ul> <p><b>Q&amp;A</b></p>
10:45 am	<p><b>Organize for Concurrent Breakout Sessions</b></p> <ul style="list-style-type: none"> <li>➤ <b>Introduction of process, session reporters, and facilitators</b> ~ Joan Pellegrino, Energetics</li> </ul>
10:50 am	<b>Move to Assigned Breakouts</b>

<b>Design Challenges &amp; Tools</b>	<b>Portrait Room</b>
<b>Technology &amp; Equipment</b>	<b>Lecture Room C</b>
<b>Owner Needs and Behavior</b>	<b>Lecture Room D</b>

10:55 am	<p><b><u>Breakout Round 1: What does the NZE home look like?</u></b></p> <p>Brainstorm future characteristics of NZE homes that are transformative compared to today's residential built environment. <b>Outcome:</b> Vision for the future</p>
12:00 pm	<p><b><u>Breakout Round 2: Broad challenges and barriers</u></b></p> <p>Identify the challenges and barriers to design and construction of NZE or "net-zero ready" homes. <b>Outcome:</b> Prioritized list of challenges/barriers to development and use of NZE design and construction practices for homes</p>

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<b>NIST Cafeteria</b>	
12:30 pm	<b>Lunch (1 hour) ~ on your own</b>
<b>Return Promptly to Assigned Breakouts</b>	
1:30 pm	<b>Breakout Round 3: Key characteristics of NZE design and construction</b> Assemble a list of areas where a guidance document/tool would influence NZE home design and construction, including behavioral aspects. <b>Outcome:</b> Prioritized list of voluntary guidelines that can influence design/construction aspects for net-zero energy homes; what is most feasible in the near term
	<b>Flexible Break</b> (groups break as needed)
2:30 pm	<b>Breakout Round 4: Priority elements of the NZE home guidance framework</b> Develop elements for the top 10 design, construction, operation, and maintenance aspects. <b>Outcome:</b> Worksheets completed for the top 10 NZE home elements to define the basic framework of the guidance document
3:45 pm	<b>Prepare Group Session Highlight Reports</b>
<b>Portrait Room, NIST Administration Building</b>	
4:00 pm	<b>Closing Plenary</b> <ul style="list-style-type: none"><li>➤ <b>Breakout Group Reports</b></li><li>➤ <b>Final comments, next steps</b></li></ul>
4:45 pm	<b>Workshop Adjourns</b>