

Building Science Symposium 2012 U.S. DEPARTMENT OF **ENERGY** Energy Efficiency & Renewable Energy

Building America Research Results
Faster, Easier, Better

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Building Technologies Program
July 31, 2012

Why Building America U.S. DEPARTMENT OF **ENERGY** Energy Efficiency & Renewable Energy

Residential Sector Accounts for more than 20% of all U.S. Energy Consumption

U.S. Energy Consumption

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Why Building America U.S. DEPARTMENT OF **ENERGY** Energy Efficiency & Renewable Energy

Housing Sector Percent of GNP
Source: NAHB data through Q1 2012

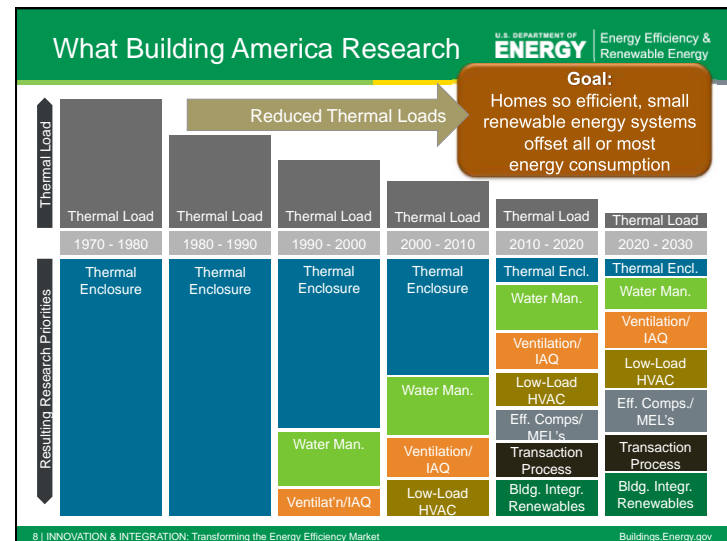
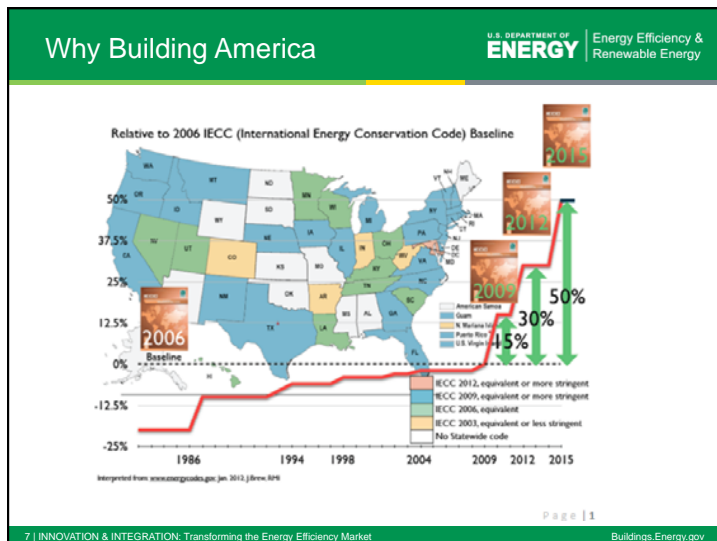
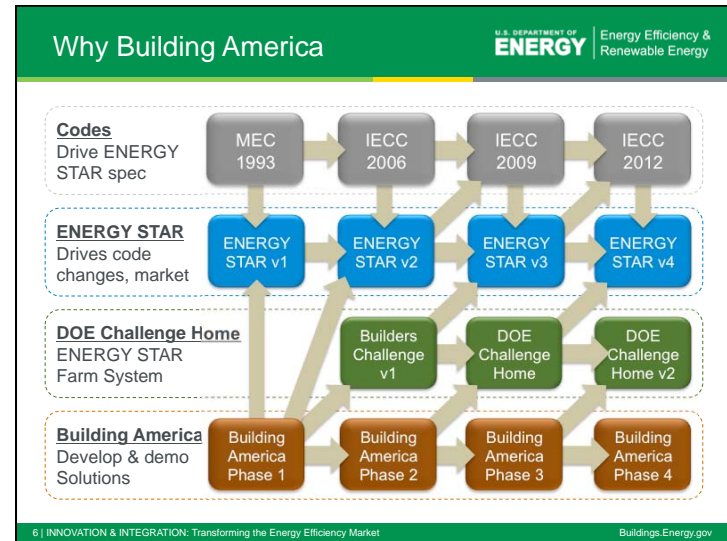
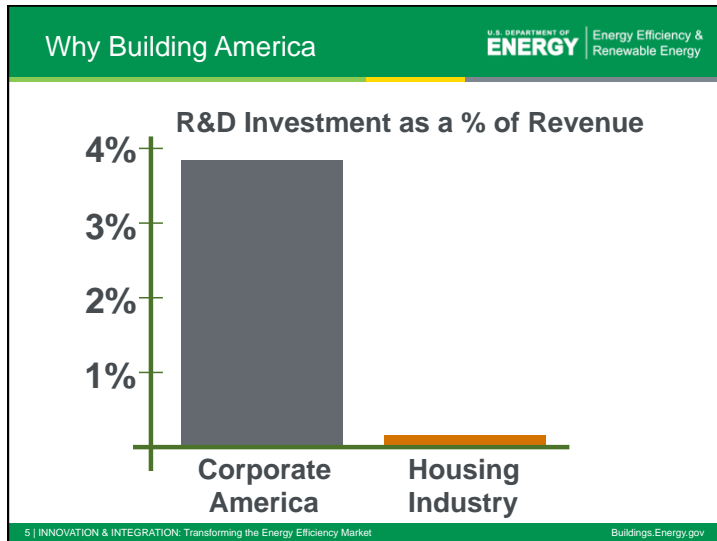
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Number of Producers

Typical Industry vs. Housing Industry

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How to Disseminate BA Results U.S. DEPARTMENT OF ENERGY Energy Efficiency & Renewable Energy

Building America Solution Center

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What is BA Solution Center U.S. DEPARTMENT OF ENERGY Energy Efficiency & Renewable Energy

World Class Research...
at Your Finger Tips



Immediate Access vs.
Black Hole

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What Solution Center 'Is' & 'Is Not' U.S. DEPARTMENT OF ENERGY Energy Efficiency & Renewable Energy

Is:

Easy Access to World-Class Research:

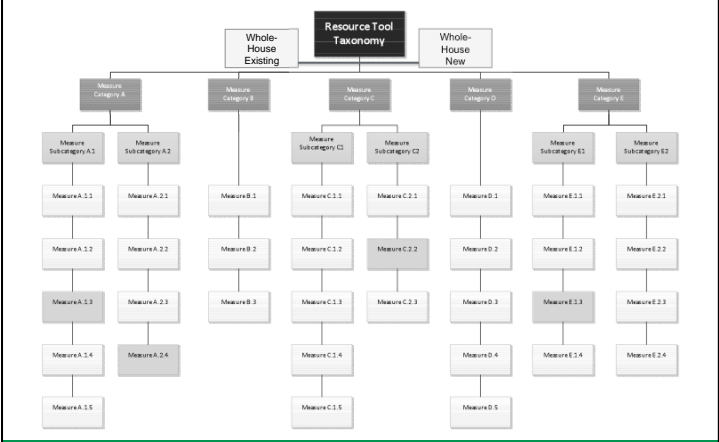
- Guidance for Applying Targeted Energy Measures
- Tool for Preparing Customized Project Content
- Source for Proven Performance
- Link to Full References

Is Not:

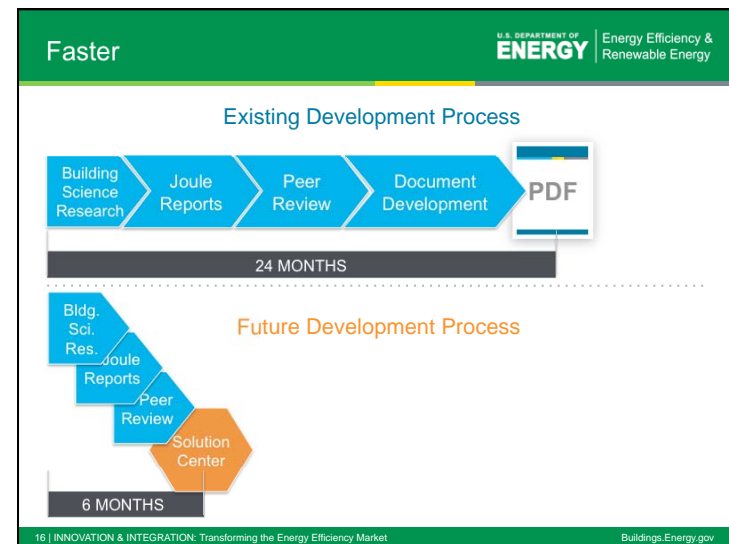
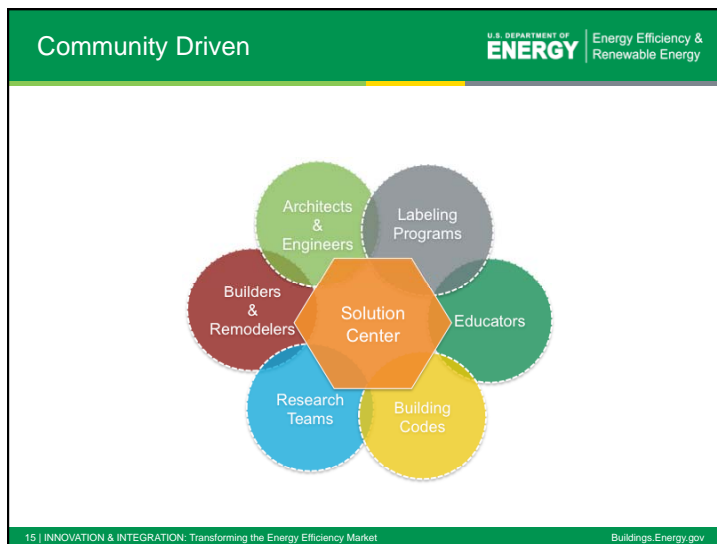
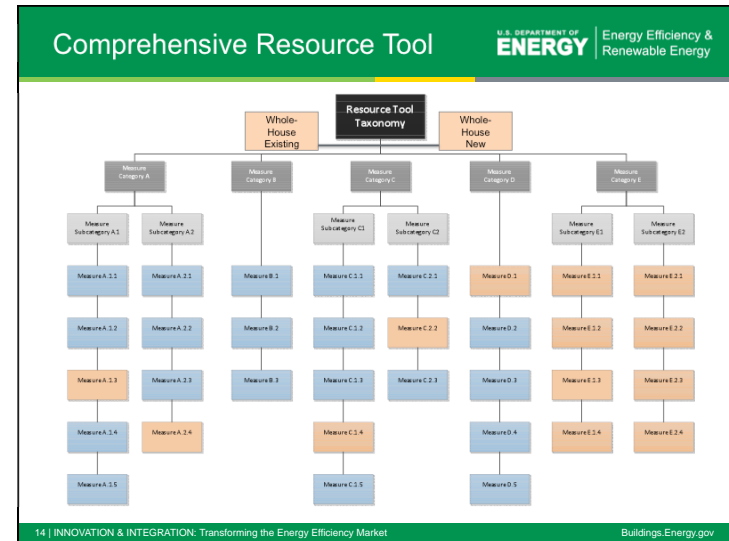
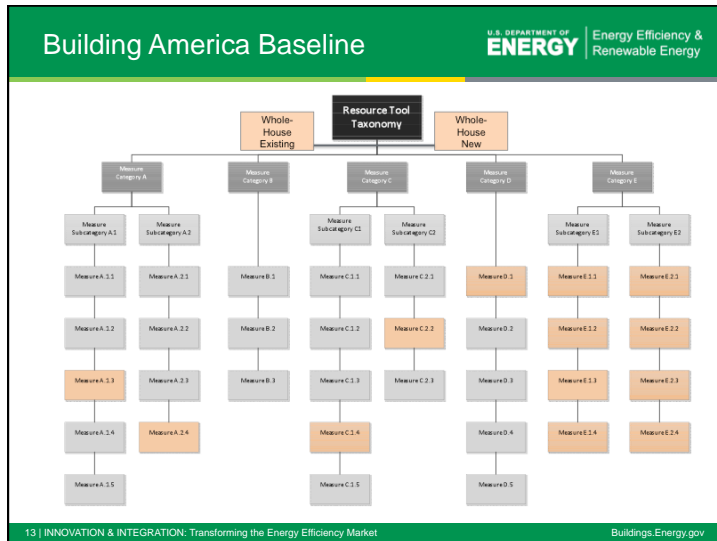
- Design Tool for Customized Energy Packages

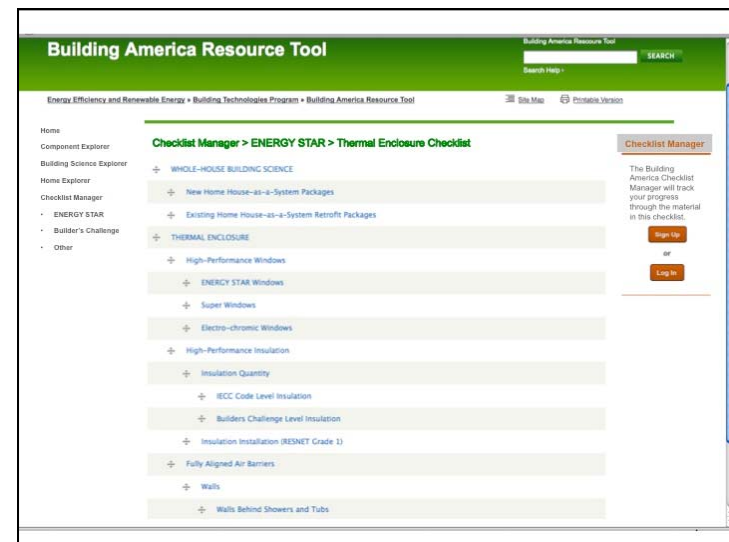
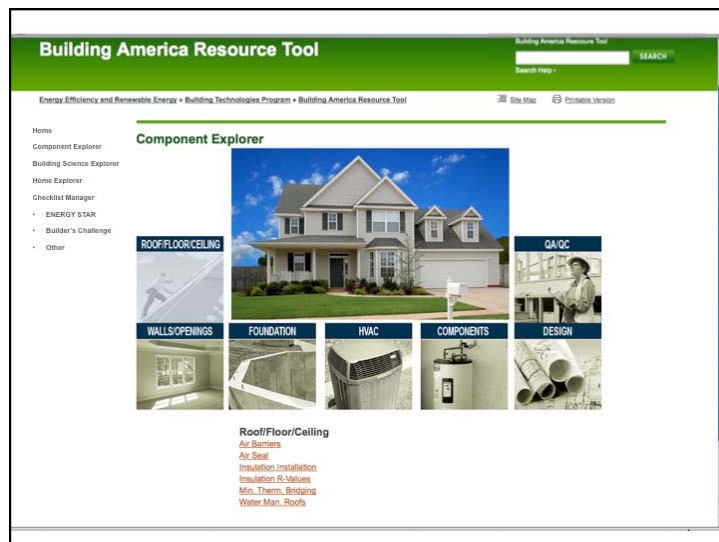
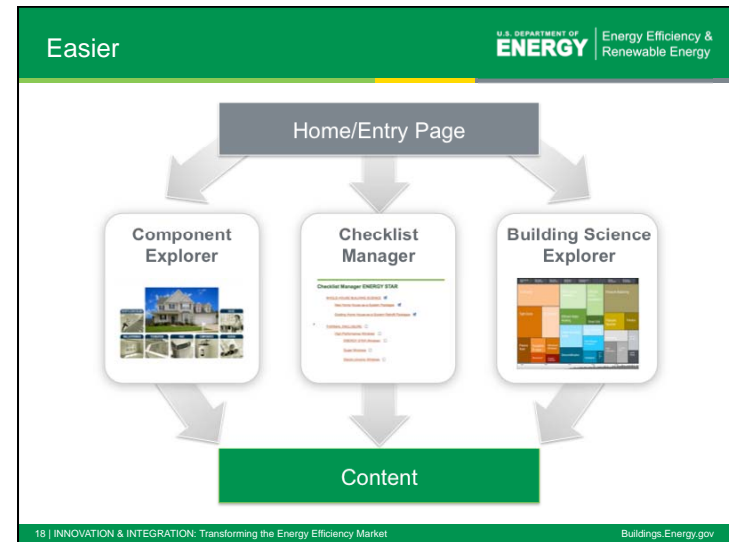
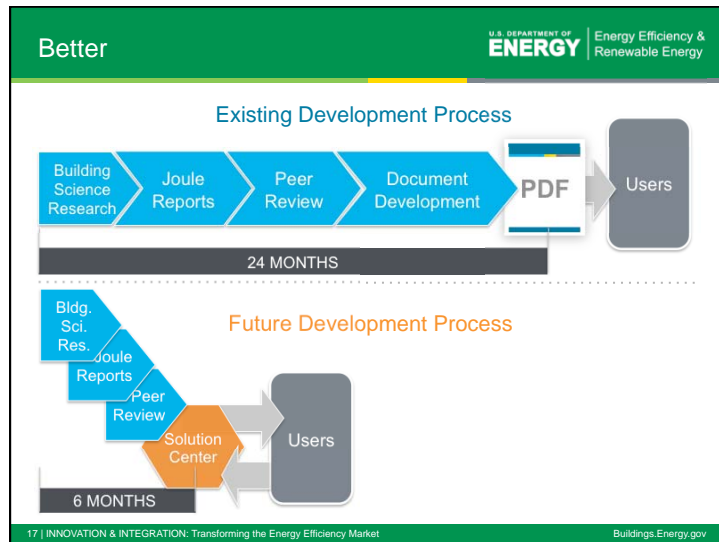
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High Performance Home Dewey Decimal System U.S. DEPARTMENT OF ENERGY Energy Efficiency & Renewable Energy



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Building Science Explorer U.S. DEPARTMENT OF ENERGY Energy Efficiency & Renewable Energy

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Better U.S. DEPARTMENT OF ENERGY Energy Efficiency & Renewable Energy

Scope

- Ensuring Success
- Climate Specific
- Description
- Right/Wrong Images
- CAD Drawings
- Compliance
- Case Studies
- References
- Training
- Resources

Scope

Tells a contractor how the measure could be described in contract documents.

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Ensuring Success

Gives interrelated whole-house health, safety, durability, and performance issues.

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Definitions U.S. DEPARTMENT OF ENERGY Energy Efficiency & Renewable Energy

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Climate Specific

Provides climate-specific guidance.

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Description

Provides 1) an overall explanation of the measure and 2) specific "how-to" steps and graphics.

Attic living space, Seal, Headboard, Seal

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Right/Wrong Images

Shows photographs of how the measures are correctly applied and incorrectly applied.

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CAD Drawings

Displays the drawings and provides dwg and pdf files.

Green Building Advisor. 2011. "Air sealing behind tub with thin profile sheathing." Green Building Advisor, Newtown, Connecticut. Available at <http://www.greenbuildingadvisor.com/cad/detail/air-sealing-behind-tub-thin-profile-sheathing>.

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Compliance

Summarizes the criteria to meet the Builders Challenge Quality Criteria, ENERGY STAR Version 3 (Rev. 04), 2009 IECC, 2012 IECC, and/or the standard (e.g., ANSI, ASHRAE).

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Case Studies

Gives whole-house proven performance or measure specific real-world stories.

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References

Provides a compilation of the complete references for the content.

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Training

Gives links to government-sponsored videos and presentations related to this topic.

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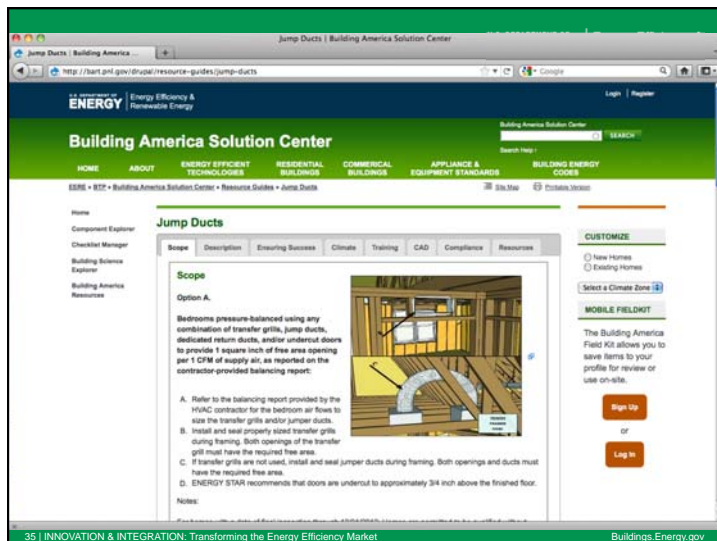
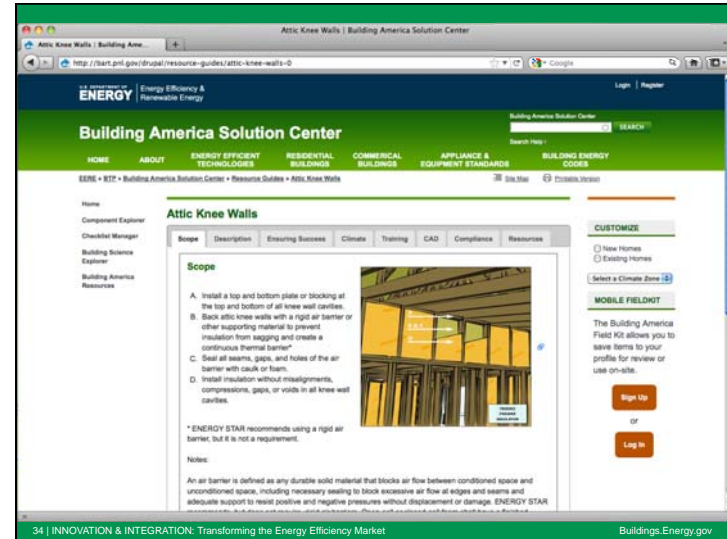
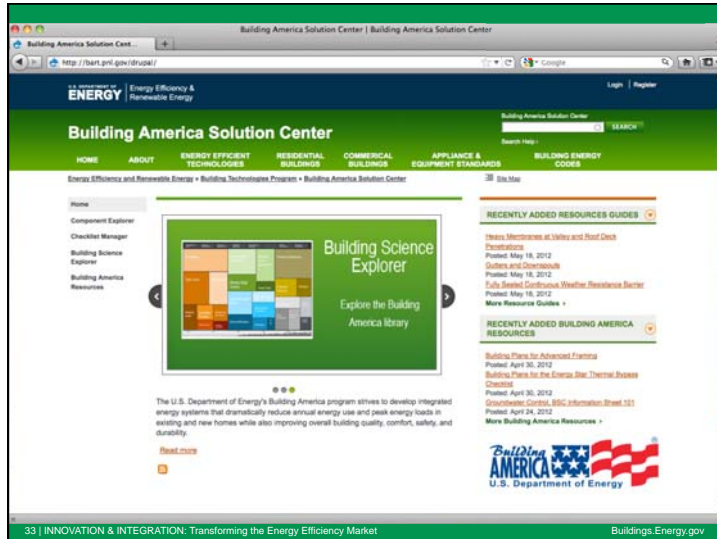
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Resources

Provides links to building science resources (not previously cited).

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Schedule

9/12: Beta Version

12/12: Launch BA Solution Center

Ongoing: Continuous Improvement

Building America Solution Center is a work in progress.

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You Are Our Community

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- Provide Feedback
- Submit Content
- Promote Tool

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Thank You

Questions?

For More Information:
<http://www1.eere.energy.gov/buildings/>

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