



Building America

High Performance Enclosure Strategies: Part I, Existing Homes

May 21, 2014

Moderator:

Mike Gestwick- National Renewable Energy Laboratory

Panelists:

Tom Schirber – University of Minnesota

Steve Schirber – Cocoon Insulation

Anastasia Herk – IBACOS

Duncan Prah – IBACOS

Some Housekeeping Items

Two Options for Audio (select audio mode):

1. Listen through your computer.

Please select the “mic and speakers” radio button on the right hand audio pane display

2. Listen by telephone.

Please select the “telephone” option in the right-hand display, and a phone number and PIN will display.

3. Panelists - Please mute your audio device when not presenting

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Some Housekeeping Items (cont'd)

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Having trouble viewing the webinar:

- **A video/audio recording of this Webinar and the slide decks will be made available after the webinar at:**
<http://energy.gov/eere/buildings/building-america-meetings#current>

Agenda

- ✓ Welcome and Introductory Remarks
- ✓ Overview of Building America (buildingamerica.gov)
 - Mike Gestwick: National Renewable Energy Laboratory
- ✓ Presentations
 - Tom Schirber: University of Minnesota
 - Steve Schirber: Cocoon Insulation
 - Anastasia Herk: IBACOS
- ✓ Questions and Answers
 - Duncan Prah: IBACOS
- ✓ Closing Remarks
- ✓ Survey

Overview of Building America



Who Are We?



What do we do?



*Recognizing Top Innovations
in Building Science*



Solution Center

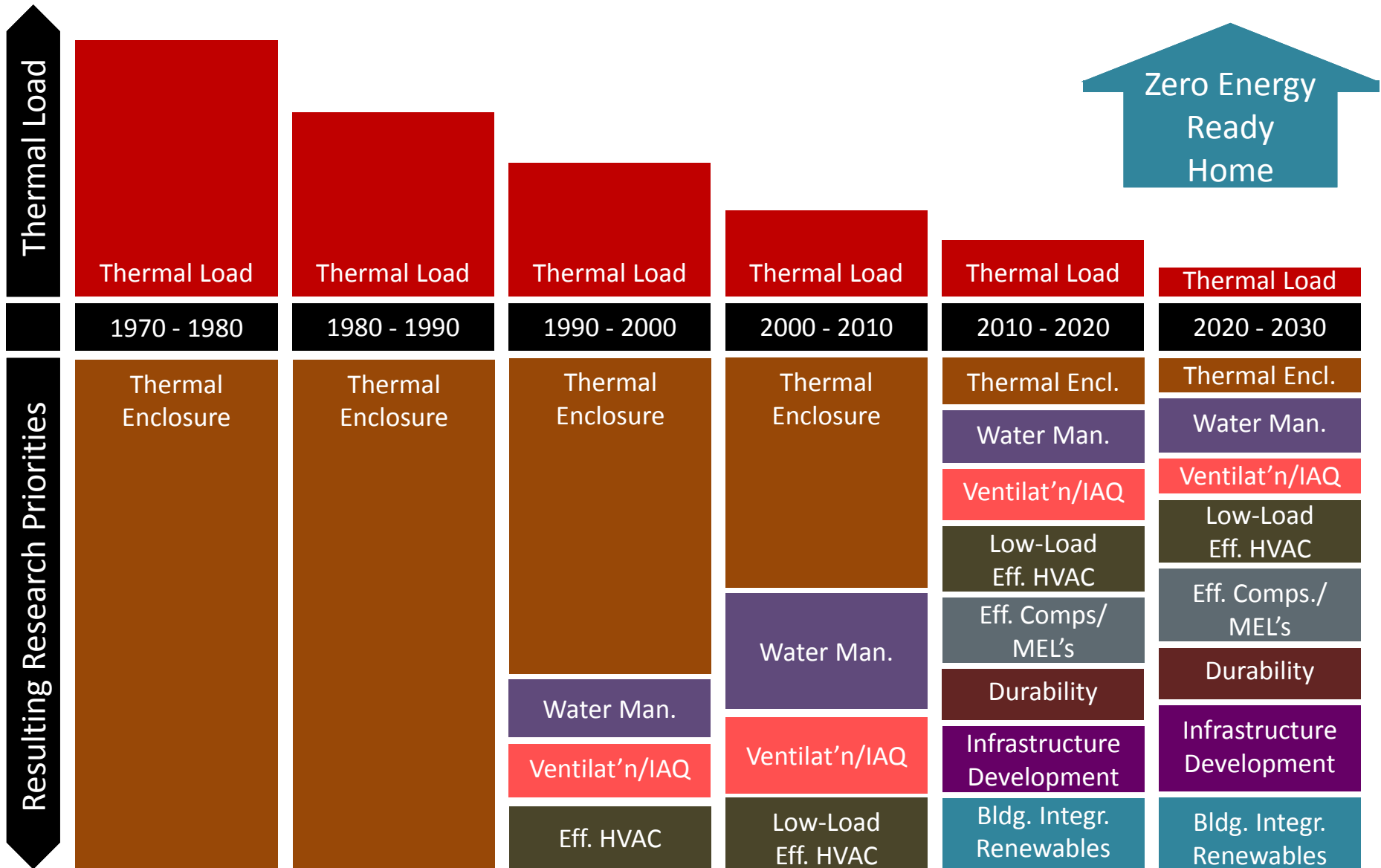


Building Energy
Optimization (BEopt)



Market Partnerships

What are we researching?



What are we achieving?

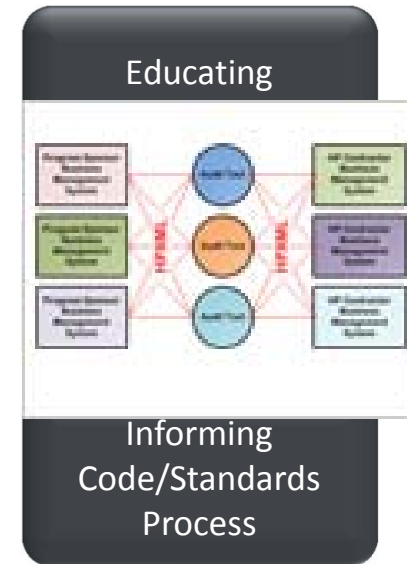
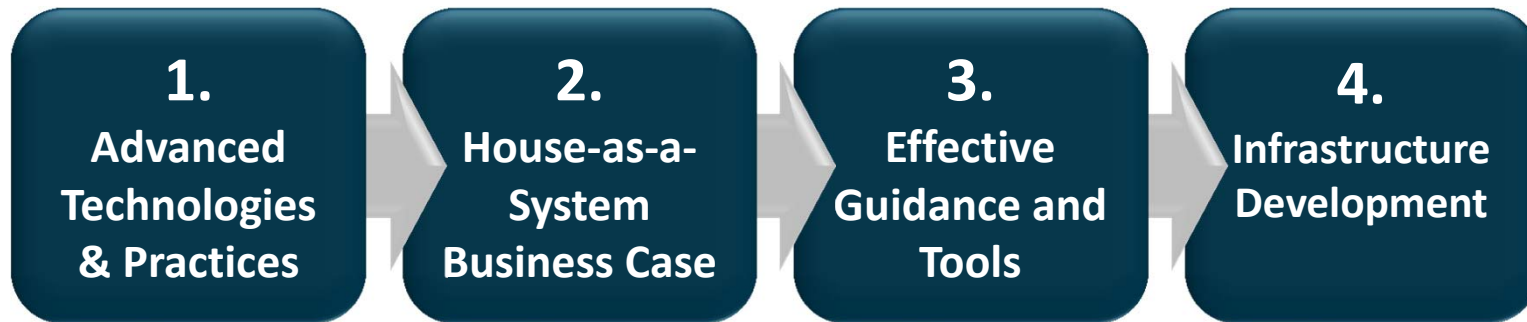
Ultra-High Efficiency + **High-Performance**

- Enclosure
- Low-Load HVAC
- Components

- Affordable
- Comfort
- Health
- Durability
- Renewable Readiness
- Water Conservation
- Disaster Resistance

What are we achieving?

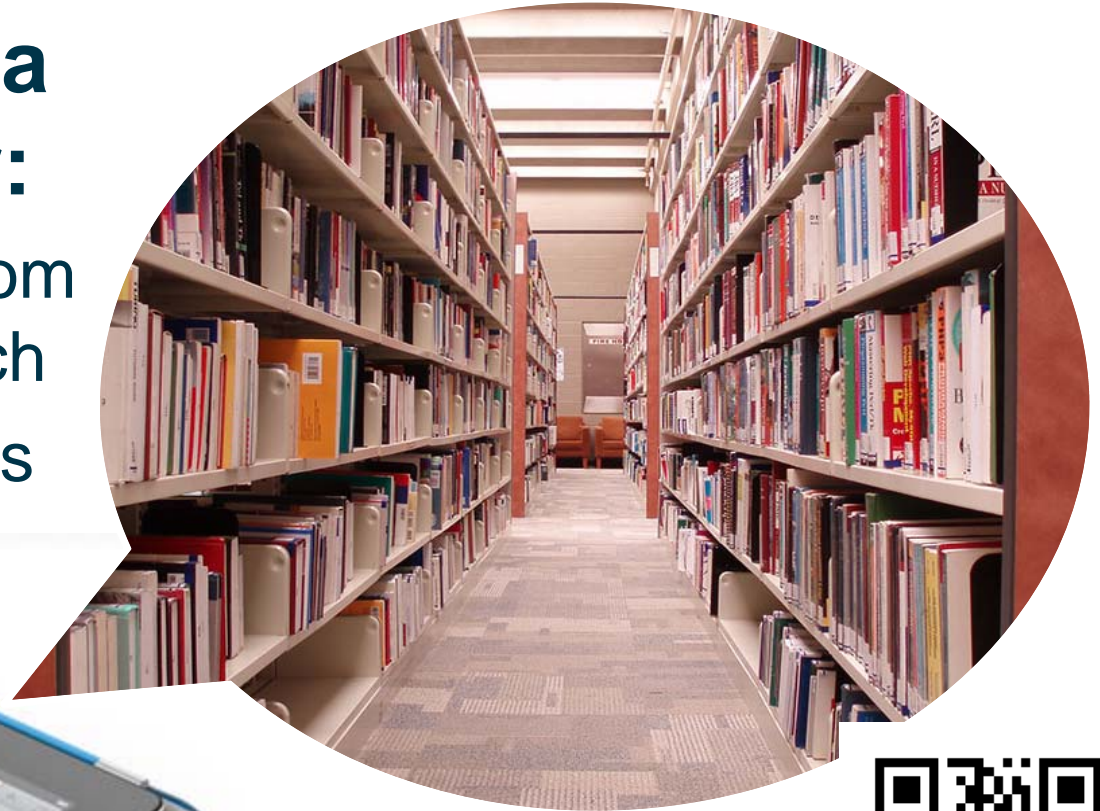
Building America Top Innovations



Where can I find resources?

Building America Solution Center:

Proven Innovations from
World-Class Research
... at Your Finger Tips



<https://basc.pnnl.gov/>





Building America Webinar Series

Topic 2: High Performance Enclosure Strategies: Part I, Existing Homes

Tom Schirber, Fellow, University of Minnesota



Tom Schirber came to Minnesota in 1996 to work at the Wilder Foundation as project manager for the Home Ownership Development Collaboration. He assisted Twin Cities Habitat for Humanity and Community Development Corporations in the core neighborhoods with capacity building and production improvement in St. Paul. Prior to coming to the Twin Cities, Tom worked for a non-profit in North Dakota that built and operated a homeless shelter and other low income housing. Tom is a fellow at the University of Minnesota, Cold Climate Housing Program where he assists with affordable housing technology research that will improve indoor air quality, energy efficiency and durability for low income families. Tom's work includes residential technology and high performing homes. He also works with the affordable housing community to advance best practice within a building science approach.

Steve Schirber, General Manager and Principal, Cocoon Insulation



Steve Schirber is the General Manager and Principal at Cocoon, an insulation, radon mitigation and diagnostic testing contractor. His expertise comes from over 20 years of service in the construction industry specializing in insulation, building systems and performance. Steve has a BCE in Structural Engineering from the University of MN and is an NRPP Radon measurement specialist/mitigation provider, BPI certified envelope specialist and Building Analyst.

Anastasia Herk, Building Performance Specialist, IBACOS



Anastasia Herk is a Building Performance Specialist at IBACOS working on project management and cat herding for the NYSERDA deep energy retrofit project. She has a Master's degree in Architecture from Kent State University, is a LEED AP and has experience in commercial design. She serves IBACOS as a bridge between the world of architecture and the world of residential construction.

Duncan Prah, Senior Research Architect, IBACOS



Duncan Prah has over 11 years of experience at IBACOS assisting builders and developers with implementing high performance housing using Building America research results. His research focuses on process-related barriers in most builders' organizations with the goal of creating new process models for builders. He is a registered architect in New York.

Time for Q&A

***Excavationless Exterior
Foundation Insulation Field
Study***

Tom Schirber
schir056@umn.edu



Project Overcoat

Steve Schirber
steve@cocoon-insulation.com

Strategies for Exterior Insulation

Anastasia Herk
aherk@ibacos.com

Survey

- How did we do?
- Your feedback is important!

Up Next...

June 25th, 2014 3pm ET

Who's Successfully Doing Deep Energy Retrofits (DER)?

The webinar will focus on specific Building America projects and case studies that highlight real-world examples of deep energy retrofits that are meeting with technical and market success. Webinar presenters will focus on technical strategies, modeled and actual performance results, and project costs.

Thank You!

PDF copies of the presentations in this Webinar will be available following the webinar

Please visit:

<http://energy.gov/eere/buildings/building-america-meetings#current>

