

Welcome to the 20th annual Energy Design Conference and Expo!

What started twenty years ago as a one day builder's conference with just 45 attendees has grown to a regionally recognized event attracting over 1,000 people and more than 80 exhibitors. We are very excited about the scope and subject matter of this year's conference agenda and special events to commemorate this milestone year.

The conference and expo provides a unique opportunity to meet and network with individuals, companies, and organizations dedicated to the wise use of energy and resources in the building industry. We encourage you to allow ample time to visit with the exhibitors and also invite you to attend the Monday, Tuesday and Wednesday evening receptions.

Our goal is to provide you with educational sessions that are relatable and applicable to your profession and/or interests. Please make sure to fill out session evaluations and the general conference evaluation—your feedback and input are the driving force of session content.

Thank you for helping us celebrate 20 years of energy efficiency education and building. Have a great time at the conference!

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Monday

Preconference sessions

Special Monday evening reception—4:30–7:30 pm (free to all registered attendees)

Live music from the Mark Anderson Trio and refreshments

Tuesday

28 conference sessions offered

Alternative transportation exhibits (Fitzgerald Hall)

Green Building & Remodeling for Dummies

Book signing with Eric Corey Freed (4:30, outside of the Exhibit Hall)

Minnesota Building Performance Association (MBPA)

Open house/meet and greet (4:30–5:00 pm, French River Room)

The Minnesota Building Performance Association (MBPA) is a non-profit organization with collaborative, industry-wide members committed to promoting high-quality, energy-efficient home improvement on existing homes and efficient construction of new homes. MBPA works together to help ensure homes are safe, healthy, comfortable and efficient. Join us for an open house to learn more about the MBPA and membership opportunities.

Tuesday evening reception—4:30–5:30 pm (free to all registered attendees)

Prizes and refreshments in the exhibit hall



Keynote Dinner—Mark LaLiberte (pre-registration required)
The Quarter Century Perspective: A Lighter Glance at This Evolving Industry (6:00–8:00 pm)

Join us for an evening of socializing, dinner and an engaging keynote address from Mark LaLiberte. As a distinguished trainer, author and consultant, Mark LaLiberte has devoted two decades to educating the homebuilding industry about the benefits of constructing durable, energy-efficient, healthier and more sustainable homes. Tickets: \$25 (tickets must be purchased online in advance)

Wednesday

33 conference sessions offered

Alternative transportation exhibits (Fitzgerald Hall)

Wednesday evening reception—4:30–5:30 pm (free to all registered attendees)

Prizes and refreshments in the exhibit hall

Monday, February 22

Preconference Agenda



Harborside 304

Harborside 203

Harborside 204

Harborside 302

7:30–8:30 am • Registration

8:30 am–12:00 noon

Tips on CIP: Utilities and the Conservation Improvement Program—This full-day workshop, presented by the Minnesota Office of Energy Security, is designed specifically for Minnesota gas and electric utilities, including co-ops, municipals and investor-owned. The seminars will cover several topics, ranging from an overview of basic conservation improvement program (CIP) design to the latest research findings that can translate to new energy savings opportunities for utilities.

• **Welcome/Overview of Morning Presentations**
Jeff Haase, MN OES

• **CIP Design Workshop**—A workshop on how to build successful conservation programs that benefit your customers and utility.

- Value of conservation to customers and utility
- Step-by-step design process
- Partnerships
- Programs that work

Ed Carroll, Franklin Energy

• **OES Update**—An update on OES activities and on-line resources including deemed savings. Bring any questions you have related to general CIP policies or reporting.
MN OES Staff

Minnesota GreenStar Project Registration Workshop (Part 1 of 2)—his full-day workshop is offered at an exclusive discount for Energy Design Conference attendees—\$150 for the full-day session, a savings of over 50 percent!

Minnesota GreenStar is the premier residential green remodeling and new home standard and certification program in the state. Built by Minnesotans for Minnesotans, Minnesota GreenStar can help you win more business AND create homes that are more durable, healthier for the occupants and better for our environment.

This 6-hour EXPRESS workshop will help translate green principles into practical building practices. It will include interactive sessions to complete a mock Minnesota GreenStar certified project checklist and will help differentiate your company as a leader in the industry. This training fulfills the mandatory requirement to register a Minnesota GreenStar project.

Mike Williams, Minnesota GreenStar

Advanced Air Sealing for Existing Homes: Tightening the Shell (Part 1 of 2)—This full-day workshop will demonstrate how to save money and make an existing home more comfortable through effective air sealing. Topics include:

1. Commonly found construction details that often have excessive air leakage. Learn about the various air leaks to the attic, how to identify those leaks, and effective solutions for air sealing. Understand how to properly air seal story and a half houses and discover proven techniques for treating knee wall details.
2. Learn about the other key junctures in the house that can benefit from air sealing including rim joists, crawlspaces, and sidewalls.
3. Mike will discuss how air sealing can affect indoor air quality and potentially cause excess indoor humidity (RH%) when combustion safety testing is not adequately addressed. Cost-effective ventilation strategies will be covered.

Mike Wilson, Dakota Supply Group

Essentials for Healthy Home Practitioners (Part 1 of 2)—This one-day course is an abbreviated version of the two-day Healthy Homes Practitioners training. It takes a holistic approach to identifying and resolving problems that threaten the health and well-being of residents. It will provide an overview of the seven fundamental principles of Healthy Housing: keeping homes dry, clean, ventilated, pest-free, contaminant-free, safe and maintained. This course links these principles to specific applications, making the connections for improved health in the lives of clients and families.

Sam Greene, Rachelle Peleska and Joelee Luna, Sustainable Resources Center

LUNCH 12:00–1:00 pm

1:00–4:30 pm

• **B3 Update**—An overview of updates to the B3 tool and how to use B3 to identify energy savings opportunities.
Leo Steidel, Weidt Group

• **Plug Load Study Findings**—Presentation of results of the recent study on plug loads in Minnesota and program strategies to address them.
Scott Pigg, Energy Center of Wisconsin

• **What's on the Horizon**—A panel discussion with Jeff Haase, Demand Efficiency Supervisor of OES, and utility program managers on the future of utility CIP, including beneficial programs and technologies to help achieve the 1.5 percent energy savings goal.
Moderated by Terry Webster, MN OES

• **Weatherization Program and CIP**—Discussion on opportunities for collaborating between utilities and weatherization service providers and strategies for leveraging ARRA stimulus funding.
David Miller, MN OES

• **Session Wrap-up**
Jeff Haase, MN OES

Minnesota GreenStar Project Registration Workshop (Part 2 of 2)—Minnesota GreenStar is a regionally-focused, green remodeling and new home standard and certification program. This course will provide a key understanding of residential green building standards and techniques coupled with an interactive workshop to complete a simulated Minnesota GreenStar checklist. This training fulfills the mandatory requirement to register a Minnesota GreenStar project and is approved for 6 building contractor CEUs.

Mike Williams, Minnesota GreenStar

Advanced Air Sealing for Existing Homes: Testing the Shell (Part 2 of 2)—Air sealing your customer's home is only the first step; testing for tightness, understanding combustion safety and avoiding moisture/pressure issues are key points to know. Topics include:

1. Discussion on testing for tightness using a blower door, common terms/methods used for energy audits and performance testing.
2. Overview of how to achieve a balance of relative humidity with the use of ventilation and humidifier operation during the winter time.
3. Become familiar with how to prevent back drafting of combustion equipment. How Pressure/Building diagnostics can be very helpful on determining equipment selection.

Mike Wilson, Dakota Supply Group; Kevin Brauer, Center for Energy and Environment

Essentials for Healthy Home Practitioners (Part 2 of 2)—This workshop brings together public health officials, housing practitioners and contractors to promote practical and cost-effective methods for making homes healthier. Sustainable Resources Center, as a partner of The National Healthy Homes Training Network, provides this training, which serves as a forum for exchanging information on new research and best practices.

Sam Greene, Rachelle Peleska and Joelee Luna, Sustainable Resources Center

4:30–7:30 pm

Evening Reception (free to all presenters, exhibitors and registered attendees). Enjoy live music from the Mark Anderson Trio and refreshments.