

Tuesday, February 25

Complete seven hours of your MN Builder credit CEU requirements per day. **You must attend the 7:00 a.m. session to receive all seven credits.**

	BALLROOM O	GOOSEBERRY	FRENCH RIVER	BALLROOM M
	EEBA: Existing Homes	Pump it Up	High Performance Housing	Here Comes the Sun
	6:30–7:00 am • Early Session Registration			
7–8:15 am			Living Net-Zero in an Advance Steel-Framed, Low-Toxin, Super-Insulated, High-Performance Home. <i>Lawrence Ponziano, Zehnder America</i>	Introduction to Solar: Technology, Resources and Policies <i>Mark Weber, Minnesota Renewable Energy Society</i>
	7:30–8:30 am • Registration • Exhibit Hall Opens			
8:30–10 am	LAKE SUPERIOR BALLROOM J Opening Keynote Are We There Yet? 30 Years Along the Path of Better Buildings. What Have We Accomplished? What is Left to Do? <i>Gord Cooke, EEBA</i>			
	10:00–10:30 am • Break • Exhibits			
10:30 am–12 pm	Houses That Work for Existing Homes, Remodeling for Energy Efficiency - Part 1: The Basics <i>Gord Cooke, EEBA</i>	Air to Water Heat Pump Systems <i>Dennis Schramel, Electro Industries</i>	A Path to Green(er) Building <i>Rachel Wagner, through design</i>	National Electrical Code and Minnesota Policy Changes for 2020 <i>Christopher LaForge, Great Northern Solar</i>
	12:00–1:00 pm • Lunch • Exhibits			
1–2:30 pm	Houses That Work for Existing Homes: Remodeling for Energy Efficiency - Part 2: Common Remodel Projects & Opportunities for Energy Efficiency Upgrades <i>Gord Cooke, EEBA</i>	Are You Pumped Up? Achieving Widespread Quality Installations of Cold Climate Air Source Heat Pumps <i>Alexis Troschinetz, Joel Haskard; Clean Energy Resource Teams Phil Anderson, Alex Haynor, Isaac Smith; Center for Energy and Environment (This is a double session that runs until 4:30 pm)</i>	If I Had a Hammer, I Would Build a Zero Energy Home! <i>Patrick Huelman, University of Minnesota</i>	Energy Storage Basics: Options, Equipment, and Requirements <i>Christopher LaForge, Great Northern Solar</i>
	2:30–3:00 pm • Break • Exhibits			
3–4:30 pm	Houses That Work for Existing Homes: Remodeling for Energy Efficiency - Part 3: Avoiding Pitfalls & Using Evaluations and Ratings <i>Gord Cooke, EEBA</i>		From Control Layers to High-Performance Enclosures <i>Patrick Huelman, University of Minnesota</i>	Electric Cars are Coming! What Should Real Estate Owners and Building Industry Professionals Know About Charging? <i>Jukka Kukkonen, PlugInConnect</i>
	4:30–6:00 pm • Reception • Door Prizes • Refreshments • Exhibits			

Wednesday, February 26

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	BALLROOM O	GOOSEBERRY	FRENCH RIVER	BALLROOM M
	EEBA: Zero Energy	Something in the Air	Nuts and Bolts	Potluck
	6:30–7:00 am • Early Session Registration			
7–8:15 am			Beneficial Electrification: Advancing Technologies, Efficiency and Comfort for the Future with ASHP <i>Greg Nahn, Slipstream</i>	High-Performance Glazing <i>Al Dueck, DUXTON Windows & Doors</i>
	7:30–8:30 am • Registration • Exhibit Hall Opens			
8:30–10 am	The EEBA Path to Affordable Zero Energy Homes - Part 1: Context and Economic Issues <i>Bruce Sullivan, EEBA</i>	Whole-House Ventilation Systems: Providing Healthy, Comfortable and Energy Efficient Indoor Solutions <i>Lawrence Ponziano, Zehnder America</i>	Building Science Fundamentals <i>Peter Yost, Building-Wright</i>	Renewable Energy Beyond Subsidies - How Incentives Have Grown the Industry that is Reshaping Our Energy Systems <i>Christopher LaForge, Great Northern Solar</i>
	10:00–10:30 am • Break • Exhibits			
10:30 am–12 pm	The EEBA Path to Affordable Zero Energy Homes - Part 2: Design and Building Envelope <i>Bruce Sullivan, EEBA</i>	Critical Layers in High-R Wall Assemblies <i>Elden Lindamood, Wagner Zaun Architecture</i>	Wingnut Testing: How PSA Tapes, Liquid Sealants, Basement Waterproofing Systems, and Roof Venting Really Work <i>Peter Yost, Building-Wright</i>	Dehumidification in Minnesota's Single Family Homes <i>Josh Quinnell, Center for Energy and Environment</i>
	12:00–1:00 pm • Lunch • Exhibits			
1–2:30 pm	The EEBA Path to Affordable Zero Energy Homes - Part 3: Indoor Air Quality and Mechanical Systems <i>Bruce Sullivan, EEBA</i>	Commercial New Construction: Lessons to Help You Make the Tough Decisions when Under Pressure <i>Mark Francis and Bruce Stahlberg, Franklin Energy</i>	Building Science Puzzles: Gaming to Better Your Building Science <i>Peter Yost, Building-Wright</i>	Basics to Preparation and Installation for Scenic Doors <i>Erick Filby and Eric Klein, Marvin Windows</i>
	2:30–3:00 pm • Break • Exhibits			
3–4:30 pm	The EEBA Path to Affordable Zero Energy Homes - Part 4: Renewable Energy and Marketing/Sales <i>Bruce Sullivan, EEBA</i>	Multifamily Air Leakage: Test Methods and Results <i>Paul Morin, The Energy Conservatory Jake Selstad, Center for Energy and Environment</i>	Comparing Spray Foam, AeroBarrier and Other Air Sealing Applications in New and Existing Buildings <i>Peter Yost, Building-Wright</i>	Leverage the Marketability of High-Performance Homes: Capitalize on Consumer Demand for Healthy Air while Meeting Building Codes and Energy Goals <i>Joseph Hillenmeyer, Aprilaire Brandon Glancy, Aprilaire</i>