

Agenda

Agenda Day One - Presented by Heather Holdridge

Residential Energy Efficiency Requirements

- Reviewing ANSI/ASHRAE/IES 90.1 and the residential provisions of the International Energy Conservation Code (IECC)
- Zero Code and stretch codes
- To seek (or not to seek) sustainable certifications
- Helpful resources
- Software for energy modeling and energy-efficient design

Introduction to Project: Net-Zero Energy Home

- Client request
- Proposed site
- Sizing, orientation and preliminary plans

Workshop: Designing Heating and Cooling Systems

- Control systems
- Ductwork insulation and sealing
- Service hot water systems
- Mechanical ventilation systems

Workshop: Electrical, Power, Lighting and Renewable Energy Systems

- Power systems
- Lighting systems
- Adding solar thermal or solar photovoltaic energy systems

Agenda Day Two - Presented by Cody Farmer

Workshop: Designing an Energy-Efficient Envelope

- R-values and U-factor alternatives
- Foundation, roof and exterior walls
- Thermal and vapor barriers

Workshop: Choosing Windows and Doors

- R-values and U-factor alternatives
- Prescriptive fenestration
- Energy modeling and testing

Can't Attend? Order the Webinar as a Self-Study Package!

Recordings of this webinar are available for purchase. See course listing online for more information and please refer to specific state licensing rules or certification requirements to determine if this learning method is eligible for continuing education credit.

Designing and Constructing a Net-Zero Energy Home

Online - Monday, July 25 and Friday, July 29, 2022

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HalfMoon Education Inc.
PO Box 278
Altoona, WI 54720-0278



Learning Objectives

You'll be able to:

Recognize the requirements to achieve residential energy efficiency.

Address client requests for net-zero energy home projects.

Learn the ins and outs of control systems for heating and cooling.

Explore ways to efficiently add power and lighting systems.

Understand how to design an energy-efficient envelope that has required thermal and vapor barriers.

Discuss how to choose the right windows and doors for your project.



HalfMoon Education Live Webinars

Designing and Constructing a Net-Zero Energy Home

Live, Interactive Webinar

Monday, July 25 and Friday, July 29, 2022



Learn about software used for energy modeling and energy-efficient design

Get an in-depth look at the sizing, orientation and preliminary plans for net-zero energy homes

Discuss ductwork insulation and sealing for heating and cooling systems

Review ways to add solar thermal energy systems

Explore foundation, roofing and exterior walls used in designing at energy-efficient envelope

Understand criteria for choosing efficient windows and doors

Continuing Education Credits

Professional Engineers
6.5 PDHs

International Code Council
.65 CEUs (Energy)

Architects
6.5 HSW CE Hours
6.5 AIA LU | HSW

AIA
Continuing
Education
Provider



Faculty

Heather Holdridge EIT Associate AIA LEED Fellow *Associate Partner, Sustainability Director*
Heather Gayle Holdridge, LEED Fellow, EIT, Associate AIA is the Sustainability Director at Lake|Flato Architects. Leveraging her background in mechanical engineering, Heather directs all Lake|Flato teams in establishing sustainability goals. She devises strategies and systems to realize those goals under programs such as LEED, the 2030 Challenge, and the Living Building Challenge. Heather works closely with teams to evaluate passive systems and performs energy modeling throughout the design process. She received a Bachelor of Science degree in Mechanical Engineering from The University of Texas at Austin and a Master of Business Administration degree from The University of Texas at San Antonio.

Cody Farmer *MainStream Corporation*
Before there was green building for Cody Farmer, there was vision of the American dream and the freedom to work with and build with family and friends. Co-founding MainStream Corporation in September 2007, the door opened to that dream. Building some of the nation’s tightest and best known Passive Houses, MainStream has since become a local go-to Passive House and performance building boutique with laser-like focus on the deployment of integrated design results, advanced building envelopes, air tight detailing, ventilation and indoor air quality, energy modeling and contractor training. With roots in real estate investing, he has successfully brought Passive House principles to tiny homes, “McMansions,” Mighty Arrow Passive House, Gilcrest Library, Pelican Lake Ranch maintenance building, City of Lafayette building, City of Fort Collins, Passivista, Traveler’s Rest and many custom “McPassive Houses,” “Almosta” Passive Houses, and the pinnacle passive solar houses. A business marketing graduate of the University of Northern Colorado’s Monfort College of Business 2001, Cody spent several years serving as the director of marketing for a high-tech R&D firm helping bring new government-funded projects into the marketplace. In 2007 he served as a member of Colorado’s Air Force National Guard unit at Greeley’s 137th Space Warning Squadron working with remote living conditions. He then obtained an M.S. degree in Construction Management and Sustainable Building at Colorado State University 2011.

Webinar Information

Day One: Monday, July 25, 2022
11:00 am - 3:30 pm CDT (including a 30-min. break)

Day Two: Friday, July 29, 2022
11:00 am - 1:30 pm CDT (including a 15-min. break)
(please log into the webinar 15 - 30 minutes before start time)

Tuition
\$319 for individual registration
\$289 for two or more registrants from the same company at the same time.
Included with your registration: PDF seminar manual.

How to Register

- Visit us online at www.halfmoonseminars.org
- Mail-in or fax the attached form to 715-835-6066
- Call customer service at 715-835-5900

Webinars are presented via GoToWebinar. Instructions and login information will be provided in an email sent close to the date of the webinar. For more information, please visit our FAQ section of our website, or visit www.gotowebinar.com.

Cancellations: Cancel at least 48 hours before the start of the webinar, and receive a full tuition refund, minus a \$39 service charge for each registrant. Cancellations within 48 hours will receive a credit toward another webinar or the self-study package. You may also authorize another person to take your place.

Added Value: Enhance your learning - a recording of this webinar will be available for attendees to stream online for two weeks after the program date.
(Must attend live webinar to earn live webinar credits)

Additional Learning

Drones in Construction
- Fri, June 24, 2022|9:30 am - 4:50 pm CDT

Solar Photovoltaic Energy Systems 2022: New Developments forResidential and Small Commercial Systems
- Mon, June 27, 2022|11:30 am - 2:40 pm CDT
- Tues, June 28, 2022|11:30 am - 2:40 pm CDT

AIA Contract Document Workshop
- Wed, July 6, 2022|8:30 am - 4:30 pm CDT

Applying Passive Solar Design To Conventional Homes
- Mon, July 11, 2022|2:30 - 4:30 pm CDT

Construction Cost Estimating Workshop: Estimating a Small Commercial Building
- Mon, July 11, 2022|8:30 - 4:00 pm CDT

Complying with Commercial Provisions of the 2021 International Energy Conservation Code
- Fri, July 15, 2022|8:30 am - 4:30 pm CDT

For more information and other online learning opportunities visit:
www.halfmoonseminars.org

Continuing Education Credit Information
This webinar is open to the public and offers 6.5 PDHs to professional engineers and 6.5 HSW continuing education hours to licensed architects in all states.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida (Provider No. 0004647), Indiana (License No. CE21700059), Maryland, New Jersey (Approval No. 24GP00000700) and North Carolina (S-0130). HalfMoon Education is deemed an approved continuing education sponsor for New York engineers and architects via its registration with the American Institute of Architects Continuing Education System (Regulations of the Commissioner §68.14(i)(2) and §69.6(i)(2)). Other states do not preapprove continuing education providers or courses.

The American Institute of Architects Continuing Education System has approved this course for 6.5 LU|HSWs (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

The International Code Council has approved this event for .65 CEUs in the specialty area of Energy (Preferred Provider No. 1232).

Attendance will be monitored, and attendance certificates will be available after the webinar for those who attend the entire course and score a minimum 80% on the quiz that follows the course (multiple attempts allowed).

Can’t Attend? Order the Webinar as a Self-Study Package!
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Registration

Designing and Constructing a Net-Zero Energy Home
Live, Interactive Webinar - Monday, July 25 and Friday, July 29, 2022

How to Register		Registrant Information Name: _____ Company/Firm: _____ Address: _____ City: _____ State: _____ Zip: _____ Occupation: _____ Email: _____ Phone: _____ Additional Registrants: Name: _____ Occupation: _____ Email: _____ Phone: _____ Name: _____ Occupation: _____ Email: _____ Phone: _____ Email address is required for credit card receipt, program changes, and notification of upcoming seminars and products. Your email will not be sold or transferred. () I need special accommodations. Please contact me.
Online: www.halfmoonseminars.org		
Phone: 715-835-5900		
Fax: 715-835-6066	Code:	
Mail: HalfMoon Education Inc., PO Box 278, Altoona, WI 54720-0278		
Complete the entire form. Attach duplicates if necessary.		
Tuition () I will be attending the live webinar. Single Registrant - \$319.00 . Two or more registrants from the same company registering at the same time - \$289.00 each. () I am not attending. Please send me the webinar recording: ☐ Streamable MP4 Video/PDF Manual for \$329.00 . ☐ USB Video/PDF Manual for \$329.00 . Checks: Make payable to HalfMoon Education Inc. Credit Card: <i>Mastercard, Visa, American Express, or Discover</i> Credit Card Number: _____ Expiration Date: _____ CV2 Code: _____ Cardholder Name: _____ Billing Address: _____ City: _____ State: _____ Zip: _____ Signature: _____ Email: _____		