

Agenda

Presented by Jason LaFleur

Net-Zero Energy Home Design Workshop Day One

Tuesday, April 6, 2021 | 11:00 am - 2:15 pm CDT (including a 15-min. break)

Residential Energy Efficiency Requirements

- Reviewing residential provisions of the International Energy Conservation Code (IECC)
- 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

- Integrated approaches
- Customer considerations
- Sizing, orientation and preliminary plans
- Energy modeling and HVAC design

Net-Zero Energy Home Design Workshop Day Two

Wednesday, April 7, 2021 | 11:00 am - 2:15 pm CDT (including a 15-min. break)

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
- Envelope testing for net zero success

Net-Zero Energy Home Design Workshop Day Three

Friday, April 9, 2021 | 11:00 am - 2:15 pm CDT (including a 15-min. break)

Workshop: Designing Heating and Cooling Systems

- HVAC systems for Zero Energy homes
- Ductwork and distribution
- Service hot water systems
- Thermal systems
- Mechanical ventilation systems
- Self-powered HVAC

Workshop: Electrical Systems and Distributed Energy Resources

- Electrical and lighting systems
- Electric vehicle infrastructure
- Solar photovoltaic energy systems
- On-site power generation and energy storage

Project Wrap-Up

Net-Zero Energy Home Design Workshop
Online - Tuesday, April 6, Wednesday, April 7,
and Friday, April 9, 2021

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Learning Objectives

You'll be able to:

Identify residential provisions of the International Energy Conservation Code (IECC).

Do energy modeling to meet and exceed IECC requirements.

Use home sizing and orientation information to create the preliminary design.

Conduct envelope testing for net-zero success.

Select the appropriate heating, cooling and distributed energy systems for net-zero energy

Design energy efficient electrical and lighting systems.



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HalfMoon Education Online Learning Net-Zero Energy Home Design Workshop

Live, Interactive Webinar Series
Tuesday, April 6, Wednesday, April 7
and Friday, April 9, 2021



Design a net-zero energy home in this interactive online workshop

Take a project from preliminary plan to final design

Choose windows, doors and materials that maximize the energy-efficiency of the building envelope

Select heating, cooling and distributed energy systems for resilience

Learn how to incorporate solar PV systems, onsite energy storage and electric vehicle infrastructure into your design

Continuing Education Credits

Professional Engineers
9.0 PDHs

Architects
9.0 HSW CE Hours

AIA
9.0 LU|HSW

International Code Council
.9 CEUs (Energy)



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Jason LaFleur *Sr. Program Manager, GTI Energy*
Mr. LaFleur joined GTI in 2017 as a program manager for the Emerging Technologies team, and he manages emerging technology programs, working with clients such as the Department of Energy's Building America program and the Department of Defense to improve energy efficiency and create resilient energy systems and infrastructure. Prior to joining GTI, he founded Eco Achievers, a nationally-active Zero Energy consulting firm. He has extensive experience working with emerging technologies in the building sector, helping project teams through design, construction and delivery of several Zero Energy buildings and dozens of high-performance single- and multi-family buildings. He has certified hundreds of homes to LEED, ENERGY STAR, and Passive House standards. Mr. LaFleur is a voting member of ASHRAE 227 Passive Building Standard.

Webinar Information

Day One: Tuesday, April 6, 2021
11:00 am - 2:15 pm CDT (including a 15-min. break)

Day Two: Wednesday, April 7, 2021
11:00 am - 2:15 pm CDT (including a 15-min. break)

Day Three: Friday, April 9, 2021
11:00 am - 2:15 pm CDT (including a 15-min. break)
(please log into the webinar 15 - 30 minutes before start time)

Tuition
\$389 for individual registration
\$299 for three 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.

Additional Learning

Complying with Fire, Building and Mechanical Codes: Focus Fire Rated Ducts & Enclosures
- Wed., Mar. 10, 2021 | 7:30 am - 2:50 pm CST

Architectural Acoustics – Design and Construction
- Thurs., Mar. 11, 2021 | 8:30 am - 4:30 pm CST

Pumping and Piping Systems
- Thurs., Mar. 11, 2021 | 11:00 am - 2:15 pm CST
- Fri., Mar. 12, 2021 | 11:00 am - 2:15 pm CST

How to Build a Sustainable Future
- Thurs, Mar. 11, 2021 | 11:00 am - 2:15 pm CST

SketchUp for Building Professionals
- Thurs., Mar. 11, 2021 | 11:00 am - 2:45 pm CST
- Fri., Mar. 12, 2021 | 11:00 am - 2:45 pm CST

2021 International Residential Code: Residential Structural Design
- Fri., Mar. 12, 2021, 11:00 am - 3:30 pm CST

Introduction to Green Infrastructure
- Wed., Mar. 17, 2021 | 11:00 am - 2:30 pm CDT
- Thurs., Mar. 18, 2021 | 11:00 am - 2:30 pm CDT

Bioretention System Design
- Fri., Mar. 19, 2021 | 10:00 am - 12:00 pm CDT

Considerations for Acquiring and Developing Brownfields Properties in the U.S.

- Tues., Mar. 23, 2021 | 1:00 - 4:00 pm CDT

Gray vs. Green: Deep Dive into the Role of Green Infrastructure in the Face of an Uncertain Climate
- Wed., Mar. 24, 2021 | 10:00 am - 12:00 pm CDT

Designing for Climate Resilience
- Thurs., Mar. 25, 2021 | 11:00 am - 2:45 pm CDT
- Fri., Mar. 26, 2021 | 11:00 am - 2:45 pm CDT

Threats to Trees
- Fri., Mar. 26, 2021 | 9:00 am - 4:30 pm CDT

For more information
and other online learning opportunities visit:
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Continuing Education Credit Information

This webinar offers 9.0 PDHs to professional engineers and 9.0 HSW continuing education hours to architects licensed 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), North Carolina (S-0130), and North Dakota. 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 9.0 LU | HSW (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

The International Code Council has approved this event for .9 CEUs in the specialty area of Energy (Preferred Provider No. 1232).

Completion certificates will be awarded to participants who complete this event, respond to prompts and earn a passing score (80%) on the quiz that follows the presentation (multiple attempts allowed).

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

Recordings of this webinar are available for purchase. See registration panel 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.

Registration

Net-Zero Energy Home Design Workshop
Online - Tuesday, April 6, Wednesday, April 7, and Friday, April 9, 2021

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| How to Register | Registrant Information |
| Online: www.halfmoonseminars.org | Name: _____ Company/Firm: _____ Address: _____ City: _____ State: _____ Zip: _____ Occupation: _____ Email: _____ Phone: _____ |
| Phone: 715-835-5900 | Additional Registrants: Name: _____ Occupation: _____ Email: _____ Phone: _____ Name: _____ Occupation: _____ Email: _____ Phone: _____ |
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| Complete the entire form. Attach duplicates if necessary. | |
| 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. | |
| Tuition () I will be attending the live webinar. Single Registrant - \$389.00 . Three or more registrants from the same company registering at the same time - \$299.00 each. () I am not attending. Please send me the webinar recording: <input type="checkbox"/> Streamable MP4 Video/PDF Manual for \$399.00 . <input type="checkbox"/> USB Video/PDF Manual for \$399.00 . | |
| Checks: Make payable to HalfMoon Education Inc. | |
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