HalfMoon Education Live Continuing Education Webinars

Sustainable Buildings: Materials, Process, and Technology

Tuesday, February 28, 2023 | 8:30 am - 4:00 pm CST

Credits: Professional Engineers: 6.0 PDHs Architects: 6.0 HSW CE Hours
AIA: 6.0 LU|HSW* International Code Council: .6 CEUs (Sustainability)**

Designing and Constructing All-Electric Buildings

Wednesday, March 1, 2023 | 11:00 am - 2:15 pm CST
Thursday, March 2, 2023 | 11:00 am - 2:15 pm CST

Credits: Professional Engineers: 6.0 PDHs Architects: 6.0 HSW CE Hours
AIA: 6.0 LU|HSW* International Code Council: .6 CEUs (Electrical)**

*Live course approval. Pre-approval for on-demand format may be available upon request.
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Agenda Highlights: (see online listing for full agenda)

Defining "Sustainability" in 2023
- Health
- Diversity, equity, inclusion, and co-creation
- Locational specificity: materials, skills, workforce, economy, and natural systems
- Life cycle and cost
- Existing laws and policies

Evaluating Sustainable Products
- Balancing health, durability, cost, local production, and environmental justice
- Red list: top toxins to avoid
- Labor practices: Design for Freedom
- Owner mission and strategic plans

Embodied and Operational Carbon
- Biogenic carbon
- Carbon claims, comparisons, and carbon calculations
- Ways to reduce embodied carbon
- Current innovations

Tools and Resources
- Guidance and rating systems
- Modeling systems
- Specifying materials

Improving Sustainability for the Future
- Owner's Project Requirements (OPR)
- AIA2030 and ethics
- AIA Framework for Design Excellence
- Firm standards
- Regenerative practice

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Building Electrification: History, Purpose and Policies
- History of Building Electrification, from 1880s to Today
- Climate impact and Air Quality impact, both indoor and outdoor, of building-based fossil fuels
- Leadership building electrification policies—municipal, state, U.S. and E.U.

Electrifying Houses, Part 1: Electrical Issues
- Service Upgrades: The causes, costs and challenges of increasing electrical service wiring to a building
- The "Watt Diet" approach for planning building electrification
- Case studies of home electrification without significant wiring upgrades

Electrifying Houses, Part 2: Products, Practices and Pricing of Space and Water Heating
- Ducted space heating
- Hydronic space heating
- Ductless space heating
- Standard tank-type water heating
- Large volume water heating

Electrifying Houses, Part 3: Appliances
- Stoves
- Clothes dryers
- Fireplaces
- Grills and outdoor heaters
- Heated pools and hot tubs

Residential Solar Power, Batteries and EV Chargers
- Types of solar panels and inverters
- How to size a post-electrification solar array with | existing gas bills
- How to size a home battery
- Standard EV chargers and new reversible EV chargers that power the house during outages, or grid peaks

Electrifying Restaurants, Offices and Schools
- Watt Diet considerations for new construction and retrofits
- Restaurant equipment - grills, ovens, woks and more
- Office space and water heating
- School space and water heating, from individual buildings | to district systems

Webinars Presented by

Sustainable Buildings: Materials, Process, and Technology
Jodi Smits Anderson, AIA, LEED AP BD+C, Well-AP
Managing Principal of the Albany Office of EYP, a Page company
Lisa J. Goodwin Robbins, RA, CCS, LEED AP *Kalin Associates, Inc.*
James A. D'Aloisio, PE, LEED AP *Principal with Klepper, Hahn & Hyatt*

Designing and Constructing All-Electric Buildings
Sean Armstrong *Managing Principal of Redwood Energy*

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