

Credit Information

Deep Energy Retrofits

This webinar offers 6.0 PDHs to professional engineers and 6.0 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), 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 6.0 LU | HSW (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

The International Code Council has approved this event for .6 CEUs in the specialty area of Energy (Preferred Provider No. 1232).

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

Participating in the WELL Building Certification Process

This webinar offers 7.5 PDHs to professional engineers and 7.5 HSW continuing education hours to architects licensed in all states.

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The American Institute of Architects Continuing Education System has approved this course for 7.5 LU | HSW (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

The International Code Council has approved this event for .75 CEUs in the specialty area of Building (Preferred Provider No. 1232).

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

Live, Interactive Webinars

- Deep Energy Retrofits

- Participating in the WELL Building Certification Process

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Live, Interactive Webinars

Deep Energy Retrofits

- Friday, August 6, 2021 | 8:30 am - 3:30 pm CDT

Participating in the WELL Building Certification Process

- Wednesday, August 18, 2021 | 12:00 - 4:00 pm CDT

- Thursday, August 19, 2021 | 12:00 - 4:00 pm CDT

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Architects 6.0 HSW CE Hours	International Code Council .6 CEUs (Energy)

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Tuition: \$289 **\$269** per registrant using coupon code ENERGYWELL at checkout
\$199 per registrant for three or more

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AIA: 6.0 LU|HSW International Code Council: .6 CEUs (Energy)

Agenda

Making the Case for Deep Energy Retrofits

J. Baker

- Defining a deep energy retrofit
- Quantifying operational and capitalized benefits
- Estimating costs Financial and other incentives
- Addressing short-term and long-term goals

Timing a Deep Energy Retrofit

S. Henderson

- Opportunity for adaptive building reuse
- End-of-life approaching for building components
- Upgrades to meet codes or standards
- Financing mechanisms

Planning Deep Energy Retrofits

S. Henderson

- Modeling lifecycle costs and operational costs
- Identifying needs, prioritizing actions
- Taking steps in the most efficient order

Retrofitting Lighting Systems

M.B. Gotti

- Reducing lighting loads Efficient interior lighting
- Efficient exterior lighting Efficient lighting controls

Retrofitting Building Envelopes

S. Henderson

- Reduce heating/cooling loads Insulating the envelope
- Retrofitting doors and windows

Upgrading HVAC and Ventilation Systems

P. Shah

- Reduce heating/cooling loads Identifying system/equipment options
- Improving air/heat/cooling distribution
- Recovery and reuse Efficient controls

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Agenda Day One:

History and Development of the WELL Certification Process

- Global health - making a difference: Why WELL?
- Get to know WELL
- A comprehensive framework: The 10 concepts
- How the WELL certification ties into ESG reporting and programs

Candidates for WELL Building Certification

- The value of better buildings WELL case studies
- WELL as a movement: WELL APs, WELL faculty, membership

Registration and Participant Roles/Responsibilities

- WELL online introduction Organizing the team
- Communication and updates

Documentation Requirements and Precertification

- Organizing documentation by scope
- Ensuring all requirements are met for building type and use of additional adherence paths (AAP)
- Accessing WELL resources (coach, addendums, FAQs)

Summary of Day, Set up for Tomorrow, Q&A

Agenda Day Two:

Recap/Documentation Review

- Creating checklists/organizing the project and files
- Auditing documents for submission
- File naming and prepping documents for submission

Performance Verification and WELL Report

- Coordinating performance verification timeline
- Pre-PV expectations and planning & tips/tricks
- Performance verification "typical agenda" and what to expect

Post-Award Monitoring

- Preconditions vs optimizations, what monitoring is required?
- Timing and next steps
- Marketing and recognition opportunities between certification cycles
- How PV testing counts towards GRESB and SASB programs for GRESB Q&A

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Faculty

Deep Energy Retrofits

Justin Baker, PE, CEM, ACG CxA, EBCP, LEED® AP is the managing director for Lilker Energy Solutions, a company that focuses on helping new and existing buildings improve their energy efficiency, reduce their carbon footprint, and create healthy and comfortable indoor environments. Mr. Baker is a professional engineer in multiple states including New York, is a certified energy manager, a certified commissioning authority, an existing buildings commissioning professional, and a LEED AP. Mr. Baker has saved clients over \$100M in energy costs over the last 13 years in the industry. He has worked across all market sectors and has conducted energy efficiency projects in every state within the US which include the Pentagon, U.S. Capitol Visitor Center, Hudson Yards, as well as EPA labs, military bases, and hotels nationwide. Mr. Baker has used energy modeling, energy audits, retro-commissioning, and commissioning to help his clients reduce energy usage while still delivering healthy, comfortable, and reliable spaces to live and work.

Shawna Henderson has been working in the field of energy efficiency and housing since 1992, with a focus on cold-climate deep energy retrofits for single family and low-rise residential buildings since the early 2000s. Her field experience with the R-2000 and EnerGuide for Houses programs, coupled with research carried out for Canada Mortgage and Housing Corporation (CMHC) and Natural Resources Canada, provides the backbone of her design and consulting services through Bfreehomes Design Ltd. She is also the co-founder of Blue House Energy, interactive and comprehensive online education for trades, renovators, contractors, and energy efficiency professionals, where she is responsible for technical subject matter and business development. A sought after speaker, author, and blogger, she has published numerous books, research reports, and technical studies in the industry.

Mary Beth Gotti *Independent Lighting Consultant*

Ms. Gotti was the manager of the GE Lighting Institute in Cleveland, Ohio. She was responsible for the overall operation and curriculum development for this training and education center, which hosted over 4,000 visitors a year. She worked in the lighting business of GE for almost 40 years. She held a number of positions in lamp technology and marketing, including lamp development engineer for incandescent and metal halide lamps, research physicist, senior product and application specialist, and manager of lighting education. She has BS and MS degrees in Physics and an MBA degree from John Carroll University in Cleveland, Ohio. Ms. Gotti served on the Board of Directors of the IES for five years, and on the executive committee of the National Lighting Bureau. She is lighting certified (LC) by NCQLP (National Council on Qualifications for the Lighting Professions). Ms. Gotti is currently an independent lighting consultant.

Punit Shah, PE, CEM *Director of Audits, New York, Bright Power Inc.*

Mr. Shah runs the audit team for Bright Power New York business unit where he oversees and conducts energy and water audits for multifamily and commercial properties. He and his team develop actionable scopes of work aimed at reducing utility consumption, increasing occupant comfort, and ensuring compliance with local laws. He also mentors a team of engineers and guides them with their energy audits and project management. His experience includes working at a variety of property types including multifamily residential buildings, hotels, public schools, colleges, hospitals, correctional facilities and commercial buildings at various locations across the US. He received his bachelor's degree in Mechanical Engineering from the College of Engineering Pune, India and a master's degree in Mechanical Engineering from Wayne State University, Detroit.

Participating in the WELL Building Certification Process

Jennifer Berthelot-Jelovic *President and CEO of A SustainAble Production (ASAP), California*

Ms. Berthelot-Jelovic is the founder and CEO of A SustainAble Production (ASAP), a woman-owned small business enterprise. ASAP is committed to creating positive transformation through equity, sustainability and wellness in the places where we live, work, learn and play. She has almost 10 years of experience with the International WELL Building Institute's (IWBI) WELL Building Standard (WELL) as a peer reviewer for the original WELL Pilot, v1.0, v2.0 Pilot and WELL v2; as well as being a member of IWBI's Covid-19 Task Force. Ms. Berthelot-Jelovic has the unique experience of being a consultant to both Delos and IWBI and has been an active member of half a dozen WELL advisories over the years. Ms. Berthelot-Jelovic was one of the first WELL APs and WELL Faculty in the world and is an EcoDistricts AP, LEED Fellow, LEED Faculty, and LEED AP (BD+C & Homes). She has over 15 years of experience with the USGBC's various LEED rating systems, including LEED Volume. Ms. Berthelot-Jelovic's first LEED Project in 2008 was not only Platinum, but Net Positive. Subsequent projects have been first of their kinds, including a carbon neutral tri-generation public private partnership LEED project. She continues to work on innovative energy and water saving projects and portfolios in addition to WELL. In 2018, Ms. Berthelot-Jelovic received the Women in Sustainability Leadership Award (WSLA) & in 2019 IWBI's inaugural global WELL AP of the Year Award.

Lenah Lankhaar *Project Manager, SustainAble Production (ASAP), California*

Ms. Lankhaar has a bachelors of science degree in Environmental Science and a capstone in Project Management with a background in Chemistry. Ms. Lankhaar uses her education in Project Management to oversee ASAP's WELL projects and portfolios. She is the project manager for ASAP's WELL portfolio benchmarking, WELL certifications and WELL health-safety ratings. Ms. Lankhaar has unparalleled project management experience with the WELL Health-Safety Ratings with her first submission of 11M+ square feet and 53 core office and multi-family projects receiving WELL HSR Ratings. Her second submission of 7.8M square feet and 161 corporate projects also received WELL HSR Ratings. Ms. Lankhaar has a great deal of experience with individual WELL certifications including WELL v1, WELL v2 Pilot and WELL v2, in addition to re-certifications and WELL Portfolio benchmarking. She has created structures for WELL documentation and project management that support ASAP's ability to scale WELL to thousands of buildings easily and quickly around the world.