

Agenda

Presented by
Mohamed El-Sayed PE, CEM, CEA, CxA, CPMP, LEED AP BD+C
Marcus Hazelwood, CEM, LEED AP BD+C

Natural Gas and Liquid Propane (LP) Fuel Space Heating

- Cost of units and fuel
- Sustainability and carbon footprint
- Vented and vent-free
- Wall-mounted and floor-mounted
- Location and sizing
- Installation and operation

Electric Resistance Heaters

- Resistance versus hydronic heaters
- Cost of units and power
- Sustainability and carbon footprint
- Location and sizing
- Installation and operation

Heat Pump Space Heating

- Exploring options
- Cost of units and power
- Sustainability and carbon footprint
- Location and sizing
- Installation and operation

In-Floor Heating

- Exploring types of in-floor heat
- Cost of units and power
- Sustainability and carbon footprint
- Location and sizing
- Installation and operation

Hydronic Heating and Steam Radiators

- Hydronic and steam radiator space heating options
- Cost of units and power
- Sustainability and carbon footprint
- Location and sizing
- Installation and operation

Pellet Stoves

- Cost of units and fuel
- Sustainability and carbon footprint
- Wall-mounted and floor-mounted
- Location and sizing
- Installation and operation

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Residential Space Heating Design and Installation

Live, Interactive Webinar - Friday, May 19, 2023



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Learning Objectives

You'll be able to:

Understand sustainability and the carbon footprints associated with natural gas and liquid propane fuel space heating.

Discuss the cost of units and power for electric resistance heaters.

Explore options for heat pump space heating.

Discuss hydronic and steam radiator space heating options.

Understand the installation and operation of pellet stoves.

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Compare the cost and sustainability of natural gas and liquid propane space heating

Explore the energy efficiency of in-floor heating and hydronic heating

Evaluate the sustainability of electric resistance heaters and heat pump space heating

Consider the advantages and disadvantages of using pellet stoves for space heating

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6.0 PDHs

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Faculty

Mohamed El-Sayed *EA Energy Solutions, LLC*
Mr. El-Sayed is a principal at EA Energy Solutions, LLC. In this capacity, he is responsible for fulfilling the client delivery obligations associated with the energy solutions services portfolio. These services support EA Energy's clients and national account customers by ensuring optimal energy efficiency in new construction projects, renovations and existing buildings. Since 2009, Mr. El-Sayed has provided leadership in the field of energy efficiency for multiple organizations and have served clients in the retail, healthcare, education, warehousing and transportation, and civic market segments. In these roles, he managed projects that resulted in Ohio and Indiana's first LEED Platinum commercial buildings and Ohio's first LEED Platinum school. In addition to his operational experience, Mr. El-Sayed is active in the USGBC's Central Ohio Chapter as well as several other professional affiliations. He earned a Master's degree in Environmental Health and Safety from the University of Cincinnati and an undergraduate degree in Mechanical Engineering from the Zagazig University.

Marcus Hazelwood *WB Engineers+Consultants*
Mr. Hazelwood is an energy engineering professional with over 15 years of experience. He is a Certified Energy Manager (CEM) and a LEED Accredited Professional (LEED AP), currently serving as project manager with WB Engineers + Consultants where he spearheads and executes energy management, analysis and decarbonization for company clients across 12 offices in the US. Mr. Hazelwood has developed a deep understanding of energy and sustainability best practices, and has extensive experience in energy auditing, energy efficient design and implementation, sustainability planning, and renewable energy project development. In addition to his professional experience, Mr. Hazelwood holds a bachelor's in Environmental Studies from Harvard University. He is also a member of professional organizations, including the Association of Energy Engineers, the US Green Building Council (USGBC), and the Green Building Institute (GBI). Mr. Hazelwood served as an instructor at Endicott College teaching green building to architectural graduate students for three consecutive years. He is passionate about energy efficiency and sustainability in the built environment.

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