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Commissioning for net zero energy management and challenges

Commissioning for Net Zero Energy Management is important, due to stringent code requirements and standards, e.g., IECC 2015, ASHRAE 90.1 2016, IGCC, and USGBC LEED; rising costs of electricity; and the Federal Government Net Zero Mandate. Clients are requiring net zero energy for new and, in some cases, existing construction. Buildings are the largest energy consumer in the USA, consuming approximately 40% of primary energy, 72% of electricity, and 55% of natural gas. Commissioning for Net Zero Energy Management is generally consistent with an Energy Use Intensity (EUI) goal mindset, where the building is commissioned for performance. A portion of energy usage can typically be provided with sustainable energy technologies. This keynote will present the differences between traditional Commissioning and Commissioning for Net Zero Energy Management, discuss the challenges in its implementation, and present a number of case studies.

Biography

Mischa Morgera is a Certified Qualified Commissioning Professional (QCxP) for new and existing facilities, Certified Sustainability Manager (CSM), LEED Green Associate (GA), Certified Construction Contract Administrator (CCCA); licensure in Florida as a Certified Mechanical Contractor (CMC), Building Plans Examiner (PX), and Mechanical Inspector (MI); and licensure as a registered Professional Engineer (PE) of Ontario, Canada. She has over 25 years of experience in Sustainable Energy Building Construction in both public and private sectors. She is trained in the USA and Canada in Building Construction Engineering and in the UK in Business Administration. She has demonstrated proven leadership within the building construction industry, delivering sustainable energy efficiency and commissioning of major construction projects in excess of \$50M and providing successful project management for new and existing facilities ranging from \$10K to \$150M. She is an advisor on USGBC's Board of Governing Council; her sustainability directives have achieved LEED silver and LEED gold certifications in buildings over 250,000 SF.

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