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ENERGY MODELING SPECIALIST
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BASICS OF BUILDING ENERGY MODELING - BEM
ONLINE PROFESSIONAL COURSES LED BY THE WORLD'S TOP SPECIALISTS
ONLINE TRAINING BY KRISHNAJI PAWAR
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MODULE 7

Benefits of Building Energy Modeling

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BASICS OF BUILDING ENERGY MODELING - BEM

Building Energy Modelling (BEM) is a useful tool for new and existing structures.

Energy modeling may inform design decisions, show code compliance, attain green building certification, and lead policy and code development as the globe explores new carbon-reduction strategies.

Learning Objectives

- Introduction
- What is Building Energy Modeling (BEM)?
- Building Energy Codes and Standards
- Building Energy Modeling Tools
- LEED and Building Energy Modeling
- Building Energy Modeling and Commissioning
- Benefits of Building Energy Modeling
- Professional energy modeling specialist certification
- Summary and Resources

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INTRODUCTION

- BEM has many benefits, from reducing costs to providing critical data.
- However, the software has some challenges.
- Also, there are limited software programs available that support the translation process.
- For example, Green Building XML (gbXML) is one popular format that facilitates building information modeling (BIM) to BEM exchanges.
- The last challenge of BEM is the technical expertise required.

BENEFITS OF BUILDING ENERGY MODELING

- Extensive energy modeling requires the use of numerous assumptions and default data, as information regarding individual structures in cities is generally scarce and not publicly accessible.
- For specific structures, there are well-established manual and automated model calibration procedures.
- While it is possible to utilize the automated calibration methods to calibrate the UBEM directly, doing so will necessitate a greater number of simulations in proportion to the number of structures.
- The results of numerous simulations performed to calibrate certain buildings in the UBEM could potentially be utilized to accelerate the calibration process for other buildings.



WHAT ARE THE BENEFITS OF BEM?

1. Facilitates a comprehensive and integrated approach
2. Predicts energy performance
3. Offers measurable outcomes.
4. Decreases expenses
5. Enhances the level of comfort for homeowners.



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