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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 9

Summary and Resources

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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
- Basics of BEM Quiz_Test Your Knowledge!

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SUMMARY

- The Intergovernmental Panel on Climate Change (IPCC) says buildings are the cheapest way to reduce carbon emissions.
- This category has twice the cost capacity of industry.
- It helps to know that early building design decisions reduce energy consumption and climate emissions.
- The IPCC estimates that recent advances in building technologies, know-how, and policies can stabilize or reduce global energy use to current levels by mid-century.1Architecture uses BEM tools to harmonize them.
- Early and frequent use of these tools allows teams to track and benchmark project design goals.



SUMMARY AND THOUGHTS ON THE FUTURE

- At this time, these determinations regarding the most energy-efficient design strategy require the use of a BEM.
- Energy efficiency does not have a simple solution or silver bullet; rather, it necessitates a comprehensive, integrated, and building-wide design methodology.
- Advancements in energy-efficient building design have been substantial; however, the realization of environmentally conscious architecture that appreciates the natural environment remains a distant goal.
- It begins with gaining a comprehension of the building type and climate in which it will be constructed.



WELCOME TO BEYOND SMART CITIES

Beyond Smart Cities is the world's 1st Green Technology Marketplace, connecting millions of Sustainability Specialists, Green Building Specialists, Energy Specialists, Commissioning Specialists, Environment Specialists, Health & Safety Specialists, Fire Safety Specialists, Climate Change Specialists & Green Products/Technology Manufacturers with independent talent around the globe.

Our mission is to build and support a global community of experts with the highest professional standards in sustainability, green building, energy, commissioning, environment, health & safety, fire safety, climate change, GHG accounting, carbon auditing, and GHG emissions management.

RESOURCES

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- ASHRAE Website



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