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BEYOND SMART CITIES

INTERPRETATIONS OF ENERGY MODEL RESULTS

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ONLINE TRAINING BY KRISHNAJI PAWAR

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MODULE
L14

Project Deliverable for Building Energy Modeling

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INTERPRETATIONS OF ENERGY MODEL RESULTS

Building Energy Modeling (BEM) is a crucial process for understanding a building's energy performance, optimizing consumption, ensuring comfort, and minimizing environmental impact. This project deliverable outlines key components for effective communication, methodology, assumptions, documentation, and actionable recommendations.

Learning Objectives

- Introduction and Course Outline
- Verification and Fixing of Simulation Results
- Analyzing and Comparing Modeling Results
- Economic Analysis
- Sensitivity Analysis
- Exceptional calculation methods
- **Building Energy Modeling Project Deliverables**
- Interpreting Model Results
- Sample Energy Modeling Report
- Summary and Resources
- BEMP Practice Test V.5.1



INTRODUCTION

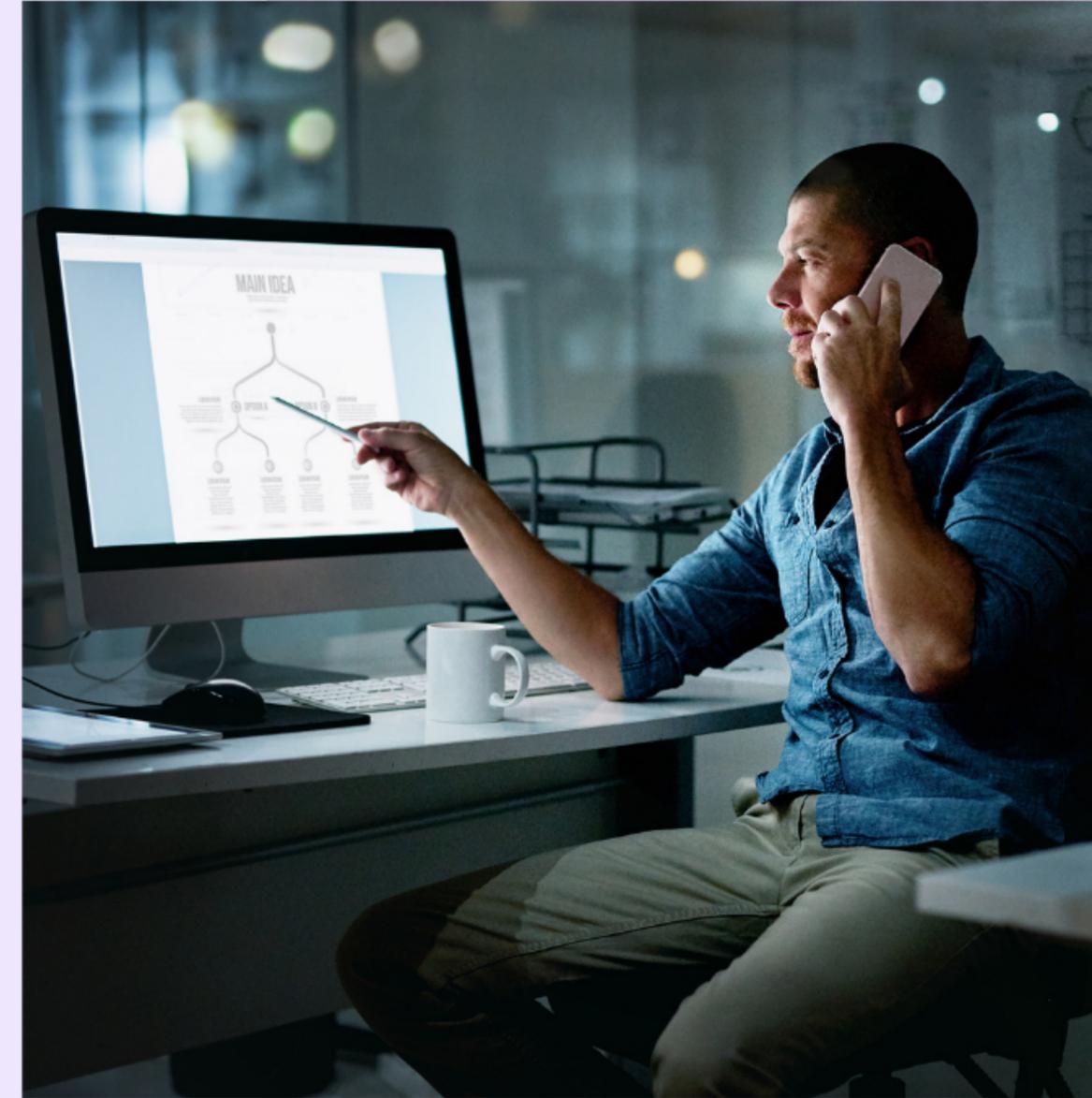
- Communicate results: Summarize findings, detail methodology and assumptions, and provide comprehensive documentation.
- Communicate methodology and assumptions: Provide details about modeling software, assumptions, and documentation.
- Submit documentation affirming results accuracy and completeness, including validation, calibration, quality assurance, and recommendations for improving energy performance.
- Actionable recommendations: Specific, measurable, feasible, energy efficiency measures, performance monitoring, and stakeholder engagement.
- Aim: Optimize building performance, reduce energy consumption, and enhance sustainability.

BUILDING ENERGY MODELING PROJECT DELIVERABLE

- Building Energy Modeling (BEM) is a crucial process for understanding a building's energy performance.
- BEM aims to optimize energy consumption, ensure occupant comfort, and minimize environmental impact.

Key Components of BEM Project

- Communicate Results:
 - Summary of Findings: High-level overview of energy performance metrics.
 - Visualizations: Graphs, charts, and tables to illustrate trends over time.



COMMUNICATE METHODOLOGY AND ASSUMPTIONS



- Modeling Software and Tools Used: Details of the specific software and tools used.
- Assumptions: Details of the assumptions made during the modeling process.

- **Submit Documentation Affirming Accuracy and Completeness of Results:**

- Validation and Calibration: Discusses the validation process.
- Quality Assurance and Quality Control (QC): Outlines the procedures employed to ensure accuracy.

RECOMMEND ACTIONS

- Energy Efficiency Measures: Proposes specific interventions.
- Performance Monitoring: Encourages the establishment of a monitoring plan.
- Stakeholder Engagement: Highlights the importance of involving all relevant stakeholders in the decision-making process.





IMPORTANCE OF EFFECTIVE COMMUNICATION

- Informed Decision-Making: Stakeholders rely on clear, concise information for design modifications, energy efficiency measures, and operational strategies
- Stakeholder Engagement: Translating complex modeling data into understandable formats fosters engagement and collaboration.
- Regulatory Compliance: Clear communication aids in demonstrating compliance with energy codes and standards
- Performance Benchmarking: Results allow for comparisons against benchmarks and best practices, facilitating continuous improvement in energy performance.



COMPONENTS OF EFFECTIVE COMMUNICATION

- Target Audience Identification: Language, depth of detail, and presentation format should be tailored based on the audience.
- Use of Visual Aids: Visual representations of data, such as charts, graphs, and infographics, can enhance comprehension.
- Summary of Key Findings: Results should include an executive summary highlighting the most pertinent findings.
- Detailed Reporting: A comprehensive report should delve into the specifics of the modeling process, assumptions made, methodologies employed, and any limitations encountered.
- Comparative Analysis: Highlighting the differences between various design iterations or energy conservation measures can provide insights into the effectiveness of different strategies.
- Recommendations and Conclusions: Conclude with actionable recommendations based on the modeling outcomes.



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THANK YOU

