

BEYOND

SMART CITIES

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1. Best Prices Anywhere

When buying images, you want to make sure you do so at a site that charges industry level prices, with no overpricing.

We know we've got the best prices, highest sign-up bonuses and the greatest bulk discounts, but of course we'd say that. So as a guarantee, if you find our images cheaper anywhere else, we will immediately match the price.

2. The World's Top Selling Collection of Images

For the last five years, our exclusive PeopleImages.com collection has been the world's top selling, and there's a reason for that. Simply put, we love what we do, and our ambition is to never settle for mediocrity. We're also tired of searching endlessly for great images, and sorting up empty. This site calls an end to that!

3. One Site in the World With an Endless Selection

As a professional photographer, you know that you need a wide variety of images to keep your clients happy. At PeopleImages.com, you'll find the highest quality images you need. PeopleImages.com is the only site in the world with an endless selection of images.

4. The Most Comprehensive Search Function

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INTERPRETATIONS OF ENERGY

MODEL RESULTS

ONLINE PROFESSIONAL COURSES LED BY
THE WORLD'S TOP SPECIALISTS

ONLINE TRAINING BY KRISHNAJI PAWAR

LEED AP(BD+C), GSAS CGP, GCP, ISO 14001

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MODULE
L9

Determine effects of utility rate structures and regulations on costs.

KRISHNAJI PAWAR - CEO & FOUNDER

LEED AP(BD+C),GSAS CGP,GCP,ISO 14001

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INTERPRETATIONS OF ENERGY MODEL RESULTS

Economic analysis in building energy modeling is a systematic approach that evaluates the financial implications of energy efficiency measures, renewable energy systems, and overall building performance. It is essential for stakeholders like architects, engineers, developers, and investors to assess the economic viability and returns on investments in building energy systems.

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

- Systematic approach to evaluate financial implications of energy efficiency measures, renewable energy systems, and building performance.
- Essential for stakeholders like architects, engineers, developers, and investors.
- Utility rate structures, including flat, TOU, demand charges, and tiered rates, significantly influence operating costs.
- Financial metrics like Net Present Value, Internal Rate of Return, payback period, and Levelized Cost of Energy provide a quantitative basis for decision-making.
- Understanding utility rates and regulations is crucial for energy investment strategies.

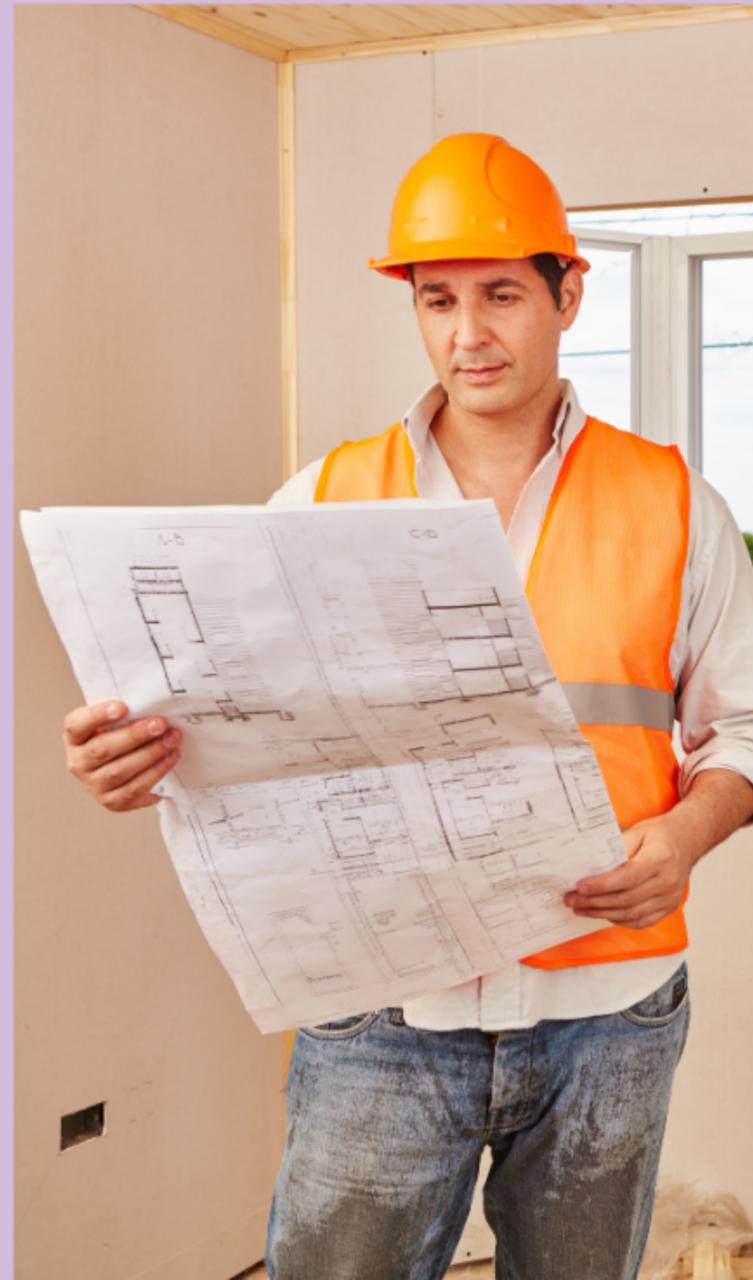
UNDERSTANDING UTILITY RATE STRUCTURES

- Utility rate structures dictate how utility companies charge their customers for electricity and gas.
- Common types include Flat Rates, Time-of-Use (TOU) Rates, Demand Charges, and Tiered Rates.
- Flat Rates: Customers pay a fixed rate per kilowatt-hour (kWh) or per therm, regardless of the time of use.
- TOU Rates: Rates vary based on the time of day, typically higher during peak demand hours and lower during off-peak hours.
- Demand Charges: Utilities may impose demand charges based on the maximum amount of electricity consumed over a short period.
- Tiered Rates: The cost per kWh increases with higher levels of consumption, incentivizing energy conservation.





EFFECTS ON COSTS



- Understanding how these rate structures affect costs requires an analysis of projected energy usage patterns and associated costs.
- The total annual cost, combining energy and demand charges, would need to be carefully calculated to assess the financial impact.

FINANCIAL METRICS FOR BUILDING ENERGY PROJECTS

- Key metrics include Net Present Value (NPV), Internal Rate of Return (IRR), Payback Period, and Levelized Cost of Energy (LCOE).
- These metrics help stakeholders make informed decisions that align with both economic and environmental objectives.



REGULATORY FRAMEWORKS

- **Cost-of-Service Regulation:** Regulators assess the utility's operating costs, capital expenditures, and the required rate of return to determine the allowable revenue.
- **Performance-Based Regulation (PBR):** PBR incentivizes utilities to improve efficiency and service quality by linking revenues to performance metrics.



IMPACT ON CONSUMER COSTS

- Tiered and TOU rates tend to benefit lower-use consumers while imposing higher costs on those with greater usage.
- Utility Financial Stability: The rate structure affects revenue stability and predictability.
- Investment Decisions: Regulatory frameworks and rate structures influence how utilities prioritize investments in infrastructure.



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THANK YOU

