

## Modeling of Energy Systems

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- The Systems Approach and Energy Models
  - The Model Structure: Internal and External Assumptions
  - The Analytical Approach: Top-Down vs. Bottom-Up
  - The Underlying Methodology
  - Analytical Approach for Energy Modeling
  - Econometrics Model
  - Statistical Models
  - Simulation Method
  - Optimization Method
  - Energy Demand Models
  - Simulation Energy Demand Models
  - Statistical Energy Demand Models
  - Optimization Energy Demand Models
  - Energy Supply Models
  - Fundamentals of supply energy models
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