



Large Hospital 50 Energy Savings: Technical Support Document (Paperback)

By National Renewable Energy Laboratory (NREL)

Bibliogov, United States, 2012. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****. This Technical Support Document documents the technical analysis and design guidance for large hospitals to achieve whole-building energy savings of at least 50 over ANSI/ASHRAE/IESNA Standard 90.1-2004 and represents a step toward determining how to provide design guidance for aggressive energy savings targets. This report documents the modeling methods used to demonstrate that the design recommendations meet or exceed the 50 goal. EnergyPlus was used to model the predicted energy performance of the baseline and low-energy buildings to verify that 50 energy savings are achievable. Percent energy savings are based on a nominal minimally code-compliant building and whole-building, net site energy use intensity. The report defines architectural-program characteristics for typical large hospitals, thereby defining a prototype model; creates baseline energy models for each climate zone that are elaborations of the prototype models and are minimally compliant with Standard 90.1-2004; creates a list of energy design measures that can be applied to the prototype model to create low-energy models; uses industry feedback to strengthen inputs for baseline energy models and energy design measures; and simulates low-energy models for each climate zone to show...

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