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Ashrae Energy Design Guide

The Advanced Energy Design Guides (AEDGs) are a series of publications designed to provide recommendations for achieving zero energy buildings or building energy savings over the minimum code requirements of ANSI/ASHRAE/IES Standard 90.1. A zero energy building

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is defined as a building that, on an annual basis, draws from outside resources equal or less energy than it provides using on-site, renewable energy sources.

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## AEDG - Advanced Energy Design Guides - ASHRAE

The ASHRAE Advanced Energy Design Guides (AEDG) are a series of publications designed to provide recommendations for achieving energy savings over the minimum code requirements of ANSI/ASHRAE/IES Standard 90.1. This is the first step in the process toward achieving a net zero energy building, which is defined as a building that, on an annual basis, draws from outside resources equal or less energy than it provides using on-site, renewable energy sources.

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## ASHRAE Advanced Energy Design Guides

Advanced Energy Design Guide for Small to Medium Office Buildings: Achieving Zero Energy, provides direction for designing and constructing zero energy office buildings in all climate zones. The guide was developed by ASHRAE, the American Institute of Architects (AIA), the Illuminating Engineering Society (IES), the U.S. Green Building Council (USGBC) with support and funding from the U.S.

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Department of Energy (DOE) through the National Renewable Energy Laboratory (NREL).

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The Advanced Energy Design Guides (AEDG) are a series of publications designed to provide recommendations for achieving either a zero energy building or energy savings over the minimum code requirements in ANSI/ASHRAE/IES Standard 90.1. A zero energy building is defined as a building that, on an annual basis, draws from outside resources equal or less energy than it provides using on-site, renewable energy sources.

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Advanced Energy Design Guide FAQs - ASHRAE

The four-color Guides offer contractors and designers the tools, including recommendations for practical products and off-the-shelf technology, needed for achieving a zero energy building which is defined as a building that, on an annual basis, draws from outside resources equal or less energy than it provides using on-site renewable energy sources. These Guides have been developed through the collaboration of ASHRAE, the American Institute of Architects (AIA),

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The Advanced Energy Design Guide series provides a sensible approach to easily achieve advanced levels of energy savings without having to resort to detailed calculations or analysis. The four-color Guides offer contractors and designers the tools, including recommendations for practical products and off-the-shelf technology, needed for achieving a 50% energy savings compared to buildings that meet the minimum requirements of ANSI/ASHRAE/IESNA Standard 90.1-2004.

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Advanced Energy Design Guides - 50 Percent. The 50% AEDGs provide practical approaches to achieve 50% energy savings compared to base

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code requirements. Download them free from ASHRAE: Small to Medium Office Buildings. K-12 School Buildings.

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Advanced Energy Design Guides | Department of Energy  
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ASHRAE Indoor Air Quality Guide

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ASHRAE. The Advanced Energy Design Guides are a series of books about offices, hospitals, schools, retail, and other types of buildings. The books promote energy efficiency and describe how to achieve advanced levels of energy savings.

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Advanced Energy Design Guide for Large Hospitals - 50% ...  
This guide provides an overview of best practices for energy-efficient data center design which spans the categories of Information Technology (IT) systems and their environmental conditions, data center air management, cooling and electrical systems, on-site generation, and heat recovery.

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Best Practices Guide for Energy-Efficient Data Center Design  
This is an ASHRAE Design Guide. Design Guides are developed under ASHRAE's Special Publication procedures and are not consensus documents. This document is an application manual that provides voluntary recommendations for consideration in achieving greater levels of energy savings relative to minimum standards.

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Small Office Buildings

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ASHRAE 189.1 Standard for the design of high-performance green buildings • Section 7.4.3.7 - Variable Speed Fan Control - In addition to the requirements in [ASHRAE] Standard 90.1, commercial kitchen



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type I and type II hoods shall have variable speed control for exhaust and make-up air fans to reduce hood

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## ASHRAE - Energy Efficient Kitchen Design

This Guide was developed through cooperation of ASHRAE and the U.S. Department of Energy. In an effort to promote building energy efficiency, ASHRAE and DOE are making this Guide available for download (PDF) at no charge.

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## ASHRAE Refrigeration Commissioning Guide

It is strongly recommended that the OPR arising from the commissioning process includes the following information: targeted energy labels and/or energy ratings like Building eQ (ASHRAE 2011), Leadership in Energy and Environmental Design (LEED) (USGBC 2011), any constraints imposed by the site, code, or planning agreements with the city and pre-existing standards, if any.

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"Designed to provide recommendations for achieving 50% energy savings over the minimum code requirements of ANSI/ASHRAE/IESNA Standard 90.1-2004 for K-12 school buildings; allows contractors, consulting engineers, architects, and designers to easily achieve advanced levels of energy savings without having to resort to detailed calculations or analyses"--Provided by publisher.

"Provides guidance for using ANSI/ASHRAE/IESNA Standard 90.1-1999, Energy Standards for Buildings Except Low-Rise Residential Buildings, as a benchmark to build new schools that are 30% more energy efficient"--Provided by publisher.

Net Zero energy is a topic that is trending in the construction industry. A sector of this Net Zero movement garnering attention is K-12 public school construction. Compared to other buildings, schools can achieve Net Zero Energy status more readily. Few governments have established initiatives to incorporate and implement Net Zero strategies in school design and construction. There are already 20 Net Zero schools in the US and the number is increasing rapidly. The state of Florida has many energy efficient schools but a Net Zero energy school has not been achieved in this part of the country. In this study, we discuss energy efficient design strategies for the schools

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and areas to be targeted in order to reduce the energy consumption based on ASHRAE's Advanced Energy Design Guide (Achieving 50% energy savings). Three case studies of popular Net Zero Schools in the country is also included. Energy performance of Alachua County's Meadowbrook Elementary School (K-5), which can achieve Net Zero Energy status with some proven and effective practices, is also discussed. Further recommendations could eliminate the gap between design and use with the help of energy modelling and simulation. Renewable energy production is provided by taking advantage of the Florida climate zone. The suggestions reviewed and applied in this paper will establish guidelines to all the prospective Net Zero energy schools in general and the Florida based schools in particular.

"Designed to provide recommendations for achieving 50% energy savings over the minimum code requirements of ANSI/ASHRAE/IESNA Standard 90.1-2004 for large hospitals; allows contractors, consulting engineers, architects, and designers to easily achieve advanced levels of energy savings without having to resort to detailed calculations or analyses"--

"A guide to assist designers, contractors, and engineers in constructing and maintaining buildings in cold-climate environments.

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Provides practical advice on the unique challenges faced when trying to maintain human comfort and energy-efficiency in cold, subarctic, and arctic climates"--

"The second edition of this guide provides design guidance for cool thermal storage solutions. The guide compares different types of storage, particularly ice and chilled-water storage, and walks practitioners through every step in the design process from project initiation to commissioning and occupancy"--

"This book represents the most complete guidance on the design, installation, and operation and management of DOAS in nonresidential applications. With this book, any HVAC designer will be able to optimally incorporate a DOAS into their design. Architectural designers, building developers and owners, maintenance professionals, students, teachers, and researchers may also find the contents useful"--

"Provides information on green-building design. Concerned with sustainable, high-performance projects"--

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