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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.

ASHRAE Advanced Energy Design Guides

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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ASHRAE Design Guide for Air Terminal Units provides detailed guidance for selection, application, control, and commissioning of a common element in all-air HVAC systems--the air terminal unit (ATU). It was written with a view toward current codes, standards, and design practices and is intended to aid design engineers in sizing units while maximizing occupant comfort and energy efficiency.

ASHRAE Design Guides

The resource, Advanced Energy Design Guide for K-12 School Buildings – Achieving Zero Energy, is the first in a series of guides that is tailored to the design and creation of zero energy buildings. The guides are 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. Department of Energy (DOE) through the National Renewable Energy Laboratory (NREL).

New Advanced Energy Design Guide Available to ... - ASHRAE

The Advanced Energy Design Guides (AEDGs) accelerate the construction of energy-efficient buildings by providing prescriptive solutions to achieve significant energy savings over minimum building energy codes. The AEDG project represents a partnership between the U.S. Department of Energy (DOE), ASHRAE, American Institute of Architects, U.S. Green Building Council, and the Illuminating Engineering Society of North America (IES).

Advanced Energy Design Guides | Department of Energy

The Advanced Energy Design Guide—Achieving Zero Energy series provides a cost effective approach to achieve advanced levels of energy savings. 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 ...

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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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energy use by 30 to 50% with existing technology, which is ... ASHRAE Lab Guide-2001 : 4-12 ; The ASHRAE Laboratory Design Guide includes suggestions relating to the following: • Minimum supply air changes • Minimum exhaust air changes • Minimum outdoor air changes

LABORATORIES FOR THE 21ST CENTURY BEST PRACTICE GUIDE

ASHRAE is taking the lead by publishing—in partnership with the American Institute of Architects (AIA), the Illuminating Engineering Society (IES), and the U.S. Green Building Council (USGBC) and with financial and technical support from the U.S. Department of Energy (DOE)—a new series of advanced energy design guides (AEDGs) focused on zero energy buildings. Advanced Energy Design Guide for K-12 School Buildings: Achieving Zero Energy (K-12 ZE AEDG) is the first in the series.

New Advanced Energy Design Guide for K-12 ... - ashrae.org

Design Build - Executing the Project based on the ASHRAE Design Build Survival Guide

Design Build - Executing the Project based on the ASHRAE Design Build Survival Guide

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.

ASHRAE Advanced Energy Design Guides

The development of this design guide on underfloor air distribution (UFAD) is the result of a cooperative research agreement between the American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc. (ASHRAE), and the Center for the Built Environment (CBE) at the University of California, Berkeley, for ASHRAE Research Project ...

Underfloor Air Distribution (UFAD) Design Guide

This chapter discusses design considerations for components, system performance requirements, and applications for secondary coolants. Related information can be found in Chapters 3, 4, 22, 30, and 31 of the 2017 ASHRAE Handbook—Fundamentals.

CHAPTER 13. SECONDARY COOLANTS IN ... - handbook.ashrae.org

ASHRAE is relying on its own technical information to create this net-zero-energy-ready office. The maximum demand side site EUI for the building ideally would be 21.4 kBtu/ft²·yr, consistent with the energy targets in the Advanced Energy Design Guide for Zero Energy Office Buildings, according to the owner's project requirements (OPR).

Mission Possible: ASHRAE's New Global HQ - HPB Magazine

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ASHRAE Indoor Air Quality Guide

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.

ASHRAE Refrigeration Commissioning Guide

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