



# ACHIEVING ZERO ENERGY

## **Advanced Energy Design Guide for Small to Medium Office Buildings**

Developed by:  
ASHRAE  
The American Institute of Architects  
Illuminating Engineering Society  
U.S. Green Building Council  
U.S. Department of Energy



# Ashrae Energy Design Guide

**Heinz R. Trechsel**



## **Ashrae Energy Design Guide:**

**Advanced Energy Design Guide for Small to Medium Office Buildings**, 2011 Advanced Energy Design Guide for Small to Medium Office Buildings is the first in a series designed to provide recommendations for achieving 50% energy savings over the minimum code requirements of ANSI ASHRAE IESNA Standard 90.1-2004. The energy savings target of 50% is the next step 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. ANSI ASHRAE IESNA Standard 90.1-2004 provides the fixed reference point and serves as a consistent baseline and scale for all of the 50% Advanced Energy Design Guides. This Guide focuses on small to medium office buildings up to 100,000 ft<sup>2</sup>. Office buildings include a wide range of office types and related activities such as administrative, professional, government, bank or other financial services, and medical offices without medical diagnostic equipment. These facilities typically include all or some of the following space types: open plan and private offices, conference and meeting spaces, corridors and transition areas, lounge and recreation areas, lobbies, active storage areas, restrooms, mechanical and electrical rooms, stairways, and other spaces. This Guide does not cover specialty spaces such as data centers which are more typical in large office buildings. The specific energy saving recommendations in this Guide are summarized in a single table for each climate zone and will allow contractors, consulting engineers, architects, and designers to easily achieve advanced levels of energy savings without detailed energy modeling or analyses. In addition, this Guide provides a greater emphasis on integrated design as a necessary component in achieving 50% energy savings and devotes an entire chapter to integrated design strategies that can be used by teams who do not wish to follow the specific energy saving recommendations.

**Designing Green Networks and Network Operations** Daniel Minoli, 2011-04-25 In recent years, socio-political trends toward environmental responsibility and the pressing need to reduce Run the Engine (RTE) costs have resulted in the concept of Green IT. Although a significant amount of energy is used to operate routing, switching, and transmission equipment, comparatively less attention has been paid to Green Networking.

**Air-conditioning System Design Manual** Walter T. Grondzik, 2007 The Air Conditioning Manual assists entry level engineers in the design of air conditioning systems. It is also usable in conjunction with fundamental HVAC resource material as a senior or graduate level text for a university course in HVAC system design. The manual was written to fill the void between theory and practice to bridge the gap between real world design practices and the theoretical calculations and analytical procedures or on the design of components. This second edition represents an update and revision of the manual. It now features the use of SI units throughout, updated references, and the editing of many illustrations. Helps engineers quickly come up with a design solution to a required air conditioning system. Includes issues from comfort to cooling load calculations. New sections on Green HVAC systems deal with hot topic of sustainable buildings.

**Advanced Energy Design Guide for K-12 School Buildings**, 2008 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 **Advanced Energy Design Guide for Highway Lodging** American Society of Heating, Refrigerating and Air-Conditioning Engineers, 2009-01-01 Fifth in a series that provides recommendations for achieving 30% energy savings over minimum requirements of ANSI ASHRAE IESNA Standard 90.1-1999 for small hotels and motels Helps achieve advanced energy savings without detailed calculations or analyses Includes recommendations for all 8 U.S. climate zones Provided by publisher **Advanced Energy Design Guide for Large Hospitals**, 2012 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 *NEED for LEED I* Ali Al-Dimshawy, 2022-12-04 Written by real life Sustainability Experts and utilizing a real life project experience this 20 minutes read explains the necessity and feasibility of adopting a solid Sustainability Rating System i.e. LEED **Deep Energy Retrofit** Alexander Zhivov, Rüdiger Lohse, 2020-07-13 This book provides detailed information on how to set up Deep Energy Retrofits DERs in public buildings and shares in depth insights into the current status of the major technologies strategies and best practice examples of how to cost effectively combine them Case studies from the U.S.A and Europe show that that Deep Energy Retrofit can be achieved with a limited core technologies bundle readily available on the market Characteristics of some of these core technology measures depend on the technologies available on an individual nation's market on the minimum requirements of national standards and on economics as determined by a life cycle cost analysis Also requirements to building envelope related technologies e.g. insulation levels windows vapor and water barriers and requirements for building airtightness depend on specific climate conditions This Guide provides best practice examples of how to apply these technologies in different construction situations High levels of energy use reduction using core technology bundles along with improvements in indoor climate and thermal comfort can be only achieved when a Deep Energy Retrofit adopts a quality assurance process In addition to design construction commissioning and post occupancy phases of the quality assurance process the Guide emphasizes the importance of clearly and concisely formulating and documenting the Owner's goals expectations and requirements for the renovated building during development of the statement of work Another important component of the quality assurance process is a procurement phase during which bidders qualifications their understanding of the scope of work and its requirements and their previous experience are analyzed The building sector holds the potential for tremendous improvements in terms of energy efficiency and reducing carbon emissions and energy retrofits to the existing building stock represent a significant opportunity in the transition to a low carbon future Moreover investing in highly efficient building materials and systems can replace long term energy imports contribute to cost cutting and create a wealth of new jobs Yet while the technologies

needed in order to improve energy efficiency are readily available significant progress has not yet been made and best practices for implementing building technologies and renewable energy sources are still relegated to small niche applications

Offering essential information on Deep Energy Retrofits the book offers a valuable asset for architects public authorities project developers and engineers alike **Advanced Energy Design Guide for Small Office Buildings** American Society of Heating, Refrigerating and Air-Conditioning Engineers,Illuminating Engineering Society of North America,2004 Achieving 30% energy savings over ANSI ASHRAE IESNA standard 90 1 1999 **Advanced Energy Design Guide for K-12 School Buildings** ASHRAE (Firm),2018 Provides recommendations for achieving a net zero energy K 12 school building allows contractors consulting engineers architects and designers to easily achieve advanced levels of energy savings without resorting to detailed calculations or analyses **Advanced Energy Design Guide for Small Warehouses and Self-storage Buildings** American Society of Heating, Refrigerating and Air-Conditioning Engineers,2008-01-01 Fourth in series that provides recommendations for achieving 30% energy savings over minimum requirements of ANSI ASHRAE IESNA Standard 90 1 1999 for warehouses up to 50 000 ft<sup>2</sup> and self storage buildings using heating and AC equipment Helps achieve advanced energy savings without detailed calculations or analyses Includes recommendations for all 8 US climate zones Provided by publisher **Lighting Retrofit and Relighting** James R. Benya,Donna J. Leban,2011-03-08 The ultimate guide to the retrofitting of lighting for greater efficiency and performance Retrofitting outdated energy guzzling lighting components with green energy saving alternatives is a process that promotes sustainability and offers significant benefits for businesses contractors and the community at large Not only can retrofitting improve the overall quality and functionality of light it also can make spaces safer easier and less costly to maintain and more comfortable to inhabit From lighting technology to retrofit financial analysis Lighting Retrofit and Relighting evaluates the latest lighting system types then demonstrates how to apply them for the greatest functional and cost saving benefit This book Discusses the recent advances in lighting equipment and retrofittable controls for both interior and outdoor use Explains how to do a lighting audit to identify and evaluate logical retrofit choices Includes case studies of retrofits illustrating improvements in the quality and efficacy of new lighting Demonstrates how cost savings realized over time can not only pay for new equipment but produce a return on the investment Lighting Retrofit and Relighting serves as an ideal reference for students or professionals whether they are energy auditors designers installers facilities managers or manufacturers by taking a close look at the most current lighting technology illuminating pathways toward a brighter future **Technical Support Document** ,2006 The Advanced Energy Design Guide for Small Retail Buildings AEDG SR was developed by a partnership of organizations including the American Society of Heating Refrigerating and Air Conditioning Engineers ASHRAE the American Institute of Architects AIA the Illuminating Engineering Society of North America IESNA the United States Green Buildings Council USGBC and the Department of Energy DOE The guide is intended to offer recommendations to achieve 30% energy savings and thus to

encourage steady progress towards net zero energy buildings The baseline level energy use was set at buildings built at the turn of the millennium which are assumed to be based on ANSI ASHRAE IESNA Standard 90.1-1999 Energy Standard for Buildings Except Low Rise Residential Buildings refer to as the Standard in this report ASHRAE and its partners are engaged in the development of a series of guides for small commercial buildings with the AEDG SR being the second in the series Previously the partnership developed the Advanced Energy Design Guide for Small Office Buildings Achieving 30% Energy Savings Over ANSI ASHRAE IESNA Standard 90.1-1999 which was published in late 2004 The technical support document prepared by PNNL details how the energy analysis performed in support of the Guide and documents development of recommendation criteria

**Advanced Energy Design Guide for Large Hospitals**, 2014-05-14 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 **Federal Register**, 2013-07

Advanced Energy Design Guide for K-12 School Buildings ASHRAE (Firm), 2018 Provides recommendations for achieving a net zero energy K-12 school building allows contractors consulting engineers architects and designers to easily achieve advanced levels of energy savings without resorting to detailed calculations or analyses **Heating, Ventilating, and**

**Air-conditioning Design Guide for Department of Energy Nuclear Facilities**, 1993 Learn to design HVAC systems for nuclear facilities that meet DOE criteria This is the only definitive guide that currently exists with respect to HVAC design Information that will satisfy code and regulatory requirements contributions from contractor reps from each of the seven major DOE sites and specific recommendations for points of confusion that have existed for over 20 years ASHRAE Handbook, 1996

*Moisture control in buildings* Heinz R. Trechsel, 1994 Advanced Energy Design Guide for Small Hospitals and Healthcare Facilities American Society of Heating, Refrigerating and Air-Conditioning Engineers, 2009-01-01 Sixth in a series that provides recommendations for achieving 30% energy savings over minimum requirements of ANSI ASHRAE IESNA Standard 90.1-1999 for small hospitals and healthcare facilities Helps achieve advanced energy savings without detailed calculations or analyses Includes recommendations for all 8 U.S. climate zones Provided by publisher

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