

50%

# Advanced Energy Design Guide for Medium to Big Box Retail Buildings

Achieving 50% Energy Savings

Presented as Best Green Energy Building



Developed by  
American Council on Energy Efficiency and the GreenSource Program  
The GreenSource Program is a national  
partnership between the U.S. Department of Energy  
and the GreenSource Program  
to promote energy efficiency

# Ashrae Advanced Energy Design Guide

**ASHRAE (Firm)**



## **Ashrae Advanced Energy Design Guide:**

**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 to Medium Office Buildings ASHRAE (Firm),AUTHOR UNKNOWN., Provides recommendations for achieving a net zero energy small or medium office 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 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 **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 Advanced Energy Design Guide for Multifamily Buildings ASHRAE (Firm),2022 Provides recommendations for achieving a net zero energy multifamily 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 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

**Development of the Advanced Energy Design Guide for K-12 Schools -- 50% Energy Savings**, 2013 This Technical Support Document TSD describes the process and methodology for the development of the Advanced Energy Design Guide for K-12 School Buildings Achieving 50% Energy Savings Toward a Net Zero Energy Building AEDG K12 ASHRAE et al 2011a The AEDG K12 provides recommendations for achieving 50% whole building energy savings in K-12 schools over levels achieved by following ANSI ASHRAE IESNA Standard 90.1-2004 Energy Standard for Buildings Except Low-Rise Residential Buildings Standard 90.1-2004 ASHRAE 2004b The AEDG K12 was developed in collaboration with the American Society of Heating Refrigerating and Air Conditioning Engineers ASHRAE the American Institute of Architects AIA the Illuminating Engineering Society of North America IES the U.S. Green Building Council USGBC and the U.S. Department of Energy DOE *Strategies and Recommendations Based on ASHRAE Advanced Energy Design Guide 50 Percent Savings to Achieve Net Zero Energy for K-12 School Buildings in the State of Florida* Ruthwik Reddy Pasunuru, 2014 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 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 *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 **LEED GA Exam Guide (3rd Large Format Edition)** Gang Chen, 2011 From this book you will learn

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