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for achieving zero energy buildings or building energy savings over the minimum code requirements of ANSI/ASHRAF/IFS 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-Page 11/45

site, renewable energy sources.

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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 Page 13/45

less energy than it provides using onsite, renewable energy sources.

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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 Page 15/45

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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 onsite, renewable energy sources.

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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 Page 19/45

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50% energy savings compared to buildings that meet the minimum requirements of ANSI/ASHRAE/IESNA Standard 90.1-2004.

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IECC and ASHRAE Standard 90.1
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provides provisions for building envelope, HVAC, service water heating, power, lighting and appliances. This contractor's resource guide

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Construction and Commissioning : New Registrants ...

ASHRAE Indoor Air Quality Guide A free download (PDF) of this book is available from the publisher, ASHRAE. The Advanced Energy Design Guides Page 29/45

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.

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 manage-Page 31/45

ment, cooling and electrical systems, on-site generation, and heat recovery.

Best Practices Guide for Energy-Efficient Data Center Design This is an ASHRAE Design Guide. Design Guides are developed under Page 32/45

ASHRAE's Special Publication procedur es and are not consensus documents. This document is an application manual that provides voluntary recommeda- tions for consideration in achieving greater levels of energy savings relative to minimum standards.

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Design Guide Project Update 2. De?nitionofDOAS. A dedicated outdoor air system (DOAS) uses separate equipment to condition all of the outdoor air brought into a building for ventilation and delivers it to ...

ASHRAEDesignGuidefor DedicatedOutdoorAir Systems ASHRAF 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] Standa rd 90.1, commercial kitchen type I and Page 38/45

type II hoods shall have variable speed control for exhaust and makeup air fans to reduce hood

ASHRAE - Energy Efficient Kitchen Design This Guide was developed through Page 39/45

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

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

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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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