

Data Center Energy Rating Standards



Overview

The European Commission's Second Technical Report ("Assessment of next steps to promote the energy performance and sustainability of data centres in the EU", 2025) lays out a practical, evidence-based pathway to a harmonised EU rating scheme, minimum performance. The European Commission's Second Technical Report ("Assessment of next steps to promote the energy performance and sustainability of data centres in the EU", 2025) lays out a practical, evidence-based pathway to a harmonised EU rating scheme, minimum performance. The European Commission's Directorate-General for Energy has commissioned a study to support the development of minimum performance standards for data centres in Europe, aligned with the existing EU reporting requirements and the planned introduction of a rating scheme. This page presents the study. erence calls, writing drafts, drawing figures, and editing and reviewing text. Thanks also to Jon Fit the white paper and for his leadership of the ASHRAE TC9. Special thanks also to Dave Kelley (Emerson), Paul Artman (Lenovo), John Groenewold (Chase), William Brodsky (IBM). 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, and heat recovery. STANDARD from TÜV NORD supports data centers in implementing energy efficiency and sustainability in accordance with the Climate Neutral Data Center Pact and the Energy Efficiency Act. It offers a modular system for compliance with EU directives and ISO 50001:2018 to demonstrate CO2.



Article Content

Jan 09, 2026

Microsoft Word

1.2 Background – Guiding Principles for Data Center Efficiency Metrics As business demands and energy costs for data centers rise, owners and operators have focused on the energy efficiency of

Sep 20, 2025

Engineered Systems NEWS | ACHR News

From tree forts to global standards, new ASHRAE president Bill McQuade is shaking up the HVAC world with a vision that puts human health and comfort front and center.

Aug 23, 2025

Data Center Equipment

Data Center Equipment Over the course of the past decade, the biggest advancements in data center energy efficiency have taken place in the data

Aug 18, 2025

What is Energy Star for Data Centers?

Ron Vokun of Gray Construction, in his continuing series on green data centers, covers the pros and cons of Energy Star for Data Centers and concludes with some discussion of which

Sep 12, 2025

The EU's Energy Efficiency Directive and Its Impact on Datacenters

The European Commission to assess, by May 15, 2025, the data and report to the EU Parliament and Council, potentially proposing further energy efficiency measures, including minimum performance

Apr 27, 2026

ASHRAE Standard 90.4 – Energy Standard for Data

ASHRAE Standard 90.4 plays a pivotal role in guiding the design and operation of energy-efficient data centers, addressing the specific demands of

Sep 05, 2025

Standardisation landscape for the energy management and

This Annex provides information regarding the standards/initiatives within ESO, international standards bodies and other fora relating to the energy management and environmental viability aspects of the

Oct 03, 2025

ANSI/ASHRAE Addendum a to ANSI/ASHRAE Standard 90.4-2016

Energy Standard for Data Centers Approved by the ASHRAE Standards Committee on January 20, 2018; by the ASHRAE Technology Council on January 24, 2018; and by the American

May 20, 2026

ASHRAE TC9.9 Data Center Power Equipment Thermal Guidelines

Data Center Power Equipment Thermal Guidelines and Best Practices Whitepaper created by ASHRAE Technical Committee (TC) 9.9 Mission Critical Facilities, Data Centers, Technology Spaces, and

Aug 26, 2025

ASHRAE Data Center Resources | Data Centers

An essential for professionals in data center design and operations. Keep up to date with the latest in standards and guidance on cooling, energy, humidity, and smart

Dec 21, 2025

Energy-efficient data centers - TSE.STANDARD | TÜV

The TSE.STANDARD from TÜV NORD supports data centers in implementing energy efficiency and sustainability in accordance with the Climate Neutral Data

Aug 01, 2025

Key Data Center Design Standards, From NFPA to

Discover how data center design standards enhance your center's efficiency, reliability, & sustainability while meeting energy & environmental

May 13, 2026

Data Centre Facilities Explained (2025): Standards,

Facility design and operation align with standards: Uptime Institute Tiers, TIA-942-C, ISO/IEC 22237, and BICSI 002. These frameworks govern

Aug 09, 2025

Energy Standard for Data Centers

Energy Standard for Data Centers Approved by the ASHRAE Standards Committee on June 29, 2016; by the ASHRAE Board of Directors on June 29, 2016; and by the American National Standards

Oct 07, 2025

What EU New Data Centre Rating Scheme Means for

Data centres are central to Europe's digital economy and increasingly central to its energy and climate policy. The European Commission's Second

Nov 18, 2025

What EU New Data Centre Rating Scheme Means for

A common EU new data centre rating scheme. A multi-criteria label that assesses energy efficiency, renewable sourcing, heat reuse, water use,

Aug 04, 2025

Navigating the Energy Efficiency Directive (EED): What Data Centre ...

Compliance with EN50600-4 KPIs: Data centre operators will be required to comply with four of the eight EN50600-4 KPIs, which are a set of standards for measuring and reporting on the energy efficiency

Dec 01, 2025

Energy Management and Environmental Viability of Data Centres

It summarises the current standardisation landscape and references the relevant standards, both published and in preparation, in relation to data centres energy management within three ESOs.

Jan 25, 2026

Minimum performance standards for EU data centres

The European Commission's Directorate-General for Energy has commissioned a study to support the development of minimum performance standards for data centres in Europe, aligned with the existing

Oct 03, 2025

Improving Data Center Energy Efficiency with ENERGY STAR

Ten years ago, data center energy use was predicted to grow exponentially as digital computing expanded. However, gains in energy efficiency—both at the network hardware and storage level, as

May 23, 2026

Data Center Standards: Guidelines for Operational

Uncover the critical data center standards that guide the design, construction, and operation of facilities for optimal performance and security.

Aug 09, 2025

Best Practices Guide for Energy-Efficient Data Center Design

This guide concludes with a section on metrics and benchmarking values by which a data center and its systems energy efficiency can be evaluated. No design guide can offer “the most energy-efficient”

May 30, 2026

Data center policies in the EU

As data centers are projected to account for more than 3% of the European Union's (EU) total electricity demand by 2030, the EU is developing a sustainability rating scheme for data centers under the

Jun 26, 2025

Data Centre Energy Efficiency Labels

Data centre energy performance may change with time so the label rating needs to be reviewed periodically and the label needs to show the year of the most recent assessment.

Oct 16, 2025

Best Practices Guide for Energy-Efficient Data Center Design

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

Apr 06, 2026

Decoding Data Center Efficiency Metrics: A Guide to

A free guide to understanding and applying key data center efficiency metrics – from PUE to Scope 3 emissions and beyond.

Mar 03, 2026

Energy performance of data centres

As part of the new impetus for the energy efficiency, the Commission is preparing a Data Centre Energy Efficiency Package. It will contain an

Jul 24, 2025

Navigate Energy Star data center standard and certification

Data center and facility managers can use the Energy Star standard to improve energy efficiency, identify green equipment and become Energy Star

Nov 10, 2025

Standards and Guidelines

Standards and Guidelines Share This Updated and Improved Standards Review Database The online standards review database has been updated to provide

Aug 15, 2025

ENERGY STAR

Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

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