

Trusted Site eEfficiency for data centers



Reduction of energy costs

The Trusted Site eEfficiency (TSe²) audit and certification program of TÜViT supports the operators of data centers in developing systems and processes that allow the continuous improvement of their energy efficiency. It defines measures and structures based on the international standard for energy management systems (DIN EN/ISO 50001) and implements best practices from the EU Code of Conduct.

With TSe², TÜViT offers periodic inspections and audits with certification of the maturity level. This identifies savings achieved, and promotes sustained optimization of energy efficiency.

Your benefits

- ✓ Optimization of energy use and thus reduction of energy costs
- ✓ Systematic inventory of energy-consuming components
- ✓ Possible extension of the energy management system to the entire company, and subsequent simplified ISO 50001 certification
- ✓ Market perception as a Green IT company

We create trust

TÜV®



TÜV NORD GROUP

Efficient energy use in data centers

Our services at a glance

- Assessment of the existing energy management system (EnMS)
- Verification and evaluation of an energy monitoring system
- Calculation of the values Power Usage Efficiency (PUE) and Energy Usage Efficiency (EUE)
- Implementation of best practice measures, integrating the EU “Code of Conduct”
- Verification of inventory of servers and applications, and energy-consuming components
- Assessment of the degree of virtualization
- Assessment of server capacity utilization and effectiveness

Plan

Level 1

- Verification of the energy management system (EMS)
- Definition of the status quo
 - Baseline energy and service utilization
 - Baseline PUE calculation
 - Recording components and applications of the technical building systems

Do

Level 2

- Establishing a comprehensive energy monitoring system
- Implementation of best practices
- Energy-saving measures (e.g. heat recovery, regenerative energies)

Check

Level 3

- Evaluation and continuous measurement for the purposes of calculating the EUE
- Individual technical testing of components
- Review of the degree of virtualisation

Act

Level 4

- Level 3 successfully certified
- Verification of energy efficiency improvement

Maturity level certification

The certification process does more than just determining the status quo. Thanks to the increasing requirements during maturity level certification and the introduction of an energy management system, companies continuously optimize the use of energy resources.

About us

TÜV Informationstechnik GmbH (TÜViT), a company of TÜV NORD GROUP with business activities in 70 countries worldwide, is one of the leading testing service providers for IT security. The company portfolio covers topics such as cyber security, software and hardware evaluation, Internet of Things/Industry 4.0, data privacy, ISMS, smart energy, automotive security, mobile security, eID and trust services. In addition, TÜViT audits and certifies data centers with regard to their physical security and high availability.

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