

Verification of energy efficiency optimization

ISO 50003 defines new requirements for ISO 50001 certification

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Verifiably improve your energy performance

ISO 50001 certification is becoming more and more important. It offers tax incentives and ensures compliance with legal requirements of the Federal Act on Energy Services (EDL-G) for all companies above the SME threshold.

The publication of ISO 50003 strengthens the series of standards on energy management and highlights verifiable energy efficiency improvement even more. Starting in the fall of 2017, measurements must substantiate that the energy-related performance has been continually improved over the baseline.

Energy performance indicators (EnPIs) are essential for monitoring and measuring energy performance. The EnPIs are regularly recorded, reviewed and compared with the energy baseline.

This comparison is used to draw conclusions and implement aimed at improving energy performance.

In addition to ISO 50003, two other standards were published: ISO 50006 for energy performance indicators,

and ISO 50015 for measurement and verification. These standards are designed to make it easier for companies to implement the requirements of ISO 50003.

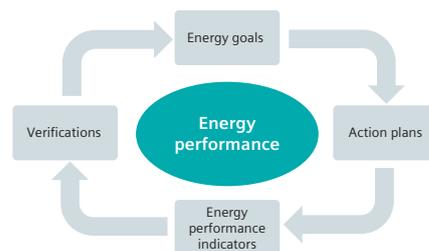
Companies face more stringent measurement and documentation requirements

The challenge for companies lies not only in optimizing their own processes, but also in verifying these optimization measures reliably and plausibly. ISO 50001 certification requires that energy efficiency gains be reviewed and confirmed by an auditor.

Yet many companies are still not prepared to measure and monitor their energy performance with sufficient accuracy.

Highlights

- Reliable verification with realistic effort
- Long-term experience with the introduction and operation of energy management systems
- Optimum time spend
- Transparent costs
- Support in achieving the more stringent requirements of ISO 50000 certifications



ISO 50001 certification focuses on verification of improved energy efficiency

Our offering: rely on technology plus expertise

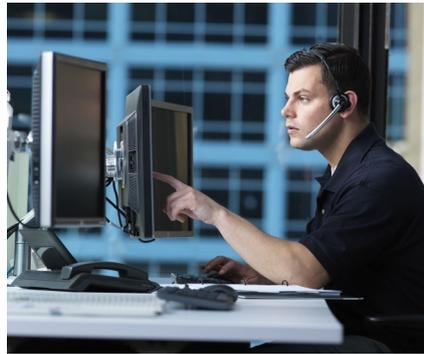
Siemens supports you in optimizing your energy facilities. We offer practical workshops illustrating how to best manage the process to verify improved energy performance. The workshop addresses the following topics:

- Review of strategic and operational energy goals in relation to the selected and appropriate energy baseline
- Definition of essential energy use, including using proven tools from Siemens for efficient balancing of systems and areas without altering building infrastructure or processes

After the workshop, we compile the results and document a suitable method for providing verification based on the requirements of ISO 50006 and ISO 50015.

This includes:

- Lean and targeted energy performance indicator system
- Procedures for calculating and measuring each planned and implemented measure



Your benefit: reliable verification at realistic effort.

Benefit from our years of experience in implementing and operating energy management systems. We minimize the required time and costs and keep you from being denied certification due to improper verification procedures, methods and performance indicators. Siemens offers tailor-made services to create your perfect place.

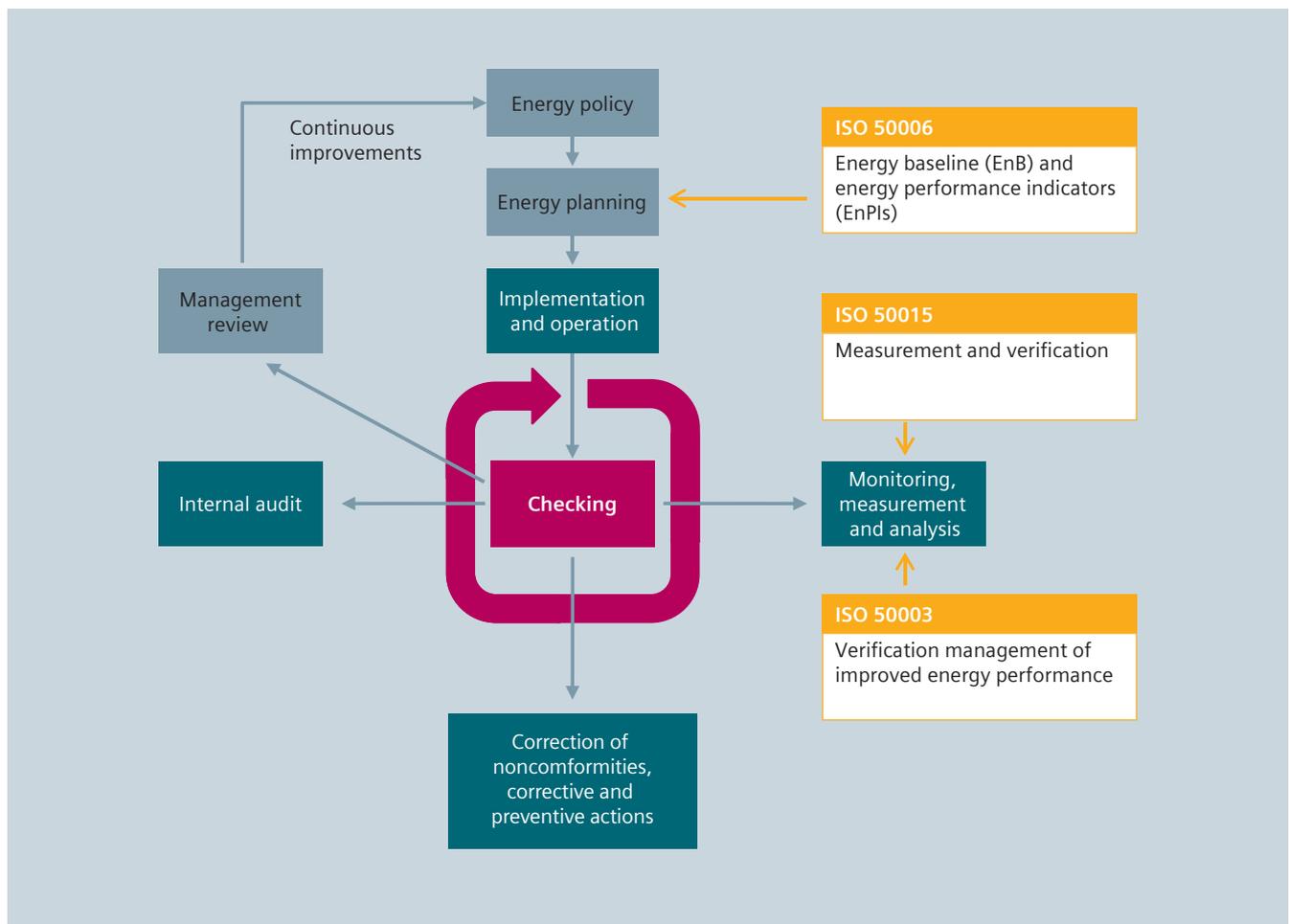
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- Integration of verification management into the documentation of the ISO 50001 management system

We also offer optional services, such as development of a methodology for determining energy performance indicators. We present suitable energy measurement technology and energy management software and show how energy consumption can be visualized. This helps customers to improve operational load management and optimize network charge.

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The extension to the ISO 50000 series tightens the requirements for the operation and certification of energy management systems.