

EMS Selection Guide

The choice of an energy management system should not be based solely on price. The decisive factors are a **company's individual requirements**, the **desired level of functionality**, **integration options** and **regulatory requirements** such as ISO 50001. Whilst modern EMSs are increasingly relying on artificial intelligence, real-time optimisation and cloud techno-

logies, data security, user-friendliness and scalability remain the most important decision-making factors. Companies should therefore adopt a **structured approach**, **draw up a clear requirements profile** and systematically **compare several providers** before making an investment decision.

1

DEFINE YOUR REQUIREMENTS

Before selecting an EMS, the following points should be clarified:



Is there an obligation to implement an energy management system in accordance with ISO 50001?



What are the objectives?

- Maximising self-consumption
- Reducing greenhouse gas emissions
- Reducing energy costs



Should the system merely record energy consumption, or should it also automatically control and optimise it?



Who will use the system?

- Energy management
- Facility management
- Technical services
- Controlling
- Management



Which companies or sites are to be included?



What budget is available for software, hardware, integration and service?

The spectrum ranges from simple Excel-based solutions to comprehensive cloud-based energy management platforms.

2

SELECTION PROCESS

Follow a structured approach to compare providers and make an informed investment decision.

**1. Draw up a requirements profile**

- Which functions are essential, and which are optional?

**2. Gain an overview of the market**

- Research suppliers (e.g. via the BAFA list, ISO 50001 references, trade fairs)

**3. Draw up a shortlist**

- Select 3–5 suppliers

**4. Evaluation and decision-making**

- Using an evaluation matrix (functionality, costs, support, expandability)

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WHAT SHOULD A MODERN EMS OFFER?

A modern EMS can cover the following areas:



data acquisition



data management



visualisation



reporting



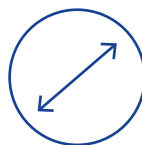
alarm functions



user management



integration

compliance and
auditing

scalability



real-time optimization