

## Energy monitoring system

Stimulate and accelerate the development of digital tools and functions that make it easier for property owners to have control over their energy and power use.

**Project name** Technology competition - Energy monitoring system for property owners

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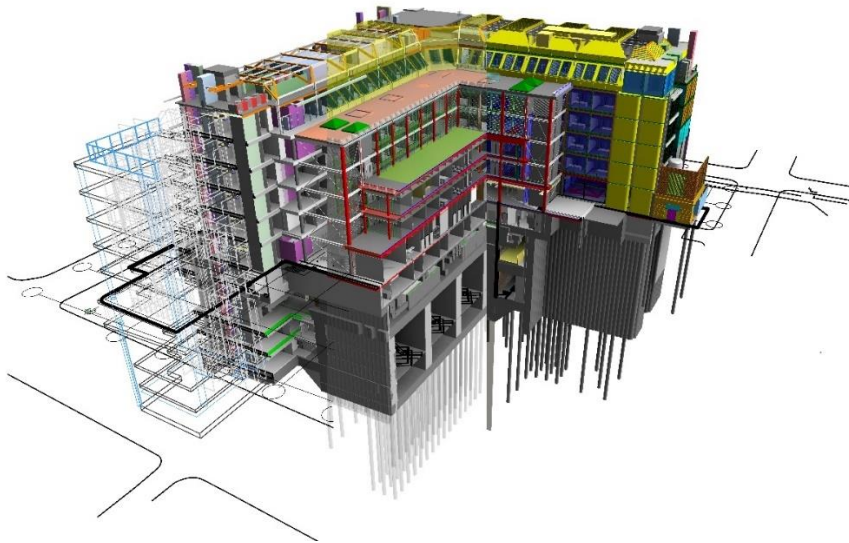
**Project time** Preparations started in 2021

The project is ongoing until the summer of 2023

**Competition period** September 2022 to February 2023 (NOTE, not determined)

### Objects

- Create a requirements specification for energy monitoring systems
- Increased knowledge of energy monitoring tools and methods among property owners
- Better cooperation between customers and suppliers of energy monitoring systems
- Improved programs and functionalities for energy and power monitoring



Smart and user-friendly tools for energy and power monitoring. Increase awareness of energy use at different levels and in different roles. Help to achieving the organization's own energy efficiency goals by identifying where the potential for energy saving is.

Property owners within the Swedish Energy Agency's network Belok and BeBo inquires for developments of energy monitoring systems and functionalities so that these match their needs.

The purpose of the project is to stimulate and accelerate the development of digital tools and functions that make it easier for property owners to control their energy use. A technology competition is arranged based on a requirements specification that is produced in dialogue with property owners. Suppliers will, based on the requirements specification, develop energy monitoring systems based on the customers' needs.

## **The project is divided in three parts**

### **Part A: Competition conditions**

A requirements specification with requirements and wishes from a large number of property owners is created within the project.

The requirements will be sufficiently ambitious but also at a reasonable level, so that the solutions for monitoring energy use become cost-effective.

There will be a dialogue with suppliers about the reasonableness and level of ambition of the requirements specification.

Competition criteria including different categories are developed. In connection with this, also the structure for the dataset which the energy monitoring system will be tested against will be developed. The dataset consists of energy measurement data from a number of representative buildings.

### **Part B: Development phase (competition)**

During this phase, datasets are compiled and then shared with competition participants.

During the competition period, suppliers will improve and develop their existing and new solutions for energy monitoring based on the requirements specification. Improvement will mean better visualization, adaptation of functions and views to different roles / users, functionalities for power monitoring, possibility for traceability of deviations, better integration with other systems, increased reporting possibilities, smoother tariff and cost management, follow-up to specific energy goals and proactive / intelligent functions which facilitates the identification of deviations and which saves time for energy controllers.

### **Part C: Evaluation phase**

The energy monitoring systems will be reviewed by an expert group. During this phase, a demo presentation by the participants will also be made for the reference group.

An evaluation meeting will be held for the selection of qualified competition entries.

A final seminar with a presentation of selected systems is conducted.

### **Schedule for the competition (NOTE, not determined, preliminary)**

<b>Sep 2022</b>	The competition documents are sent out to those who have pre-registered, and the competition starts
	Start-up seminar with the opportunity to ask questions about the competition
<b>Feb 2023</b>	Deadline for submission of competition proposals
	Opportunity for supplementation
<b>March-April 2023</b>	Evaluation of incoming competition entries
<b>May 2023</b>	The results of the technology competition are announced and presented at an event

**Here you will find:**

- Presentation of the project
- Press release to suppliers

**Upcoming documents:**

The competition documents with instruction and specification for competitors.

All documents will be in Swedish. Se the website for download

**Do you want to know more about the background to the technology competition and the problems that the competition will solve?**

Here are reports from previous feasibility studies in the field:

- Energy monitoring methods and tools (Residential property) - feasibility study
- Energy monitoring methods and tools (Non-residential property) - feasibility study

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