

Economical energy management

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In Use Case 12, the ASCR is researching the optimal use of a Building Energy Management System (BEMS) for optimising the building's own consumption. To reduce CO2 emissions and stress the power grid as little as possible.

- 1st phase of the project (2013–2018):
Both **optimisation of consumption** and the **use of building flexibility to reduce the load on the grid** through BEMS can be implemented by means of a suitable building infrastructure.
- 2nd phase of the project (from 2019):
Focus on **economical expenditure in installation, configuration and operation**, as well as reliable operation in the long term. Research into the use of the building mass for storage and using BEMS as an interface between the building infrastructure and external energy services for future applications in a distributed energy system.

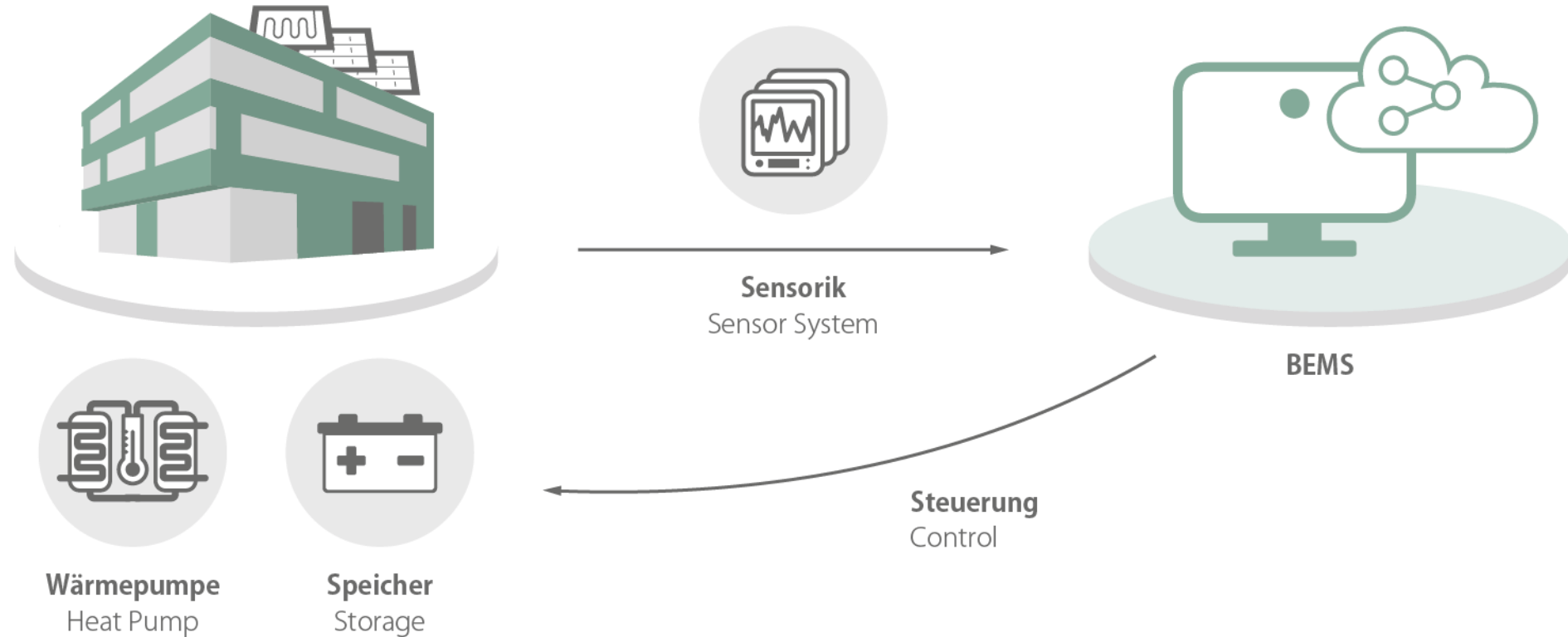
**Siemens, Wiener Netze,
Wien Energie**

Budget: 1.4 million Euro

Testbeds: Student hall of residence. Office building TZ2, office building SeeHub

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The benefits:

- Optimising a building's systems/assets (WP, PV, battery, ...)
- Simulation model for the installation of additional components for optimised energy consumption, with economic consideration of the entire life cycle
- End product: (more) intelligent building management technology