

AREA 21 + action

Updated profile of EID Helsingborg Hospital Area

What is this paper about?

AREA 21 + action follows up on AREA 21. In the predecessor project, the consortium developed the so-called Energy Improvement District (EID). The energy actors in these areas, including the local and regional authorities, energy providers, building owners as well as citizens, have participated through the EIDs in a cooperative energy planning process. This resulted in the development of EID Strategies and Action Plans to support improved energy efficiency.

AREA 21 + action provides the frame in which first measures from selected EIDs can be implemented and the potential of the EID concept to contribute meaningfully to both integrated energy planning and emissions reductions can be demonstrated.

This briefing paper shows how the EID Helsingborg Hospital Area approaches this task, i.e. how they implement their Action Plan developed in the predecessor project. For further information about the EID Helsingborg Hospital Area, please refer to <https://area21-project.eu/pilot-areas/helsingborg/>



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Achievements so far

Achievement 1: The Helsingborg Energy Improvement District has become a role model for cooperation in energy efficiency work, especially between a property owner and an energy utility. The partnership between

Region Skåne and Öresundskraft is used as a good example where both organisations can gain profit and develop by closely working together, while the energy efficiency work focuses on and involves all stakeholders – from policy makers to end users.

Achievement 2: At Helsingborg Hospital Area the stakeholders in the energy efficiency work have together developed a vision, strategy, and action plan on how to achieve energy savings. This work is the foundation of the cooperation and is led by the hospital director. The plan is to implement the way of working and following up on energy efficiency work in the overall agenda of the hospital, making energy one of the most important factors in development towards sustainability.

Achievement 3: The Helsingborg Hospital Area project team has developed an Energy Improvement Circle Tool, which is used to analyse the climate impact as well as economic profit in different ways of using energy. The focus here is to analyse how to reduce the power peaks of the energy usage, rather than looking traditionally at the general energy volume which are used. By reducing the power peaks when it is optimal from a system perspective, the climate impact will be lowered.

Vision and actions for the extension phase

The vision of the Helsingborg Hospital Area is an “Energy smart hospital for improved healthcare and reduced carbon footprint”. This was established during the first phase of the AREA 21 project but is now more relevant than ever. During the extension phase, the focus is to implement selected actions from the developed action plan. These actions are the first to be implemented at the hospital and will serve as starting point for the upcoming action work in the future.

Action 1: *Provide real-time energy data;* in other words, measure energy per second. It implies analysing and establishing the need for measurements, in close cooperation with the healthcare staff, hospital management and the real estate department. After this analysis there will most likely be a need for installing new meters and also a system to collect data in real-time format.

Action 2: *Benchmark different ways/programs of visualizing energy data.* This activity could also include physical presentation methods such as the use of VPboards. This will involve many of the stakeholders such as healthcare staff, real estate, IT-department, procurement, hospital management and if necessary, the energy supplier.

Action 3: *Visualize the specific energy use for each department and collect relevant data.* It is also needed to create relevant Key Performance Indicators (KPI's) for the hospital department(s) using the collected data and the chosen software, also including other physical presentation methods. It will involve healthcare staff, hospital management and real estate. Presenting the KPI's with the chosen software will also involve the IT-department. The plan is also to use the previous developed Energy Improvement Circle Tool to visualize climate impact of the energy usage.

Action 4: *Visualize possible progress in energy efficiency work to engage the staff,* both on the department level but also regarding the entire EID in an understandable way encouraging and involving hospital staff even more. Making the information understood and customized to the target groups (stakeholders) will involve almost all identified stakeholders.

Potentials and expected results

The overall goals of the Helsingborg Hospital Area are:

- to achieve an annual heat energy saving of more than 20% by 2030 with a parallel 30% increase of the facility area.
- to reduce the current annual energy use from 235 kWh/ m² per year to 177 kWh/ m² by 2030.

The actions that are in focus during the extension phase will act as a steppingstone for the forthcoming actions in the energy efficiency work. Therefore, the fulfilment of these actions is an important step to achieve the overall goals of the project and to realize this vision. By establishing a solid groundwork for energy data measurements as well as for visualizing the energy usage for hospital staff and leader board, the energy efficiency work has a good potential to bloom.

Besides the achievement of the actions, the plan in the second phase is also to maintain the established cooperation between the EID stakeholders. This will keep on involving the stakeholders in the energy efficiency work, which in the end hopefully creates a sense of ownership that keeps stakeholders actively involved by themselves.