Helsingborg Hospital Area

Energy Improvement District (EID) at a glance

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Location:	Helsingborg, Region Skåne, SE
Function:	Emergency hospital, 24/7
Area:	Building footprint: 0.025 km²
	overall facility area: 0.14 km²
Buildings:	Hospital building (constructed 1975)
	6 detached houses, garage
Staff:	3,000 employees
Beds:	350
Visitors:	362,000 per year
Ownership:	Public, owned by Region Skåne
Energy use:	235 kWh/ m² per year

Vision and goals

"Increased energy efficiency to improve health care and to reduce carbon footprint"

- 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.

Expected results

An upgrade of the hospital area as an "Energy Improvement District" will contribute to the fulfillment of the Region Skåne's 2030 Energy Strategy and of the Swedish national goal for climate neutrality by 2045. The project activities will build on the established long-term cooperation between Region Skåne and Öresundskraft to serve as an exemplary model for future collaboratively projects related to climate issues.

EID Potentials

The hospital area upgrade will include smart technologies to optimise energy consumption patterns; reduce peak loads; provide production-consumption models and demand-response solutions. By lowering energy use, losses and recycling residues, the hospital will reduce its carbon footprint and operating costs; providing more funds for health care investment. Surplus heat will be sold to Öresundskraft and redistributed in the city energy supply network. A new ICT-tool will be developed and tested in the hospital area to quantify the impact of demand-response solutions from both an economic and environmental perspective. The tool will reduce the total energy consumption in the area and will assist the distribution of the hospital's surplus energy to nearby buildings, thus integrating the hospital as part of the city energy network. As the tool is based on frequent metering data, employees will transparently see their energy use, to trigger their decision-making towards using less energy.

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