

MALMÖ

100% RENEWABLE ENERGY BY 2030

The city of Malmö has set the target to run on 100% renewable energy by 2030. To reach this goal, there are challenges to solve both related to real power capacity problems, and to avoid fossil-based production and imports at power peaks.

THE PILOT

The pilot built by Parkering Malmö will be a new parking facility in Sege Park, taking the role as a local energy hub in a new residential area. The building will have solar panels, parking spots with charging possibilities and an energy storage solution.

In the pilot, different optimisation scenarios will be tested, where the load control system will steer the energy loads of the building both to reduce the building's carbon footprint and to reduce the carbon footprint from the entire energy system in Malmö.

THE TARGETS

Malmö will run on **100%** renewable energy by 2030 and 15% will be solar.

The parking facility will produce **220 000 kWh** of energy a year and will be electrically self-sufficient between the 1st of May and the 30th of September.

20% of the parking spots will have charging outlets.

Local energy hubs like this pilot can play an important role in the future fossil-free energy system with more decentralised and intermittent energy sources. With storage possibilities in stationary batteries as well as electric cars, the parking facilities can act as aggregators and regulators in the local energy system, thus making better use of locally produced energy and decreasing the need for expensive and resource-demanding infrastructure expansions.

"Malmö aims at being a forerunner in reducing greenhouse gas emissions from cities, with a target of using 100% renewable energy by 2030. The ACCESS project gives us the opportunity to test solutions with a large potential of being scaled-up and used throughout Malmö."

Olof Liungman
Head of Environmental
Strategy, City of Malmö



THE TIMELINE

- Q1-Q2 2020 PROCUREMENT OF CONSTRUCTION WORK AND ENERGY SOLUTIONS
- Q2-Q4 2020 DEVELOPMENT AND DESIGN OF USE CASES AND SOFTWARE
- Q1 2021-Q2 2022 CONSTRUCTION PROCESS
- Q3 2022-Q2 2023 TESTS AND EVALUATION

Interreg
North Sea Region
ACCESS

European Regional Development Fund



EUROPEAN UNION