

BUILDINGS AND CAMPUS ISSUES

Chalmers will, with support from its own and others' research, provide information about, demonstrate and implement the possibility of distinctly reducing energy consumption in construction and in the operation and use of buildings. When buildings are renovated, newly constructed or rebuilt/converted, carbon emissions are to be reduced to the extent that the construction process and the operation are keeping pace, at least, with national and international climate targets.

Objectives: Between 2019 and 2023, emissions from construction, operation and use of buildings are to be reduced by at least 25 per cent in carbon dioxide equivalents.

Energy efficiency and transitioning to fossil-free energy sources are happening across the whole of society and are supported in the property owners' plans. If we work proactively, we can avoid remaining in structures that might become expensive in the long term. Operational activities connected to energy efficiency are expected to result in financial savings at the same time as there might be increased awareness among employees as regards energy issues both in work situations and at home.

Expansion plans continue regarding electricity produced by our own solar cells.



CHALMERS

THIS MEANS

All buildings at Chalmers will be at the forefront in terms of climate impact

We apply our own research to construction and operation, and the life cycle perspective governs decisions concerning development of building stock. When buildings are renovated, newly constructed or rebuilt/converted, carbon emissions are to be reduced to the extent that the construction process and the operation are keeping pace, at least, with national and international climate targets.

Expansion plans continue regarding electricity produced by our own solar cells. A reduction in the climate impact of district heating is to enable Chalmersfastigheter to halve its climate footprint by 2030, and Akademiska Hus to achieve climate-neutral operation of its buildings by 2025.

Examples from the action plan: *Assessing the building stock to identify further potential for energy efficiency. Using existing research, tools and databases to decide whether conversion, extension or new construction should be undertaken, including design for re-use and dismantling.*

Operations will be optimised for, and directed towards, more energy-efficient behaviour

We will challenge ingrained habits and provide quick feedback on energy consumption so that all of us are involved and encouraged to make proactive choices. Energy data will be made available for education and research, and the campus constitutes a potential test bed.

Examples from the action plan: *Introduction of clear targets for energy efficiency and output control in operations. Production of statistics on an ongoing basis to enable energy monitoring that shows the electricity and energy use per building. Each department is to have its own relevant targets in line with the climate strategy, e.g. education and training in energy-saving measures at workplace level. Energy consumption and how energy is produced will be publicly visualised on a platform that has already been established.*

