

CHALMERS CAMPUS TEST ARENA

Campus – a test arena for sustainable solutions

Chalmers campuses are like their own cohesive districts consisting of offices, housing, restaurants, infrastructures and – best of all – thousands of technology-loving residents and visitors. This makes them the perfect environment for researching and testing new sustainable technology in order to prepare it for the market.

Since the early 2010's, multiple initiatives, such as *Energy on campus*, and *Five star campus* have existed to promote a wider use of campus as a test and demo arena. Within the initiatives, academia, industry, and society meet to develop new, better, and more sustainable solutions together. You can see some examples of projects related to energy, transportation, and buildings and construction on other stops in this tour.

Going into the future, Chalmers together with Johanneberg Science Park and Lindholmen Science Park will continue to use and promote campus as a test arena for sustainable innovations.

What solutions would you like to explore together with us?

Innovating the energy system

A fossil free, reliable, and fair energy system requires new ways of producing, storing, sharing, and using energy. New knowledge must be built, new technology developed, and new relationships and collaborations must be established.

At Chalmers' campus, we do innovation, tests, and demonstrations on all scales; from how to store energy at a molecular level, to how we can share it between buildings, cities or even countries. Transitioning to a sustainable society presents a number of complex challenges where actors from multiple sectors must collaborate to find ways forward. For this, campus can be a meeting point.

Here is a film that explains how the Chalmers University of Technology works with sustainable energy to power its campus.

Designing a safe, efficient, and sustainable mobility system

Transport is about how people and goods move from one place to another. Our current transportation system has challenges related to everything from increasing volumes to traffic safety and environmental pollution. Taking on these challenges require collaboration between various stakeholders, including academia, industry actors and the society as a whole.

Using our campus as a test arena, we research and develop areas such as autonomous vehicles, electromobility, and mobility services. Together we build the conditions for a sustainable society, both locally and globally.

Here is a film about the different ways the Chalmers University of Technology works with sustainable transportation.