



Demo site Factsheet



GOALS

Develop new ways to build and shape future housing, with a focus on energy consumption and emissions

Contribute to the energy transition



INHABITANTS

29 apartments for students, HSB members and visiting researchers

Ranging from 30 – 83 m²

10-year period: 2016 - 2026



COMMUNITY CONSUMPTION

83.5 MWh average per year

14.59% energy self-sufficient in 2023
(up from 13.25% in 2022)



COMMUNITY TYPE

Living Lab - smart residential modular building consisting of 29 apartments



ACTORS INVOLVED

Main research partners: Chalmers University of Technology, HSB (cooperative housing), and Johanneberg Science Park

Collaboration partners: 9 across design, energy, engineering, real estate, and tech



GENTE USE CASES

Reduction in energy cost

CO₂ emissions reduction

Increase community energy self-sufficiency



TECHNOLOGIES

Photovoltaic		18 kW _p
Electricity storage		7.2 kWh battery
Heat pumps: air-to-water		2 x 9 kW
Thermal storage		3 x 0.5 m ³ hot water multifunctional tanks
District heating		Provides ~80% of total heat load measured at 10Wh resolution
EV charging		2 x 32A with 3-phase outlets
Sensors		Approximately 2'000 throughout the building