

RIKSBYGGEN VIVA HOUSING ASSOCIATION

The Viva housing association (Riksbyggen Brf Viva) is the result of several years of research into how we can build and live as sustainably as possible. It is the first practical application of the insights from Riksbyggen Positive Footprint Housing, an interdisciplinary project looking into how to build environmentally, socially and economically sustainable neighbourhoods.

Facts:

- Winner of Environmental Building of the Year at the Swedish Green Building Awards 2019.
- The houses are designed to function as a plus energy area thanks to well-insulated frames and energy storage.
- The building's construction has been adapted to the site's topography.
- The housing association consists of 132 residences.
- 6 apartments have been offered to young adults for only SEK 95,000.
- The physical environment is designed to encourage spontaneous meetings and a sense of community.

Developer: Riksbyggen

Architect: Malmström & Edström

Partners: Johanneberg Science Park, Chalmers University of Technology, Gothenburg University, Göteborgs Energi, City of Gothenburg and RISE.

ENERGY STORED IN USED BUS BATTERIES

Here is a film that explains the process of taking used batteries from electric buses and repurposing them for storing solar energy.

By using several different energy sources, a flexible energy system has been created, which enables the production and storage of electricity and heat.

The solar panels on the roof produce approximately 149,000 kWh per year. This will cover the needs of the property and even provide a surplus.

Solar power also recharges the energy storage in 14 used bus batteries, which means a larger portion of electricity used within the property is self-produced. Combined, the batteries can store around 200 kWh, which can be used when needed.

Take a look at the energy storage [here!](#)

Partners: Volvo Buses, Göteborg Energi, Johanneberg Science Park

SUSTAINABLE CEMENT REDUCES CARBON DIOXIDE EMISSIONS

Here is a film that provides more information on the low carbon concrete used in the construction of the Riksbyggen Viva housing association.

The frame of the houses consists of a more sustainable concrete with a lower proportion of clinker in its formation. Instead a large part of the binder consists of fly ash, which is a residual product from the power industry. The reinforcements are made of recycled steel. As a result, the climate impact of the concrete has been reduced by 30 percent.

Partners: Cementa

INNOVATIVE SOLUTIONS FOR CAR FREE HOUSING

The Riksbyggen Viva housing association has been built without any private parking spaces. For residents to cope with everyday life without owning a car, new and innovative solutions are required. The complex therefore offers several mobility services that are booked via a single app. Among them there is a carpool with electric cars and a bicycle pool with both ordinary electric bicycles and electric box bikes. The building also includes a large and easily accessible bicycle garage with workshop.

Look inside the bicycle garage here!

Partners: OurGreenCar, GoRide, EC2B