



SINTEF HEADQUARTERS REFUR

Reference

Oslo, Norway

General:

Concept/Product:

Building Type: Research buildings/Laboratory

Builder Sintef SA

Completion: 2022

Description:

SINTEF is one of the largest independent research institutions in Europe and handles several thousand small and large projects every year. The organisation's location in Oslo was built back in the 1950s and could no longer live up to the motto "Technology for a Better Community" today. A comprehensive renovation was therefore necessary: This included, among other things, a new façade system – taking into account sustainable factors above all and ensuring the ongoing operation of the research organisation.

With the support of ENOVA, Lindner Scandinavia planned, manufactured and installed all façade-related components for the new building envelope. The aim of the project was to develop a façade system that, with a U_{cW} value of $0.4 \text{ W/m}^2\text{K}$, is better than the passive house standard. The solution consists of a bespoke unitized façade system using LS3000 Composite pultruded profiles and four layered insulated glass units in combination with solar panels in a customised steel system. Another requirement was that all staff had to work undisturbed in the building during the renovation work: Therefore, the Siporex exterior cladding was dismantled, but all windows were left as they were until the new façade was installed and weatherproofed. The result: A modern façade system with high insulation and airtightness values – together with the use of the existing structure, this led to an enormous CO₂ reduction compared to a completely new building. In addition, SINTEF benefited from the significantly shorter construction time and the possibility to use the building during renovation.

Completed Works:

Façade structure

LS 3000 composite and solar panels



