KLP – Fornebu

Case Study ESG

Extension of a local biotope on an asset's roof

PROJECT:
Fornebu S's Green Roof

COMPANY:
KLP Eiendom

LOCATION:
Norway

Challenge

With the construction of a new shopping center on a plot covered by grassland, KLP Eiendom wished to reduce the project's negative impact on local biodiversity.

Solution / Approach

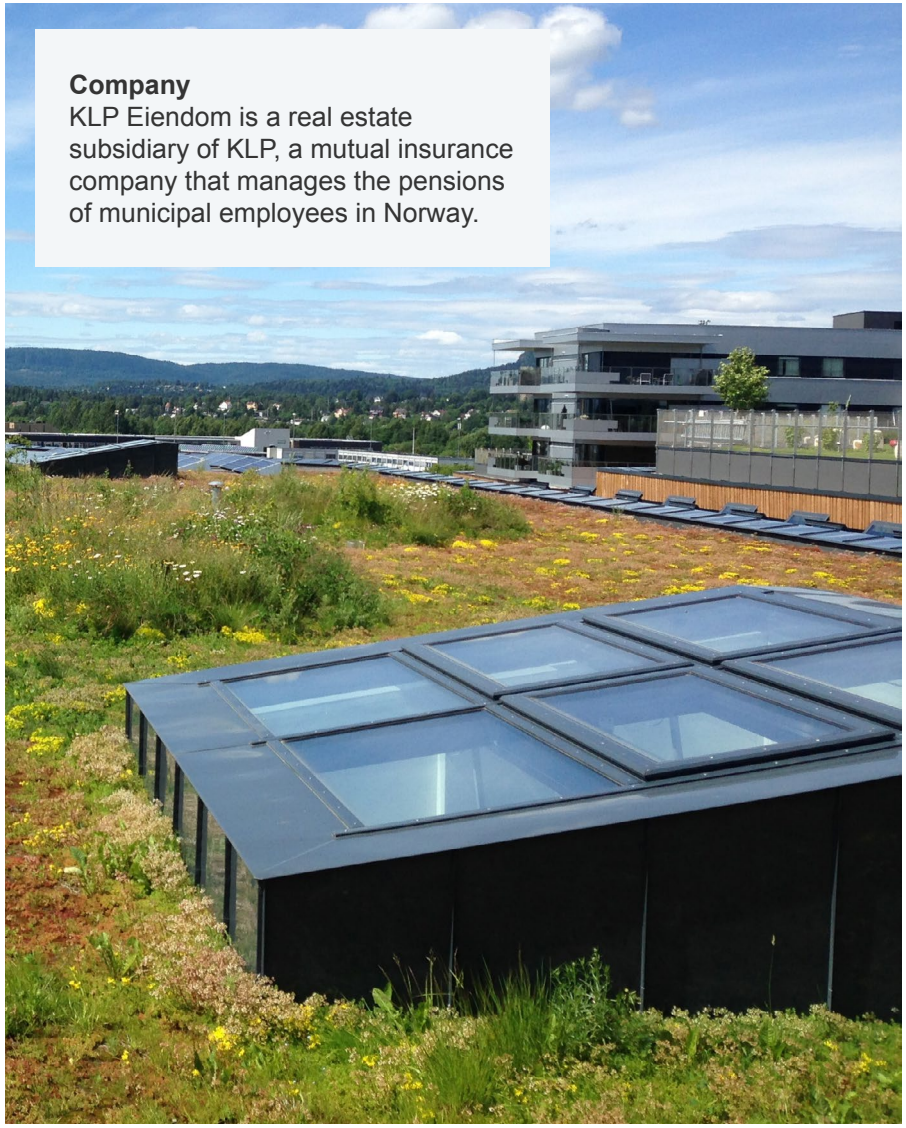
The shopping center Fornebu S – located on Fornebu, a small peninsula and residential area on the outskirts of Oslo, Norway – was opened in 2016, and received a BREEAM-NOR Outstanding certificate. On the roof there is a combination of solar panels and a green roof. The green roof at Fornebu S is however not "just a green roof; it is a recreation of the nationally rare nature type "dry calcareous grassland" (NOR: "kalktørreng") which is native to the Fornebu peninsula. The roof consists of 84 different native plant species, some of which were cultivated from seeds collected in the area in the summer of 2013.

A registration and care document helps operating technicians maintain the green roof, ensuring the protection of the local plants from invasive species. The green roof has its own beehives.

Results

The green roof provides a vital "green corridor," helping to protect the local biotope after the conversion of significant natural land into a built environment.It mitigates physical climate risks by absorbing water during torrential rain, reducing stress on storm drains.

The green roof helps keep the building cool during extreme heat. Furthermore, it enhances the visual appeal for residents in surrounding apartment buildings.



Company
KLP Eiendom is a real estate subsidiary of KLP, a mutual insurance company that manages the pensions of municipal employees in Norway.