

Solar experts impressed by the Stenbråtlia housing estate

In October, «SCOOP» invited a group of European solar experts to visit the Stenbråtlia housing estate in Oslo, where the Norwegian building association OBOS built 34 terraced houses equipped with roof-integrated polymer solar collectors by the company Aventa. The European consortium has worked for several years on the development of polymeric solar thermal collectors that combine functionality, cost efficiency and aesthetics.

Stenbråtlia is the first of several demonstration projects that highlights the successful implementation of «SCOOP's» novel developments. "The results of our studies have shown that plastic materials are very suitable for the construction of advanced solar collectors. We can now prove this with a practical application", states Michael Köhl, team leader at Fraunhofer ISE and project leader of «SCOOP».

Solar collector producer Aventa is one of the project partners and has delivered the solar collectors at Stenbråtlia. The systems are designed to meet 60% of the total energy demand for both domestic hot water preparation and space heating.

Space heating is provided by a water based floor-heating system. The collectors are easily mounted due to a modular building structure and a very low weight – a clear advantage of polymer constructions. Carpenters on site installed the solar applications without any problems as they are used to work accurately on big fields like roofs and façades. The houses at Stenbråtlia are built to meet passive house standards and have several qualities that will secure high comfort and low energy consumption. They demonstrate that comfortable indoor climate, renewable energy and aesthetic design can be successfully brought together.



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«SCOOP» project meeting in Oslo, Norway. Visit of demonstration project Stenbråtlia and of the thermosiphon teststand at the University of Oslo (Source: H. Kicker, JKU Linz).