

30.01.2020

BUILDINGS IN UPPSALA GET WHITE SOLAR FAÇADES

In Uppsala, Sweden, a real estate company has equipped several students' residences with solar energy systems. Three façades were activated with white solar panels. The modules integrate aesthetically perfectly into the appearance without the solar technology being visible.

Uppsala is not known as a sunny place. In high summer the sun shines in central Sweden for an average of ten hours, usually less. Nevertheless, the real estate company Heimstaden has decided to equip some of its student residences in the district of Flogsta with solar systems.

But they were not meant to be just any systems. The plan was to install as many modules as possible in such a way that they would supply enough electricity to operate the systems economically. This is possible even with the low solar radiation in the district in the west of the Swedish university town.

CUSTOM-MADE MODULES

To implement exactly this plan, the flat roofs of the twelve student dormitories were equipped with modules. In addition, modules were attached to the unshaded and south-facing façades of three buildings. However, an acceptable solution had to be found. Because the modules had to blend in aesthetically as perfectly as possible with the bright façade without the solar technology itself being visible. The requirement could only be met with white solar modules.

This is not easy to implement, but is now possible. This is because the Estonian module manufacturer Naps has applied the solar film of the Swiss manufacturer Solaxess to the specially manufactured modules. This currently still consists of a special film that reflects only the complete visible part of the light spectrum. As a result, the human eye perceives the modules as white. The invisible light spectrum, on the other hand, is transmitted by the film to the solar cells below. This spectrum can be used to produce electricity.

How this works exactly, you can read in the detailed description of the project which you can find in the [Solar Age database](#). (su)

You will find there too:

[Exciting products for building integration and solar architecture.](#)

[Current videos from the Smarter E Europe 2019 in Munich.](#)

