

Office building in Miltenberg

Aesthetic integration

The BIPV façade has been adapted individually to the existing building. The black frameless modules create a uniform surface. They were equipped with an invisible backside glued frame. The result is an elegant power-generating façade that is not recognizable as such at first glance.

Energy integration

The BIPV modules are estimated to produce around 25 MWh per year.

Technology integration

399 glass-glass modules (eFORM color) in 15 different sizes and geometries were optimally integrated by SUNOVATION into the existing building structure. The substructure for this back-ventilated curtain facade has been anchored in the concrete walls with retaining brackets and combined with a structural glazing design. The facade elements have been attached to the retaining profiles with 2-component-silicone and were individually mounted on 4 points in so-called bolt slides. The use of integrated diodes optimizes the yield of this BIPV facade.

Decision making

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Lesson learnt

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PROJECT DATA

Project type	Retrofit
Building function	Office
Integration system	Opaque cold façade
Location	Miltenberg, Germany

BIPV SYSTEM DATA

Module type	Custom made modules
Solar technology	Crystalline Silicon
Nominal power [kWp]	41
System size [m²]	370
Module size [mm]	15 different

Orientation	-
Tilt [°]	90

BIPV SYSTEM COSTS

Total cost [€]	-
€/m²	-
€/kWp	-

PRODUCER DATA

Producer	Sunovation GmbH
Address	Glanzstoffstraße 21, Elsenfeld, Germany
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1. BIPV façade of the office building © Sunovation
2. BIPV façade on the refurbished building © Sunovation