Edificio per uffici a Miltenberg

Introduction

The refurbished office building has received a modern BIPV façade.

(Sunovation)

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 façade 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.

PROJECT DATA

Project type	renovation
Building use	office
Building address	Miltenberg, Germania

BIPV systems

BIPV SYSTEM DATA

Architectural system	facciata ventilata
Active material	silicio cristallino
Module transparency	opaque
Module technology	glass-glass, hidden PV, customized modules
System power [kWp]	41
System area [m²]	370
Modules tilt [°]	90
Annual FV production [kWh]	25000

BIPV SYSTEM COSTS

Stakeholders

BIPV components producer

Sunovation GmbH
Glanzstoffstraße 21, Elsenfeld, Germania
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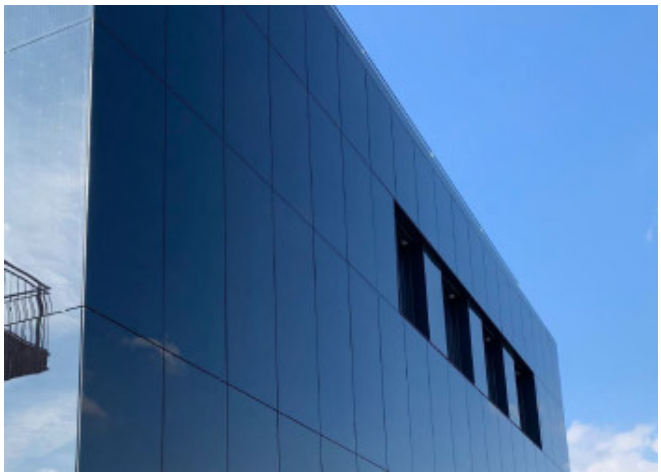
https://sunovation.de/en/



Case study author: