



**Office building in 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

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<b>Project type</b>	renovation
<b>Building use</b>	office
<b>Building address</b>	Miltenberg, Germany

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### BIPV systems

#### BIPV SYSTEM DATA

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<b>Architectural system</b>	rainscreen
<b>Active material</b>	crystalline silicon
<b>Module transparency</b>	opaque
<b>Module technology</b>	glass-glass, hidden PV, customized modules
<b>System power [kWp]</b>	41
<b>System area [m<sup>2</sup>]</b>	370
<b>Modules tilt [°]</b>	90
<b>Annual FV production [kWh]</b>	25000

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#### BIPV SYSTEM COSTS

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## Stakeholders

### **BIPV components producer**

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