

**Gas station in Geilenkirchen**



## Aesthetic integration

Due to the transparent appearance of the solar modules, open, light-flooded, yet protected areas have been created. The PV cells are completely visible as an instrument to communicate environmental consciousness.

## Energy integration

The BIPV modules are estimated to produce around 45 MWh per year.

## Technology integration

The 258 BIPV modules (eFORM clear) were project-specifically manufactured by SUNOVATION, in 20 different sizes. They are glass-glass modules, made of high efficiency PV cells and laminated safety glass.

## Decision making

The initiator of this project, an ecologically committed operator of a major gas station chain, aimed to transfer the subject of environmental consciousness into the market for fossil energy. The assignment here was to design an exclusive, design-oriented roofing solution with integrated photovoltaic, aimed to incorporate and communicate into the world of gas stations the ideas „renewable energy“ and „climate protection“.

## Lesson learnt

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### PROJECT DATA

<b>Project type</b>	New construction
<b>Building function</b>	Other function
<b>Integration system</b>	Semi-transparent tilted roof
<b>Location</b>	Sittarder Str. 112, Geilenkirchen, Germany

### BIPV SYSTEM DATA

<b>Module type</b>	Custom made modules
<b>Solar technology</b>	Crystalline Silicon
<b>Nominal power [kWp]</b>	62
<b>System size [m<sup>2</sup>]</b>	700
<b>Module size [mm]</b>	20 different

<b>Orientation</b>	North-East, South-West
<b>Tilt [°]</b>	-

#### **BIPV SYSTEM COSTS**

<b>Total cost [€]</b>	-
<b>€/m<sup>2</sup></b>	-
<b>€/kWp</b>	-

#### **PRODUCER DATA**

<b>Producer</b>	Sunovation GmbH
<b>Address</b>	Glanzstoffstraße 21, Elsenfeld, Germany
<b>Contact</b>	info@sunovation.de +49(0) 6022 / 26573-0
<b>Web</b>	<a href="https://sunovation.de/en/">https://sunovation.de/en/</a>



1. Semi-transparent BIPV roof system © Sunovation
2. Detail of the BIPV roof systems © Sunovation