

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

Project type	New construction
Building function	Other function
Integration system	Semi-transparent tilted roof
Location	Sittarder Str. 112, Geilenkirchen, Deutschland

BIPV SYSTEM DATA

Module type	Custom made modules
Solar technology	Kristallines Silizium
Nominal power [kWp]	62
System size [m²]	700
Module size [mm]	20 verschiedene

Orientation	Norden-Osten, Süden-Westen
Tilt [°]	-

BIPV SYSTEM COSTS

Total cost [€]	-
€/m²	-
€/kWp	-

PRODUCER DATA

Producer	Sunovation GmbH
Address	Glanzstoffstraße 21, Elsenfeld, Deutschland
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1. Semi-transparent BIPV roof system © Sunovation
2. Detail of the BIPV roof systems © Sunovation