



**Gas station in Geilenkirchen**

## Introduzione

Semi-transparent BIPV modules have been installed as an integrated roof on different stations of a modern gas station in Geilenkirchen.

([Sunovation](#))

## Integrazione estetica

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.

## Integrazione energetica

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

## Integrazione tecnologica

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.

## Processo decisionale

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".

## DATI EDIFICIO

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<b>Tipologia progetto</b>	nuova costruzione
<b>Destinazione d'uso</b>	infrastruttura
<b>Indirizzo edificio</b>	Sittarder Str. 112, Geilenkirchen, Germany

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## Sistemi BIPV

### DATI SISTEMA BIPV

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<b>Sistema architettonico</b>	canopy
<b>Anno integrazione BIPV</b>	2012
<b>Active material</b>	crystalline silicon
<b>Trasparenza modulo</b>	semi-trasparente
<b>Tecnologia modulo</b>	vetro-vetro, FV riconoscibile, modulo customizzato
<b>Potenza sistema [kWp]</b>	62
<b>Area sistema [m<sup>2</sup>]</b>	700
<b>Orientamento moduli</b>	North-East, South-West
<b>Produzione FV annuale [kWh]</b>	45000

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### COSTI SISTEMA BIPV

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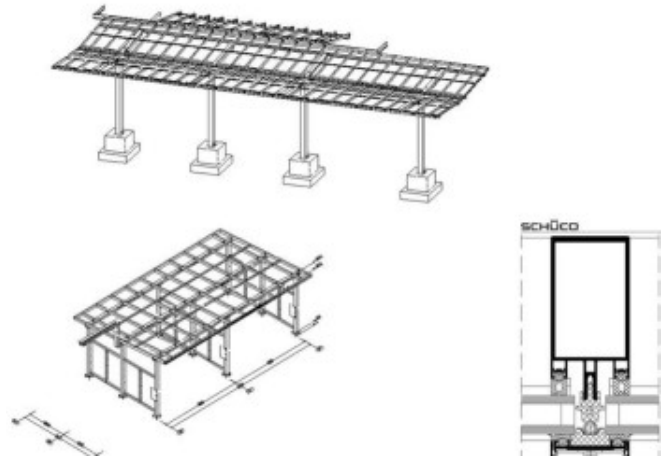
## Stakeholders

### **Produttore componenti BIPV**

Sunovation GmbH  
Glanzstoffstraße 21, Elsenfeld, Germany  
info@sunovation.de +49(0) 6022 / 26573-0  
<https://sunovation.de/en/>

### **Collaboratori**

Rudolstädter Systembau



Autore caso studio: