



## **Stazione di servizio a 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, Germania |

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## Sistemi BIPV

### DATI SISTEMA BIPV

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|-------------------------------------|--|
| <b>Sistema architettonico</b>       | pensilina  |
| <b>Anno integrazione BIPV</b>       | 2012   |
| <b>Active material</b>              | silicio cristallino                                |
| <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>          | nord-est, sud-ovest                                |
| <b>Produzione FV annuale [kWh]</b>  | 45000  |

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### COSTI SISTEMA BIPV

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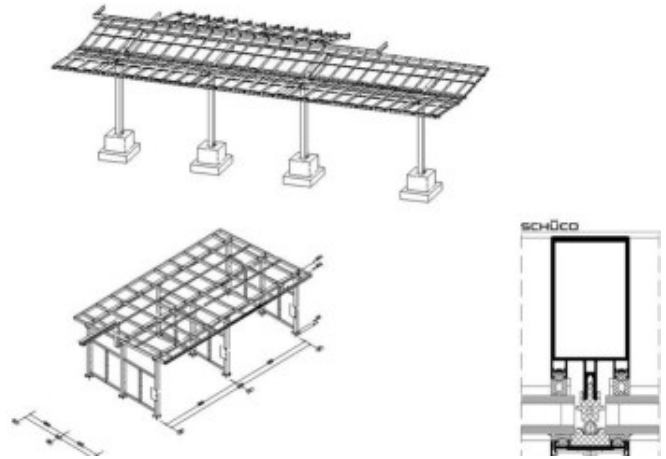
## Stakeholders

### **Produttore componenti BIPV**

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

### **Collaboratori**

Rudolstädter Systembau



Autore caso studio: