Tankstelle in Geilenkirchen

Introduzione

Semi-trasparent 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

Tipologia progetto	nuova costruzione
Destinazione d'uso	infrastruttura
Indirizzo edificio	Sittarder Str. 112, Geilenkirchen, Deutschland

Sistemi BIPV

DATI SISTEMA BIPV

Sistema architettonico	Vordach
Anno integrazione BIPV	2012
Active material	kristallines Silizium
Trasparenza modulo	semi-trasparente
Tecnologia modulo	vetro-vetro, FV riconoscibile, modulo customizzato
Potenza sistema [kWp]	62
Area sistema [m²]	700
Orientamento moduli	Norden-Osten, Süden-Westen
Produzione FV annuale [kWh]	45000

COSTI SISTEMA BIPV

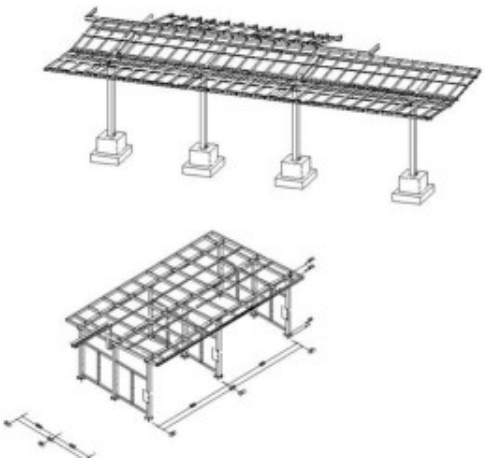
Stakeholders

Produttore componenti BIPV

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

Collaboratori

Rudolstädter Systembau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Autore caso studio: