Weather House

Introduction

In 2015, the Weather House, WetterOnline's headquarter, was newly erected at the river port in Bonn, directly behind the Bonn docks and overlooking the Siegaue Nature Reserve. The building was planned with special attention to the symbiosis of the nearby river Rhine's ecosystem and the structure's energy supply. One façade was equipped with BIPV modules provided by SUNOVATION.

(Sunovation)

Aesthetic integration

The BIPV modules offer homogeneous and straight dark surfaces. Coloured through double screen printing technique, they present an anthracite appearance. The adopted frameless curtain was system makes the mounting system invisible.

Energy integration

The BIPV modules are estimated to produce around 8.6 MWh per year.

Technology integration

Initially planned with thin-film PV technology, the façade was then realized with monocrystalline solar cells. The 330 integrated (eFORM color) modules are glass-glass panels of 20 different sizes, supported by a backside glued frame.

PROJECT DATA

Project type	new construction
Building use	office
Building address	Karl-Legien-Straße 194a, Bonn, Germany

BIPV systems

BIPV SYSTEM DATA

Architectural system	rainscreen
Integration year	2015
Active material	monocrystalline silicon
Module transparency	opaque
Module technology	glass-glass, hidden PV, customized modules
System power [kWp]	16
System area [m²]	210
Modules orientation	South-West
Modules tilt [°]	90
Annual FV production [kWh]	8600

BIPV SYSTEM COSTS

Stakeholders

Main building designer

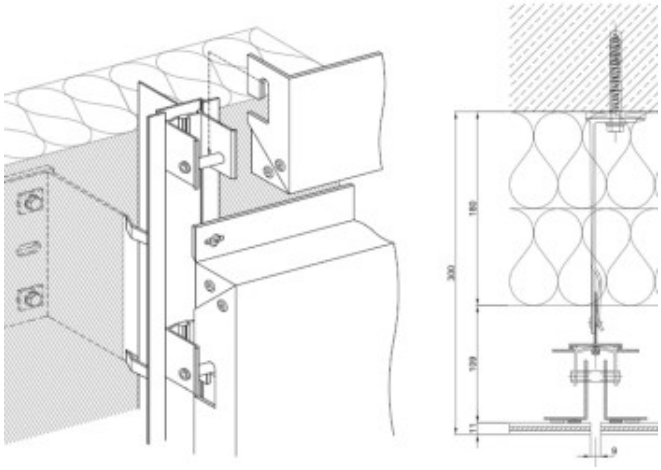
Pilhatsch. Löwnau Partner Architekten

BIPV components producer

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

Collaborators

prüTec - Planungsbüro für Energie - & Haustechnik GmbH



Case study author: