

Sustainability Pavilion, Expo 2020

Aesthetic integration

The BIPV modules completely cover the circular roof thanks to the different 330 special trapezoidal geometries designed for the specific application.

Energy integration

The integrated power generating surface is estimated to produce around 4 GWh per year. This energy production was fundamental to achieve the desired LEED certification. The glass is designed for highest power generation.

Technology integration

The 5,080 integrated glass-glass BIPV modules (eFORM clear) were individually designed by SUNOVATIOON's. The structure is walkable for cleaning and maintenance, and characterized by a long-term stability of the glass compound.

Decision making

-

Lesson learnt

-

PROJECT DATA

Project type	New construction
Building function	Other function
Integration system	Semi-transparent tilted roof
Location	Dubai, United Arab Emirates

BIPV SYSTEM DATA

Module type	Custom made modules
Solar technology	Crystalline Silicon
Nominal power [kWp]	2,100
System size [m²]	12,600
Module size [mm]	Several
Orientation	Several

Tilt [°]	Several
-----------------	---------

BIPV SYSTEM COSTS

Total cost [€]	-
€/m²	-
€/kWp	-

PRODUCER DATA

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

1. BIPV canopy and e-trees, Expo 2020 © SUNOVATION
2. BIPV canopy © SUNOVATION