

# **Sustainability Pavilion, Expo 2020**



## Integrazione estetica

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

## Integrazione energetica

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.

## Integrazione tecnologica

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.

## Processo decisionale

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## Lesson learnt

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### DATI EDIFICIO

<b>Tipologia progetto</b>	Nuova costruzione
<b>Destinazione d'uso</b>	Altra funzione
<b>Sistema di integrazione</b>	Tetto inclinato semi-trasparente
<b>Indirizzo</b>	Dubai, Emirati Arabi Uniti

### DATI SISTEMA BIPV

<b>Tipologia moduli</b>	Moduli custom
<b>Tecnologia FV</b>	Silicio cristallino
<b>Potenza nominale (STC) [kWp]</b>	2100
<b>Dimensione sistema [m<sup>2</sup>]</b>	12 600
<b>Dimensioni moduli [mm]</b>	varie
<b>Orientamento</b>	vari

<b>Inclinazione [°]</b>	varie
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#### **COSTI SISTEMA BIPV**

<b>Costo totale [€]</b>	-
<b>€/m<sup>2</sup></b>	-
<b>€/kWp</b>	-

#### **DATI PRODUTTORE**

<b>Produttore</b>	Sunovation GmbH
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1. BIPV canopy and e-trees, Expo 2020 © SUNOVATION
2. BIPV canopy © SUNOVATION