

**Sustainability Pavilion Expo 2020** 

#### Introduction

The PV is integrated in a series of satellite dish-shaped structures located at Exibition City, Dubai. The centerpiece for Expo's green theme, the pavilion will exceed LEED Platinum standards.

(Sunovation)

#### **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 (<u>eFORM clear</u>) were individually designed by SUNOVATION. The structure is walkable for cleaning and maintenance and characterized by a long-term stability of the glass compound.

## **PROJECT DATA**

Project type	new construction
Building use	urban furniture
Building address	Dubai, United Arab Emirates

# **BIPV** systems

#### **BIPV SYSTEM DATA**

Architectural system	canopy
Integration year	2020
Active material	crystalline silicon
Module transparency	opaque
Module technology	glass-glass, recognizable PV, customized modules
System power [kWp]	2,100
System area [m²]	12,600
Annual FV production [kWh]	400000

#### **BIPV SYSTEM COSTS**

### **Stakeholders**

# Main building designer

**Grimshaw Architects** 

### **BIPV** components producer

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