



## **Sustainability Pavilion Expo 2020**

## Introduction

The PV is integrated in a series of satellite dish-shaped structures located at Exhibition 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 ([eFORM\\_clear](#)) 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

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<b>Project type</b>	new construction
<b>Building use</b>	urban furniture
<b>Building address</b>	Dubai, Emirati arabi uniti

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## BIPV systems

### BIPV SYSTEM DATA

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<b>Architectural system</b>	pensilina
<b>Integration year</b>	2020
<b>Active material</b>	silicio cristallino
<b>Module transparency</b>	opaque
<b>Module technology</b>	glass-glass, recognizable PV, customized modules
<b>System power [kWp]</b>	2100
<b>System area [m<sup>2</sup>]</b>	12600
<b>Annual FV production [kWh]</b>	4000000

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### BIPV SYSTEM COSTS

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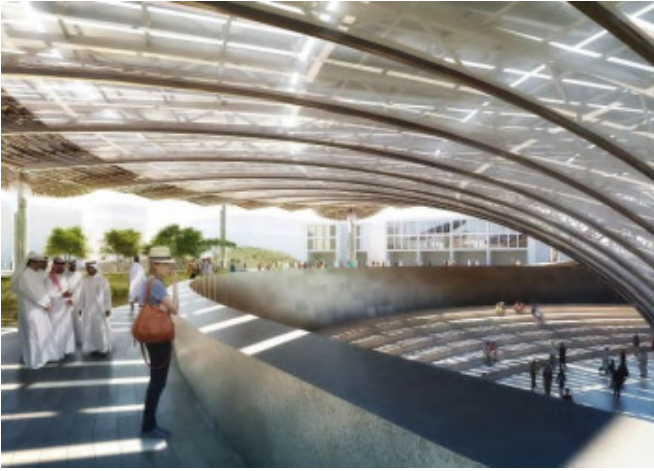
## Stakeholders

### **Main building designer**

Grimshaw Architects

### **BIPV components producer**

Sunovation GmbH  
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