



# « El Centre Del Mon »

Perpignan (F)

## Building Details

CONTACTS	Name	Website (or e-mail)
<b>Owner</b>	El Centre del Món; Metrovacesa Méditerranée	<a href="http://www.centredelmon.com">www.centredelmon.com</a> <a href="http://www.metrovacesa.es">www.metrovacesa.es</a>
<b>Architect</b>	L35 Architects	<a href="http://www.l35.com">www.l35.com</a>
<b>Energy Consultant</b>	ISSOL	<a href="http://www.issol.eu">www.issol.eu</a>
<b>PV Installer</b>	ISSOL	<a href="http://www.issol.eu">www.issol.eu</a>

## BUILDING

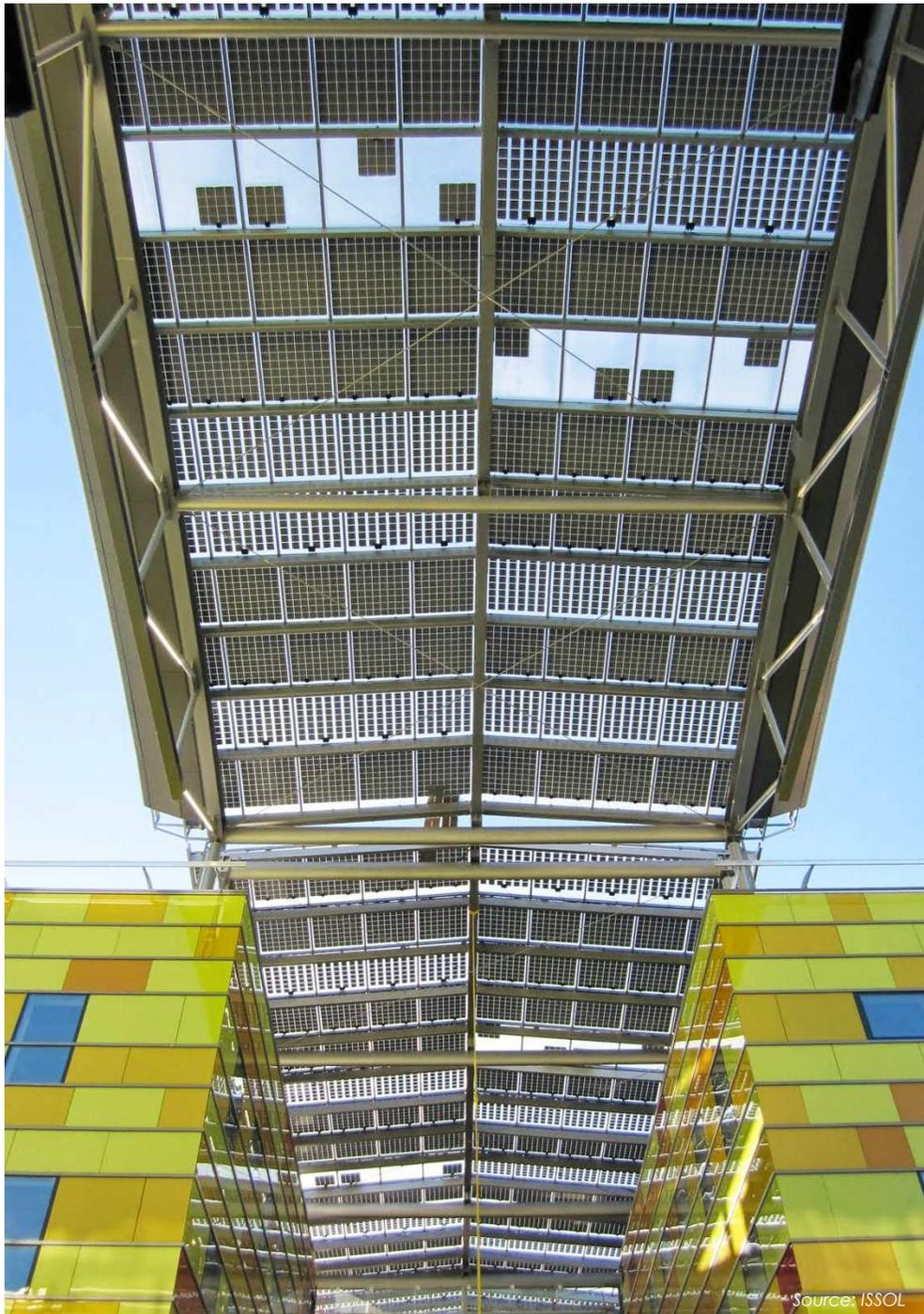
<b>Completion year</b>	2010 Building	2010 Plant		
<b>Category</b>	New	Renovation	Enlargement	Other
<b>Typology</b>	Residential	Administration	Industrial	Sport
	Agricultural	Urban	Historical	Other

**Building Energy Performance** kWh/m<sup>2</sup>y

## Description

"El Centre Del Mon" is an architectural multi-purpose complex, which includes a shopping centre, an hotel and offices, and it is located in the new area of high-speed train station of Perpignan, France. The project is structured on a linear axis, characterized by parallel volumes connected by a glazed pergola shaped like a wave, that run along the entire 200 m length and acts as a new urban symbol. The buildings stands out for the different color of cladding panels. The original wave system, installed on a steel structure at 25 m height, is 14 m wide and it is composed by a puzzle of semi-transparent PV cells and modules, with 85 different forms. It serves not only to generate electrical power, but it also works as a brese-soleil.

## Aknowledgments



## BiPV Details

### LOCATION OF PLANT

<b>Roof</b>	Flat roof	Sloped	Curved	
<b>Façade</b>	Cladding	Balcony	Greenhouse	Curved
<b>Glass</b>	Façade	Roof	Solar shading	Canopy
<b>Orientation</b>	South	West	East	North
<b>BiPV System</b>	Fixed shading device			

### ARCHITECTURAL EVALUATION

<b>Color</b>	Black
<b>Transparency</b>	Semi-transparent (different % of transparence)
<b>Frame</b>	Steel structure

### COSTUMIZATION LANGUAGE AT COMPONENT SCALE

PV CELL	MODULE LAYERING	MODULE FEATURES	DUMMIES
<b>DESCRIPTION</b>	custom made solar modules: different numbers of PV cells in modules creating different percentual of transparence.		

### SPECIFICATION

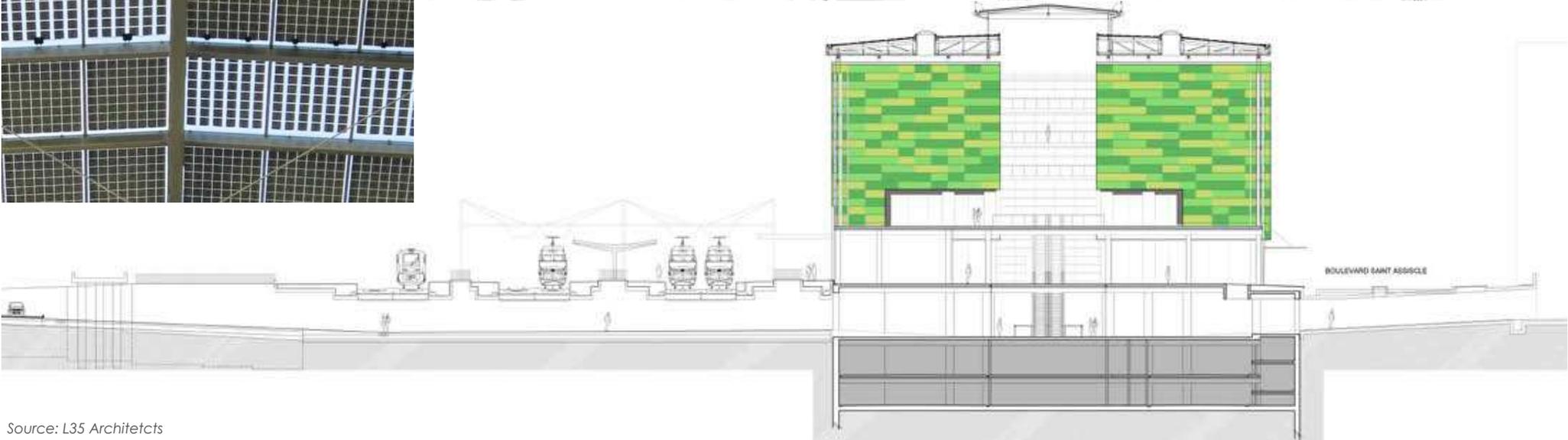
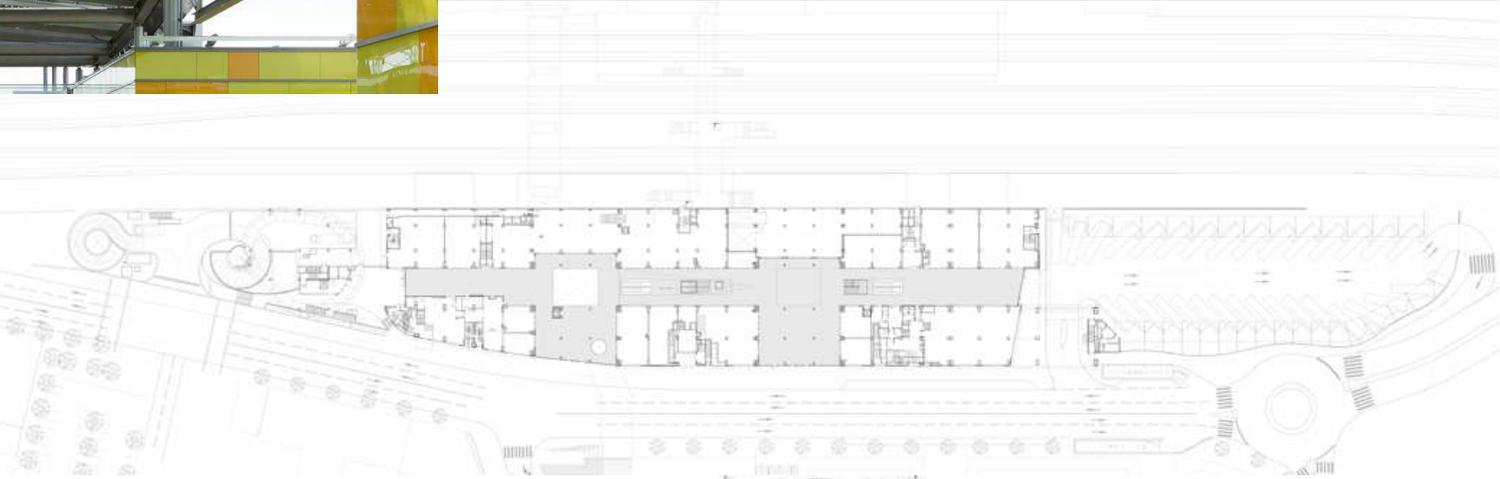
<b>Photovoltaic</b>	Monocrystalline	Multicrystalline	Thin Film
<b>PV Module</b>	<b>Cells</b>	-	
	<b>Module</b>	CENIT - ISSOL (aminated safety glass PV modules )	
<b>Power</b>	<b>kWp</b>	232	
<b>Size</b>	<b>m<sup>2</sup></b>	2800	
<b>Energy production</b>	<b>kWh/year</b>	-	
<b>Cost</b>	<b>€/m<sup>2</sup></b>	-	

Source: ISSOL

# BiPV Details

## BUILDING SYSTEM INFORMATION

Transparency	OPAQUE	TRASPARENT	G Value
Constructive system	MASSIVE BUILDING		LIGHTWEIGHT
Ventilation system	NOT VENTILATED	MICROVENTILATED	NATURAL VENTILATED
U value (W/m <sup>2</sup> K)			



Source: L35 Architetcts