



SUPSI

Swiss BiPV Competence Centre



SOURCE: Toponi Far System

World Join Centre

Milano (I)

Building Details

CONTACTS

	Name	Website (or e-mail)
Owner	Relive Compny S.p.a.	-
Architect	Arch. Marco Cerri and Urbam S.p.a.	urbam@urbam.it
Energy Consultant	FAR SYSTEMS S.r.l.	www.farsystems.it
PV Installer	FAR SYSTEMS S.r.l.	www.farsystems.it

BUILDING

Completion year	2008-2010	Building	2008-2010	PV Plant
Category	New	Renovation	Enlargement	Other
Typology	Residential	Administration	Industrial	Sport
	Agricultural	Urban	Historical	Other

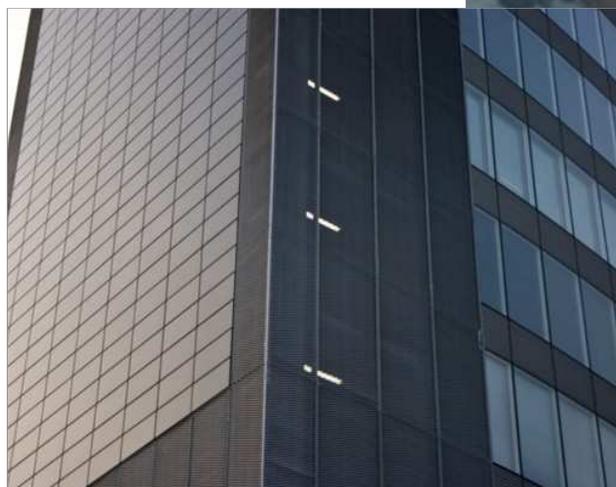
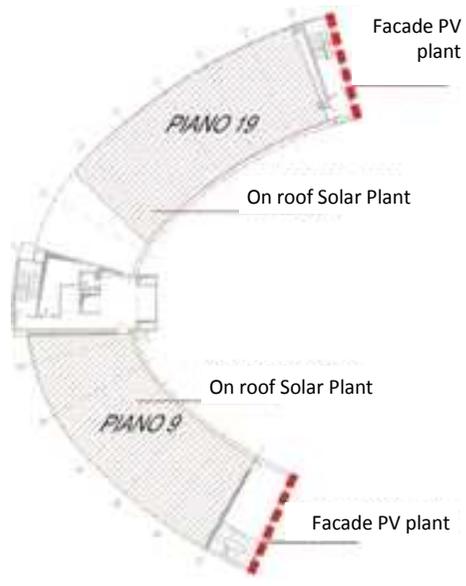
Building Energy Performance kWh/m²y -

Description

The World Join Center is located in the Portello area in Milan. One of the main objectives of this project was to ensure the ecological sustainability of the building, including its architectural features, load bearing structures and automation systems. The project combines functional efficiency and environmental compatibility by using alternative energy solutions. On the roof Monocrystalline silicon PV modules were installed and in short sides of the building CIS PV panels were integrated. The PV plant was carefully conceived to maximise the energy production during the winter, especially from October to April. Design strategy has dramatically reduced heating demand according to a building energy performance labeled as a B class.

Acknowledgments -

BiPV Details



SOURCE: Tosoni Far System

LOCATION OF PLANT

Roof	Flat roof	Sloped	Curved
Façade	Cladding	Balcony	Greenhouse Curved
Glass	Façade	Roof	Solar shading Canopy
Orientation	South	West	East North
BiPV System	Façade opaque cladding (Cold façade); On-Roof Overlapped system (BAPV)		

ARCHITECTURAL EVALUATION

Color	Black
Transparency	20%
Frame	Aluminium frame

COSTUMIZATION LANGUAGE AT COMPONENT SCALE

PV CELL	MODULE LAYERING	MODULE FEATURES	DUMMIES
DESCRIPTION			

SPECIFICATION

Photovoltaic	Monocrystalline	Multicrystalline	Thin Film
PV Module	Cells	CIS (Copper Indium Selenium); s-Si;	
	Module	1071 Würth Solar CIS panels 75W(Façades); 174 Monoc. silicon panels 220W(Roof)	
Power	kWp	57 (East Façads); 23(West Façade); 40 (Roof)	
Size	m²	1035	
Energy production	kWh/year	99400	
Cost	€/m²	-	