



## SUPSI

Swiss BiPV Competence Centre



SOURCE: Tosoni Far System

# Largo Europa Building

Padova (I)

## Building Details

### CONTACTS

	Name	Website (or e-mail)
<b>Owner</b>	Euro Building S.r.l.	<a href="http://www.eurobuilding.it">www.eurobuilding.it</a>
<b>Architect</b>	Arch. Gianmaria Scalcon	<a href="http://www.scalconmiello.net">www.scalconmiello.net</a>
<b>Energy Consultant</b>	FAR SYSTEMS S.r.l.	<a href="http://www.farsystems.it">www.farsystems.it</a>
<b>PV Installer</b>	FAR SYSTEMS S.r.l.	<a href="http://www.farsystems.it">www.farsystems.it</a>

### BUILDING

<b>Completion year</b>	1950 Building	2010 PV Plant		
<b>Category</b>	New	Renovation	Enlargement	Other
<b>Typology</b>	Residential	Administration	Industrial	Sport
	Agricultural	Urban	Historical	Other
<b>Building Energy Performance</b>	kWh/m <sup>2</sup> y		-	

### Description

This intervention concerns an articulated renovation of a 50 's residential building in the hearth of Padova, using high technology, reducing energy consumption and also introducing photovoltaic in the center of the city. The façade refurbishment is characterized by two different building skin systems. The first one concerns the flat part of the external wall whilst the second is based by a convex structure made with tubular metallic frames. In the south-western elevation a solar façade with Led spotlight is installed. The 132 CIS modules, placed in the opaque ventilated façade, produce the energy necessary for the common parts of condominium (including 2 lift).

### Aknowledgments

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## 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>	Façade opaque cladding			

### ARCHITECTURAL EVALUATION

<b>Color</b>	Black
<b>Transparency</b>	opaque
<b>Frame</b>	Frameless

### COSTUMIZATION LANGUAGE AT COMPONENT SCALE

PV CELL	MODULE LAYERING	MODULE FEATURES	DUMMIES
<b>DESCRIPTION</b> Solar panels with wood inserts and Led light points.			

### SPECIFICATION

<b>Photovoltaic</b>	Monocrystalline	Multicrystalline	Thin Film
<b>PV Module</b>	<b>Cells</b>	CIS (Copper Indium Selenium)	
	<b>Module</b>	132 CIS modules	
<b>Power</b>	<b>kWp</b>	10	
<b>Size</b>	<b>m<sup>2</sup></b>	-	
<b>Energy production</b>	<b>kWh/year</b>	-	
<b>Cost</b>	<b>€/m<sup>2</sup></b>	-	