



SUPSI

Swiss BiPV Competence Centre



SOURCE: Tosoni Far System

Verona Forum

Verona (I)

Building Details

CONTACTS	Name	Website (or e-mail)		
Owner	CIS Compagnia Investimenti e Sviluppo	www.cis-vr.it		
Architect	Mario Bellini Associati Srl	www.bellini.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

Verona Forum is a part of a building development in Verona's new business district. The complex consists of two main buildings. The first one, for hospitality use, has a warm facade with a particular external expanded metal shell, randomly cut with cloud's shape. 90 thin-film panels are integrated in the Eastern façade of the hotel. The second building, for administrative use, has a double skin façade with a mechanical ventilation system. The structural glasses of the office integrate high-efficiency monocrystalline PV cells in the western façade. Both buildings stand out for the innovative building automation system (air conditioning, water distribution, gas and energy, security systems) and for the management and control of indoor comfort aimed to achieve a substantial energy saving. The particular shape of the buildings, with sloped roof facing south, allowed the installation of solar collectors producing hot water used into the two indoor pools.

Acknowledgments



PV plant of office building's Western facade

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BiPV Details

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	Double skin façade (Office building); Warm façade (hotel building)			

ARCHITECTURAL EVALUATION

Color	Black
Transparency	20%
Frame	frameless

COSTUMIZATION LANGUAGE AT COMPONENT SCALE

PV CELL	MODULE LAYERING	MODULE FEATURES	DUMMIES
DESCRIPTION Dimension of modules			

SPECIFICATION

Photovoltaic	Monocrystalline	Multicrystalline	Thin Film
PV Module	Cells	m-SI; CIS (Copper Indium Selenium);	
	Module	n° 84 Structural PV glass with SunPower cells m-SI (West Façade of office building); 90 PV CIS modules (East façade of hotel)	
Power	kWp	20	
Size	m²	200	
Energy production	kWh/year	20000	
Cost	€/m²	-	