University of Applied Sciences and Arts of Southern Switzerland
Department of Environment Constructions and Design
Institute of Applied Sustainability to the Built Environment

SUPSI

Swiss BiPV Competence Centre

Warm facade

PV Pavillion
Potsdam (D)


Ortner ®

Building Details

CONTACTS	Name	Website (or e-mail)
Owner	University of Applied Sciences Potsdam	www.fh-potsdam.de
Architect	Ortner & Ortner Baukunst	www.ortner.au
Energy Consultant		
PV Installer	Odersun AG	

BUILDING

Completion year	2011 Building		2011 PV Plant	
Category	New	Renovation	Enlargement	Other
Typology	Residential	Administration	Industrial	Sport
	Agricultural	Urban	Historical	Other

Description

This pavilion is a prototype for the possible use of photovoltaic technology in space-shaping architectural elements. Wall panels measuring 4 metres high and 1 metre wide are used to form all the facades of the 35-metre-long building. The panels are held in a structural steel frame. On the outside the photovoltaic elements are positioned behind a continuous pane of glass. On the inner face the copper bands are visible behind the glass, forming a finely articulated wall cladding (Ortner ®).

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

ARCHITECTURAL EVALUATION

Color	Black (copper internally)
Transparency	Opaque
Frame	Steel
Aknowledgments	-

SPECIFICATION

Photovoltaic	Monocrystalline	Multicrystalline	Thin Film	
PV Module	**Cells**	CIS, Proprietary CISCuT (Thin Film) Technology by Odersun		
	Module	Customized Photovoltaics		
Power	**kWp**	-		
Size	**m²**	4 (1 module)		
Energy production	**kWh/year**	-		