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

Cold facade

Genböck Bungalow Best Ager

Haid (A)

Building Details

CONTACTS	Name	Website (or e-mail)
Owner	Elektrotechnik Wagner	www.genboeck.at
Architect	-	-
Energy Consultant	Ertex Solar GmbH	www.ertex-solar.at
PV Installer	-	-

BUILDING

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

Building Energy Performance **kWh/m² y**

Description

This is a luxury bungalow built in the home park of Genböck Haus in Haid, Austria. It is designed as an example of a single family house with new comfort and security standards, without architectural barriers. The building is built with natural materials and with large glazed surfaces. The external building envelope is highly thermal insulated. A perfectly integrated PV plant on south façade ensures maximum energy efficiency and minimum operating costs: the PV system is made up of 5 large panels installed with a slight slope, creating a homogeneous surface. The mounting system is simple, takes only a few vertical currents in which the panels are screwed.

Aknowledgments -

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	Facade opaque cladding;			

ARCHITECTURAL EVALUATION

Color	Blue
Transparency	Opaque
Frame	Aluminium frame

COSTUMIZATION LANGUAGE AT COMPONENT SCALE

PV CELL	**MODULE LAYERING**	**MODULE FEATURES**	**DUMMIES**

DESCRIPTION Large dimension of modules (2894 x 1198 mm)

SPECIFICATION

Photovoltaic	Monocrystalline	**Multicrystalline**	Thin Film	
PV Module	**Cells**	-		
	Module	5 INTEVO 2/2 Ertex Solar(2894x1198mm)		
Power	**kWp**	2.3 kWp		
Size	**m²**	-		
Energy production	**kWh/year**	-		
Cost	**€/m²**	-		