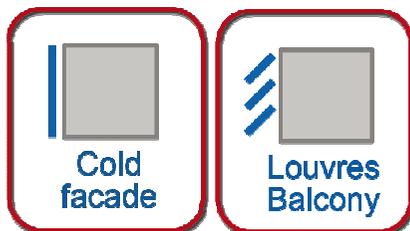


SUPSI

Swiss BiPV Competence Centre



Solarsiedlung „Hintere Luegeten“ Einsiedeln, Canton Schwyz (CH)

Building Details

CONTACTS

	Name	Website (or e-mail)
Owner	Sanjo group	www.sanjo.ch
Architect	Sanjo group	www.sanjo.ch
Energy Consultant	TRITEC AG Schweiz	www.tritec-energy.com
PV Installer	TRITEC AG Schweiz	www.tritec-energy.com

BUILDING

Completion year	2012 Building	2012 PV Plant	
Category	New	Renovation	Enlargement
Typology	Residential	Administration	Industrial
	Agricultural	Urban	Historical
Building Energy Performance	kWh/m ² y	-	

Description

The residential complex composed by 5 blocks, is located nearby the Einseiendeln village. It is characterized by a cladding in local wood: the choice of local building materials, the use of renewable energy and efficient technologies, contribute to make the building eco-sustainable. The energy production is based on solar collectors on the flat roof; PV elements on the roof and in the south façade, in correspondence of balconies. Energy produced is used to power electric cars, bikes and motorcycles in the underground garage as well as for the 90 apartments. Heating support is an automatic wood chip plant with wood coming from the forests around (short transport routes help to reduce of CO2 emissions).

Aknowledgments

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SOURCE: www.tritec-energy.com



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	Façade opaque cladding; Balcony cladding; On roof overlapped system (BAPV)			

ARCHITECTURAL EVALUATION

Color	Black (roof); .
Transparency	opaque
Frame	Anodized aluminium (roof); Frameless (façade);

COSTUMIZATION LANGUAGE AT COMPONENT SCALE

PV CELL	MODULE LAYERING	MODULE FEATURES	DUMMIES
DESCRIPTION			

SPECIFICATION

	Monocrystalline	Multicrystalline	Thin Film
Photovoltaic			
PV Module	Cells	a-Si/a-Si tandem (façade)	
	Module	Schott Solar Perform Poly 240 (Roof); Solar Protect ASI 103 (façade)	
Power	kWp	93.25	
Size	m²	720 (roof); 362 (façade)	
Energy production	kWh/year	84000	
Cost	€/m²	-	