



Photo: SUPSI-BFE

EFH Gasser

Ormalingen , Kanton Basel-Landschaft (CH)

Building Details

CONTACTS	Name	Website (or e-mail)	
Owner	Greti and Rolf Gasser		
Planning and construction management	GR-Engineering		
Renovation works and PV Installation	GGs AG Holzbau/Spenglerei	www.ggs-holzbau.ch	
BUILDING			
Completion year	1987 Building - 2012 Fasade renovation - 2015 PV Plant		
Category	New	Renovation	Enlargement Other
Typology	Residential	Administration	Industrial Sport
	Agricultural	Urban	Historical Other
Building Energy Performance	kWh/y	10'200	

Description

The mono-family house has been built in 1987. In 2012, the facade have been renovated in order to reduce the whole energy demand. In 2015, the original roof realized with conventional tiles has been completely replaced with a BiPV roof. The BiPV roof is characterized by the use of pleasant square solar tiles that are anchored on a special wood substructure. The use of the square solar tiles gives an homogeneous black appearance, thanks also to the use of dummies elements in the corners and along the edges.

Thanks to the BiPV roof and the envelope renovation, the building has the 225% of energy production and it performs as a Plus Energy Building.

Acknowledgments Schweizer SolarPreis 2015



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	In Roof Solar Tiles			

ARCHITECTURAL EVALUATION

Color	Black
Transparency	opaque
Frame	Frameless

COSTUMIZATION LANGUAGE AT COMPONENT SCALE

PV CELL	MODULE LAYERING	MODULE FEATURES	DUMMIES
DESCRIPTION	Square solar tiles with special roof sub-structure		

SPECIFICATION

Photovoltaic	Monocrystalline	Multicrystalline	Thin Film
PV Module	Cells	Monocrystalline silicon	
	Module	Sunstyle SolarDach	
Power	kWp	26.8	
Size	m ²	191	
Energy production	kWh/year	21'136	
Cost	€/m ²	-	