



SOURCE: www.kaempfen.com

Sunni Watt

Watt, Zürich (CH)

Building Details

CONTACTS	Name	Website (or e-mail)
Owner	Christoph Saager	chsaa@bluewin.ch
Architect	Kampfen fur architektur ag	www.kaempfen.com
Energy Consultant	Naef Energietechnik	www.naef-energie.ch
PV Installer	-	-

BUILDING

Completion year	2010 Building	2010 PV Plant	
Category	New	Renovation	Enlargement Other
Typology	Residential	Administration	Industrial Sport
	Agricultural	Urban	Historical Other

Building Energy Performance	kWh/m ² y	-
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Description

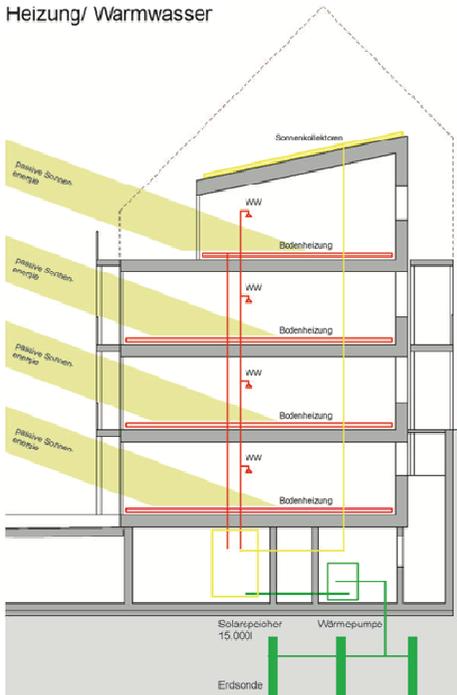
This is the first zero-energy residential complex in Zurich region. Synthesis of architecture, energy and ecology, it wins the Swiss Solar Prize in 2011 for "New building" category. The choice of ecologic building materials, wooden prefabricated structural system, high quality thermal insulation along with passive architectonic devices allowed reaching Minergie-P-Eco standard. The four terraced buildings, south faced, are parallel at level curves in a hilly area giving an ideal sunshine. The north façade, larch cladding, are high thermal insulated and have only small openings. The south façades have largely windows to maximize passive solar gain and deep balconies provide shading of interior space avoiding summer overheating. Solar thermal collectors support floor heating system, along with geothermal plant and heating pump. The same system is used for summer cooling. The PV plant, installed in all the sloped roof, supplies the 80% of total electric demand.

Aknowledgments Swiss Solar Prize 2011 Cat.: New building; Minergie-P-Eco



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Heizung/ Warmwasser



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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	In-Roof Solar Tiles (PV modules)		

ARCHITECTURAL EVALUATION

Color	black
Transparency	opaque
Frame	framless

COSTUMIZATION LANGUAGE AT COMPONENT SCALE

PV CELL	MODULE LAYERING	MODULE FEATURES	DUMMIES
DESCRIPTION -			

SPECIFICATION

Photovoltaic	Monocrystalline	Multicrystalline	Thin Film
PV Module	Cells	-	
	Module	-	
Power	kWp	104	
Size	m²	740	
Energy production	kWh/year	88400	
Cost	€/m²	-	