



Beat Kämpfen

Marché International Kempththal (ZH - CH)

Building Details

CONTACTS

	Name	Website (or e-mail)
Owner	Marché Restaurants Schweiz AG	http:// restaurants.moevenpick.com
Architect	Beat Kämpfen	www.kaempfen.com
Energy Consultant	SunTechnics Fabrisolar AG	www.suntechnics.ch
PV Installer	SunTechnics Fabrisolar AG	www.suntechnics.ch

BUILDING

Completion year	2007 Building	2007 PV Plant	
Category	<input checked="" type="checkbox"/> New	<input type="checkbox"/> Renovation	<input type="checkbox"/> Enlargement
Typology	<input type="checkbox"/> Residential	<input checked="" type="checkbox"/> Administration	<input type="checkbox"/> Industrial
	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Urban	<input type="checkbox"/> Historical
			<input type="checkbox"/> Other

Description

The project is based on passive solar building concept that, thanks to specific design strategies, allows to dramatically reduce energy demand. The building longitudinal shape allows to increase solar gains. The whole pitched roof is exactly oriented southwards with a tilt of 12°, and photovoltaic panels replaces the tiling system. The anthracite colour modules are used as roof tiles not requiring an additional watertightness layer. Marché Support Office is the first office in Switzerland that really reach a zero energy balance.



BiPV Details

LOCATION OF PLANT

Roof	Flat roof	Sloped	Curved
Façade	Cladding	Balcony	Greenhouse
Glass	Façade	Roof	Solar shading Canopy
Orientation	South	West	East North

ARCHITECTURAL EVALUATION

Color	anthracite
Transparency	opaque
Frame	Frameless modules
Acknowledgments	Swiss solar prize 2007, Energyglobe: National Award Switzerland 2008, Eurosolar 2008

SPECIFICATION

Photovoltaic	Monocrystalline	Multicrystalline	Thin Film
PV Module	Cells	a-Si (First Solar)	
	Module	Modules : 660	
Power	kWp	44.6	
Size	m²	485	
Energy production	kWh/year	40 000	