



# Logistic Center V-Zug

Zugo, Canton Zugo (CH)

## Building Details

### CONTACTS

	Name	Website (or e-mail)
<b>Owner</b>	V-Zug AG	<a href="http://www.vzug.ch">www.vzug.ch</a>
<b>Architect</b>	Betrix & Consolascio Architekten AG	<a href="http://www.b-c-arch.ch">www.b-c-arch.ch</a>
<b>Energy Consultant</b>	Ertex Solar GmbH (Facade)	<a href="http://www.ertex-solar.at">www.ertex-solar.at</a>
	Hefli Hess Martignoni AG (Roof)	<a href="http://www.hhm.ch">www.hhm.ch</a>
<b>PV Installer</b>	Suntechnics Fabrisolar AG (Roof)	<a href="http://www.suntechnics.ch">www.suntechnics.ch</a>

### BUILDING

<b>Completion year</b>	2009 Building	2009 Plant		
<b>Category</b>	New	Renovation	Enlargement	Other
<b>Typology</b>	Residential	Administration	Industrial	Sport
	Agricultural	Urban	Historical	Other

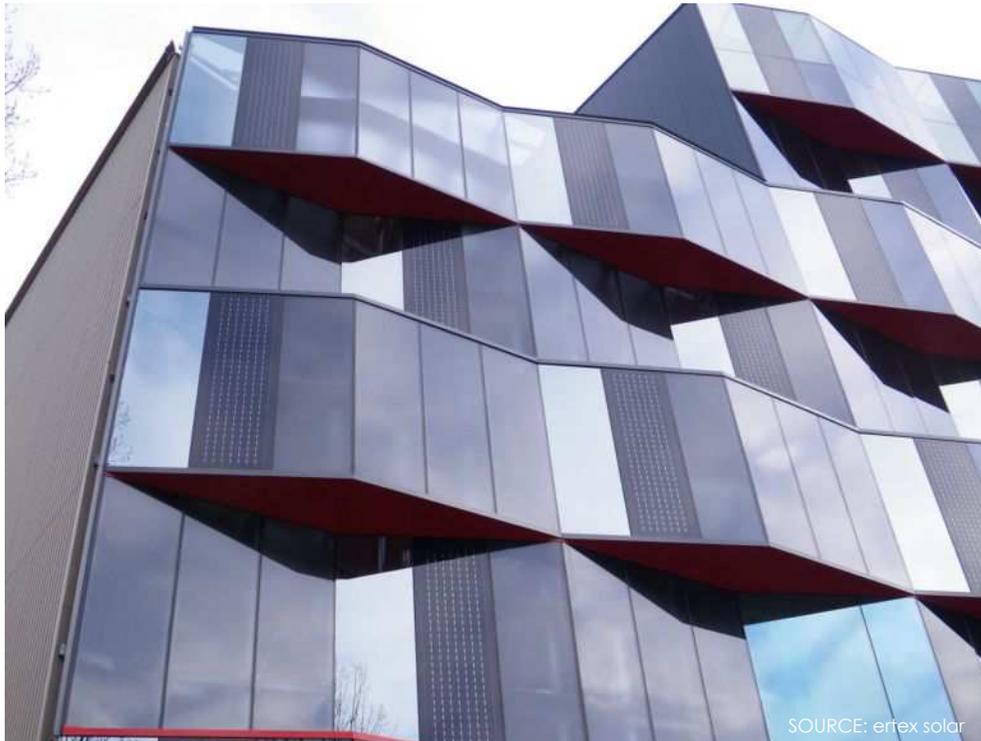
**Building Energy Performance** kWh/m<sup>2</sup>y

### Description

This is the logistic center of V-Zug in Zug, Switzerland. The building serves the V-Zug as a docking site for trucks. It is conceived to achieve high efficiency thanks to a compact shape and a double skin façade used to maintain low temperature fluctuations in winter and summer. A PV plant is integrated in south façade, with laminated insulating safety glass module, that reflect the surrounding landscape, contributing to form an interesting and important image of the building. Another important PV plant was installed on roof few years later. This ultra-lightweight PV system is one of the largest East-West systems. The advantage of this alignment is the higher packing density of modules power by area, ensuring optimum utilization of the roof surface. Thanks to its aerodynamically optimized shape the air flowing through the modules is steered away without turbulences. The annual energy production allows to provide the energy need for about 50 families.

### Acknowledgments

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SOURCE: ertex solar

## BiPV Details

### LOCATION OF PLANT

<b>Roof</b>	Flat roof	Sloped	Curved	
<b>Façade</b>	Cladding	Balcony	Greenhouse	Curved
<b>Glass</b>	Façade	Roof	Solar shading	Canopy
<b>Orientation</b>	South	West	East	North
<b>BiPV System</b>	Façade opaque cladding (cold façade); On-Roof Overlapped System (BAPV)			

### ARCHITECTURAL EVALUATION

<b>Color</b>	Black
<b>Transparency</b>	Opaque
<b>Frame</b>	Frameless (Façade) Anodized aluminium alloy (Roof)

### COSTUMIZATION LANGUAGE AT COMPONENT SCALE

PV CELL	MODULE LAYERING	MODULE FEATURES	DUMMIES
DESCRIPTION			

### SPECIFICATION

<b>Photovoltaic</b>	Monocrystalline	Multicrystalline	Thin Film
<b>PV Module</b>	<b>Cells</b>	Sunpower cells 125x125mm(Façade) Multicrystalline 156 × 156mm (Roof)	
	<b>Module</b>	VSG 1000x4500mm (Façade); 988 Trina Solar Honey 255W (Roof);	
<b>Power</b>	<b>kWp</b>	19.25 (Façade); 252 (Roof)	
<b>Size</b>	<b>m<sup>2</sup></b>	1800(Roof)	
<b>Energy production</b>	<b>kWh/year</b>	220000(Roof)	
<b>Cost</b>	<b>€/m<sup>2</sup></b>	-	