



# Matterhorn Glacier Paradise

## Klein Matterhorn – Zermatt (VS - CH)

### Building Details

#### CONTACTS

	Name	Website (or e-mail)
Owner	Zermatt Bergbahnen AG	<a href="http://www.zermatt.ch">www.zermatt.ch</a>
Architect	Peak Architects	-
Energy Consultant	sol-E Suisse AG	<a href="http://www.bkw-fmb.ch">www.bkw-fmb.ch</a>
PV Installer	3S Swiss Solar Systems AG	<a href="http://www.3-s.ch">www.3-s.ch</a>

#### BUILDING

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

#### Description

The solar restaurant was opened by Zermatt Bergbahnen AG on a mountain southward side in the occasion of the 2008/09 winter season. The building produces the whole energy amount required for heating and ventilation thanks to the PV facade. The design strategy ensures to satisfy Minergie-P standard requirements. The building concept is a reference for the entire alpine region. In the perspective of Zermatt Bergbahnen AG, anyway, this is just the first step on a path of intelligent use of solar energy in infrastructures. The installation at 3,883 meters above sea level required special modules and a special structural adhesive.

## LOCATION OF PLANT

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

## ARCHITECTURAL EVALUATION

Color	Dark blue
Transparency	opaque
Frame	Frameless modules
Aknowledgments	2010 Swiss Solar

## SPECIFICATION

Photovoltaic	Monocrystalline	Multicrystalline	Thin Film
PV Module	Cells	Ersol	
	Module	108 3S custom made modules	
Power	kWp	22	
Size	m <sup>2</sup>	170	
Energy production	kWh/year	37 000	

