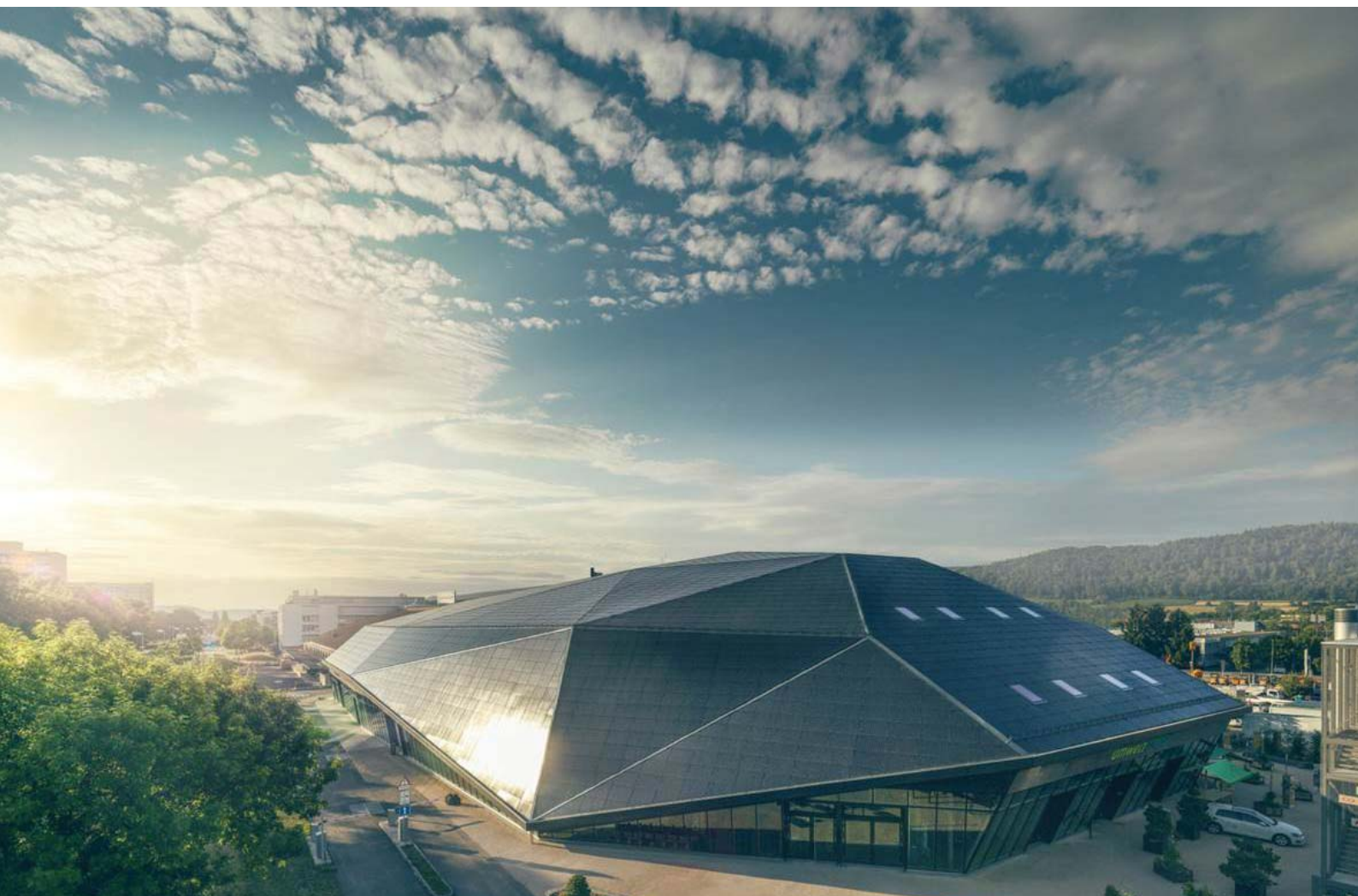




**SOLARCHITECTURE**  
building solutions



# UMWELT ARENA AG



## Address

Türliackerstrasse 4, 8957 Spreitenbach, Switzerland



## Location

47°25'29" N | 8°22'02" E



## Altitude

421 MAMSL

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# The energy factory

The Umwelt Arena is an exhibition and event platform for products and services for a modern, ecofriendly lifestyle. It is a Plus Energy Building (PlusEnergieBau PEB) as it produces twice its energy demands. The roof has an octagonal plant with 33 different surfaces, differently oriented, and with a slope from 6° to 62°. It almost stretches down to the ground, in the manner of a dome and it is completely covered with PV modules.



Building view.



Main entrance of the Umwelt Arena.

## Energy

Active solar surface	5,333 m <sup>2</sup>	–
Active solar surface ratio	< 75%	–
Peak power	737 kWp	–
Building skin application	Solar tiles	–

### Energy production

**540,000**  
kWh

### Self - consumption

**100%**

**103%** Energy surplus



# Building characteristics

## Building typology

Administrative

## Construction type

New

## Year of construction

2011

## Energy reference surface

12,734 m<sup>2</sup>

## Energy index

24 kWh/m<sup>2</sup>a (heating, cooling and electricity)

## Energy labelling

Minergie



The black and bright photovoltaic modules are reminiscent of the faceted cut of a crystal.

## BIPV module

### Product

3SMegaSlate @II

### Manufacturer

Meyer Burger Technology AG

### Cell technology

Mono-crystalline

### Cell colour

Black

### Dimensions

1300x875x6.5 mm

### Power

160 Wp



## Parties involved

### **Owner**

Umwelt Arena AG

### **Architect**

René Schmid Architekten AG

### **Photovoltaic installer**

BE Netz AG

### **Photovoltaic consultant**

BE Netz AG

### **Photo**

René Schmid Architekten AG

## Awards, recognitions & info.

### **Awards**

Schweizer Solarpreis 2012

European Solar Prize 2012

Norman Foster Solar Award 2012

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