

SUPSI

Swiss BiPV Competence Centre



Klimahaus Bremerhaven Bremerhaven (D)

Building Details

CONTACTS

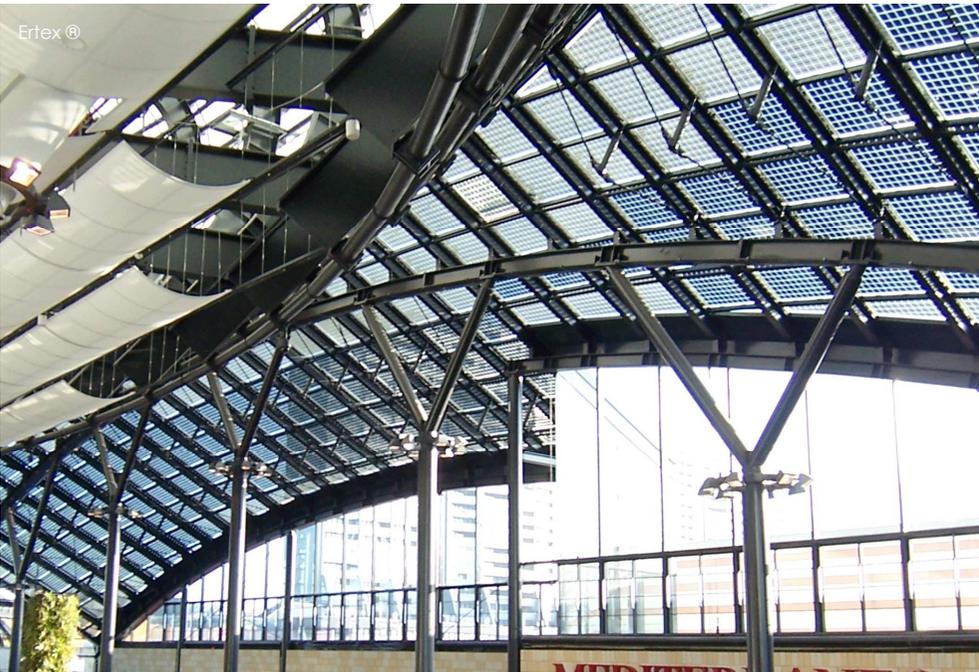
	Name	Website (or e-mail)
Owner	Bremerhavener Entwicklungsgesellschaft Alter/ Neuer Hafen	www.bean-bremerhaven.de
Architect	Klumpp Architekten	www.klumpp-architekten.de
Energy Consultant	Transsolar	www.transsolar.com
PV Installer	Ertex solartechnik	www.ertex-solar.at

BUILDING

Completion year	2009 Building	2009 PV Plant		
Category	<input checked="" type="checkbox"/> New	<input type="checkbox"/> Renovation	<input type="checkbox"/> Enlargement	<input type="checkbox"/> Other
Typology	<input type="checkbox"/> Residential	<input type="checkbox"/> Administration	<input type="checkbox"/> Industrial	<input type="checkbox"/> Sport
	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Urban	<input type="checkbox"/> Historical	<input checked="" type="checkbox"/> Museum

Description

The architectural design concept is a transparent, freestanding glass envelope wrapping around the internal concrete structure. Apart from facade-incorporated photovoltaic semi-transparent elements, for these exhibition areas only natural energy sources are used for cooling and ventilating. The chosen climate and energy concepts fulfill the aims of the project, which are to promote responsible behavior towards the environment in addition to providing information.



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

ARCHITECTURAL EVALUATION

Color	Black
Transparency	20%
Frame	Steel
Acknowledgments	UNESCO Decade Project 2009 and 2011 for sustainable development

SPECIFICATION

Photovoltaic	Monocrystalline	Multicrystalline	Thin Film
PV Module	Cells	mono-Si	
	Module	-	
Power	kWp	35.7	
Size	m²	511	
Energy production	kWh/year	30 000	