

M. Lindberg

Mont-Cenis Academy Herne (D)

Building Details

CONTACTS

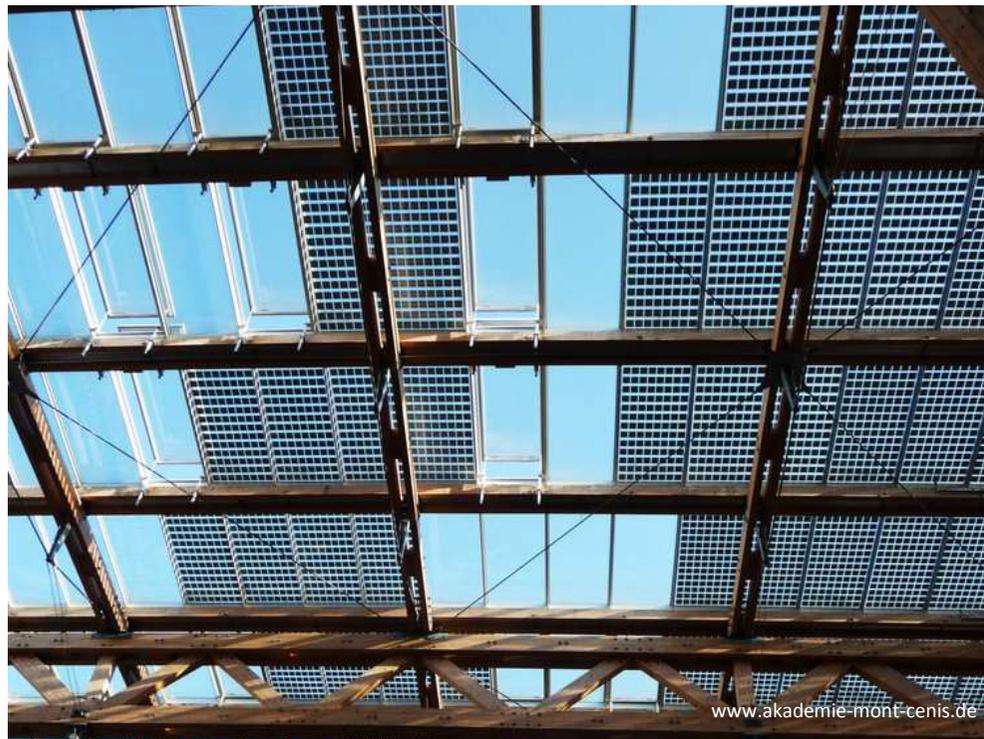
	Name	Website (or e-mail)
Owner	Entwicklungsgesellschaft Mont-Cenis	www.herne.de
Architect	Jourda et Perraudin	www.jourda-architectes.com
Energy Consultant	Hegger Schleiff	www.hhs-architekten.de
PV Installer	Flabeg Solar International	www.flabeg.com

BUILDING

Completion year	1999 Building	1999 PV Plant		
Category	New	Renovation	Enlargement	Other
Typology	Residential	Administration	Industrial	Sport
	Agricultural	Urban	Historical	Other

Description

The Mont-Cenis glazedshell accommodates a "building within building" with a length of 180 m, a width of 72 m and a height of 16 m. A total of 20,640 m² glass has been laid in aluminium frames. Of this, 10,000 m² are fitted with solar cells (for a total peak power of about 1 MW) allowing that all areas in the interior open spaces and inside the buildings are optimally lit and shaded. For this purpose, solar modules with lighting densities between 53 and 93 % (output 190 to 420 wp) were used. The solar field also supplies the necessary shade for the hall. Light reflectors in front of the windows of the inside houses intensify the supply of daylight to the rear areas.



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	Blue and black (roof: cloud effect), not structured blue (façade)
Transparency	86% - 56% (roof)
Frame	Structural sealant glazing
Acknowledgments	Architectural Review, Oct. 1999, p. 52-54, other publications

SPECIFICATION

Photovoltaic	Monocrystalline	Multicrystalline	Thin Film
PV Module	Cells	Solarex and ASE (roof), ASE (façade)	
	Module	Flabeg Solar, semitransparent	
Power	kWp	1 000	
Size	m²	10 500	
Energy production	kWh/year	650 000	