

## Academy Mont-Cenis Herne

### Client

EMC GmbH, Land NRW, Stadt Herne, IBA  
Emscher Park GmbH, Stadtwerke Herne AG

### Architecture

HHS Planer + Architekten AG in Partnerschaft mit  
Jourda & Perraudin Architectes, Frankreich, Lyon

### Structural engineering

ARUP, London,  
Schlaich, Bergermann+Partner, Stuttgart

### Building facility design

ARUP, London,  
HL Technik AG, Frankfurt am Main

### Landscape architecture

Desvigne & Dalnoky, Frankreich, Versailles  
Latz, Riehl und Schulz, Kassel

**Bearbeitungszeitraum** 06/1997 - 08/1999

**GFA / GV** 12.100 m<sup>2</sup> / 37.000 m<sup>3</sup>

**Service phases** 1 - 9

**Construction sum** ca. 23,0 Mio. Euro

### Awards

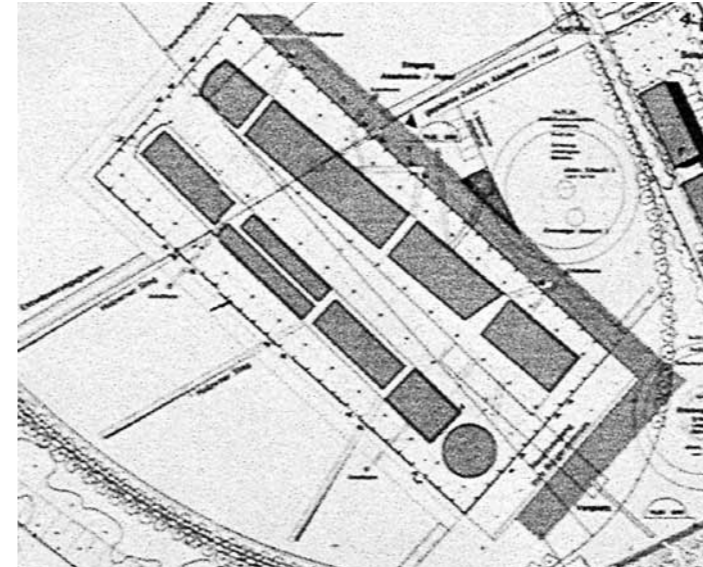
European Solar-Prize (1999),  
Holzbaupreis Nordrhein-Westfalen (1999),  
Bundeswettbewerb „Photovoltaik in Gebäuden“ (1996),  
International LIGNA plus Award 2001 „HolzBauArchitektur“

This building, part of the international Emscher Park showcase building project, was developed in partnership with French architects Hélène Jourda and Gilles Perraudin and constructed on a 25-hectare former colliery site at Mont-Cenis near Herne. Planned as a centrepiece in the middle of a large oval open space, the building is both a public space housing urban development and a milestone on the way to the energy patterns of the future.

The building has two components – the outer shell is a climatic envelope with façade elements consisting of single glazing and photovoltaic modules. The varying density of these modules enables the light and shade in the interior space to be specifically controlled without additional intervention. Within the shell a climate is created that is comparable to the Mediterranean region.

The houses inside could be built more or less as interior rooms, as they do not need to provide wind or weather resistance. Less floor area is needed inside the buildings, as the circulation areas are located in the planted interior-exterior space of the glass shell. The image is characterised by the use of natural materials. The loadbearing structure of the outer shell is of timber, as are the structural elements and cladding of the interior houses. The building has 9,180 m<sup>2</sup> roof- and façade-integrated solar modules and a total output of 1 MWp.





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