

Klimahaus® Bremerhaven 8° Ost (G)

Client:

Bremerhavener Entwicklungsgesellschaft Alter/Neuer Hafen (BEAN) mbH & Co. KG, Bremerhaven

Idea and Concept:

Petri und Tiemann GmbH, Bremen

User:

Klimahaus® Betriebsgesellschaft mbH, Bremerhaven

Completion / Occupation: 06/2009

Building area: about 20.000 m²

Architect:

Klumpp Architekten, Bremen

Execution Architect:

agn, Niederberghaus & Partner GmbH, Ibbenbueren

Structural engineer:

ARGE Prof. Bellmer Ingenieurgruppe GmbH, Bremen

Exhibition planner:

Kunstraum GfK, Hamburg

Building services (LP 3-9):

Schmidt Reuter GmbH, Köln

Climate Engineering:

Transsolar Energietechnik GmbH, Munich

Wolfgang Kessling, Christian Oberdorf

Brief:

The architectural design for the Edutainment Center is a transparent, freestanding glass envelope wrapping around the internal concrete structure. The house-in-a-house concept is used for the approx. 15,000 m² of exhibition area. In the 'travel' zone ('Reise'), the visitor will gain realistic experience of important climatic regions of the world. To this end, approx. 5,000 m² of the exhibition area are conditioned to reproduce extreme conditions ranging from arctic to moderate and subtropical humid to extremely dry desert climates.

A climatic concept for the other exhibition areas such as 'elements', 'perspective' and the foyer is compatible with the requirements of the exhibition and exhibit architecture and the varying visitor numbers. Apart from facade-incorporated photovoltaic 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.

