



Photo: NEUBAU best.energy



Museum of Drinking Water

Hangzhou, China

Located at an artificial reservoir in the drinking water protection area, the Museum of Drinking Water in Hangzhou was constructed according to the passive house standard in compliance with particularly strict specifications.

From design to completion, the project was accompanied by Neubau best.energy in the form of planning meetings as well as on-site inspections to ensure a passive house certification according to the Passive House Institute Darmstadt. In addition to the optimization of the buildings envelope, the necessary dehumidification and cooling of the large halls in this region has emerged as a challenge, which is covered by the ventilation system and cooled air intake elements.

Companies involved

Client

- Hangzhou Municipal Government Office

General planning, energy planning, quality assurance

- NEUBAU best.energy David Michulec

Facts

Museum

Completed 2021. Area: 1,992 m²

Energy and environmental aspects

- Heat and cold generation by multiple air source heat pumps
- Photovoltaic system on the roof
- Sophisticated ventilation system

Characteristic values

- Heating energy demand 13 kWh/m²a according to PHPP

Building labels and awards

- Passive house certification



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