



Photo: NEUBAU best.energy



## Passive House Office

### Jiaxing, China

After Neubau best.energy was allowed to realize the first passive house in the cold north of the People's Republic of China, it was a special challenge to realize the first certified passive house office building in the warm climate zone on the property of the CETC.

The three-story building with an area of 3.000 m<sup>2</sup> in the warm and humid climate of Jiaxing was implemented with 740 m<sup>2</sup> of photovoltaics on the roof. In addition to 120,000 kWh of electrical output per year, the area provides important shading for the building to reduce the cooling energy demand. The project was accompanied by NEUBAU best.energy from design, during construction and regulation up to certification.

## Companies involved

---

### Client

- CETC36

### Energetic optimization, project support quality assurance, passive house certification

- NEUBAU best.energy David Michulec

## Facts

---

### Office

Completed 2019. Area: 2,265 m<sup>2</sup>

### Energy and environmental aspects

- Heating and cooling provided by air source heat pumps
- Energy input via ceiling sails with humidity and dew point control
- Photovoltaic system on the roof

### Characteristic values

- Heating energy demand 8,47 kWh/m<sup>2</sup>a
- Blower door test: n50 = 0.16/h

### Building labels and awards

- Passive house certification



---

For further information contact the AGPB office:  
pulswerk GmbH | 1070 Wien, Seidengasse 13/3 | [agpb.at](http://agpb.at) | [office@agpb.at](mailto:office@agpb.at) | T +43 1 523 61 05