



Low energy buildings - Case Study: **Verwaltungsgebäude und Info-Center der Firma Linzmeier Bauelemente**



Category / year

Renovation with renewables and energy efficiency / New construction: nearly zero energy building or better -
Administrative and educational building (offices and Info-Center for customers)
Build in 1971 / renovated and new built (Info-Center) 2008-2009



Address

Linzmeier Bauelemente GmbH, Industriestr. 21, 88499 Riedlingen (Germany)



Contact details

Architects:

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Owner:

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Pictures





Description of the building

Detailed description:

Administrative building and educational building (new building Info-Center). Administrative part contains offices, meeting rooms and social rooms.

Net size is 1 475.55 m² (4 storeys) (renovated building) with 45 people working there. New built Info-Center contains training center (for customers), social rooms for production workers, and few offices with a total surface net of 734.30 m² (2 storeys).

Renewables:

- *Heating system for both buildings:* new heating system with a groundwater heat pump
- *Photovoltaic system:* on both roofs with a total energy production of 38.7 kWp



Energy consumption

Energy values:

- *Primary energy demand of administrative building before renovation:* 288.4 kWh/(m²·a)
- *Primary energy demand after renovation:* 76 kWh/(m²·a)
- *Primary energy demand of new built Info-Center:* 86 kWh/(m²·a)

Use of renewables:

- 100 % renewable (RES) fraction of the energy used for heating
- 100 % RES fraction of the energy used for hot water
- 100 % RES fraction of the energy used for cooling
- Energy produced by photovoltaic system: 38.7 kWp, fed to 100 % into official electricity grid
- Energy produced by groundwater heat pump, consumed by company Linzmeier Bauelemente GmbH



Links

Websites illustrating the building:

- www.linzmeier.de
- <http://www.zukunft-haus.info/de/verbraucher/effizienzhaeuser-zum-anschauen/effizienzhaeuser-suchen/einzelansicht.html?projektId:3348>

