



Photo: Georg W. Reinberg



Civiplex

Timișoara, Romania

The new office building constructed around an existing property meets all the requirements of sustainable construction. Clever shading allows for a wide south-facing glass front for solar gains in winter without overheating in summer. The photovoltaic system produces more electricity than the building needs, and this surplus is used in the e-charging stations for employees' cars. The electricity stored in the car can be reused at home. The building envelope meets the passive house standard. A heat pump with deep drilling is used for heating and cooling. A smart monitoring system in the building services supports the building's extremely low energy requirements.

The south-facing hall serves representative purposes, enables exhibitions and events, as well as get-togethers for staff. The actual office space is mainly north-facing, with east- and west-facing windows that can be shaded.

The office type developed by architect Georg W. Reinberg combines the different requirements and needs of such a building. The quiet work areas in the north allow for constant temperatures, which are also beneficial for the computer workstations. The south-facing recreation and lounge areas offer a stimulating environment with a view of nature.

Companies involved

Client

- CIVITRONIC SRL .

Simulation and energy concept

- IPJ Ingenieurbüro P. Jung GmbH

Architecture

- Architekturbüro Reinberg ZT GmbH

Facts

Office building

- Completed 2024
- Area: 730 m²

Characteristics

- Renewable primary energy (PER) according to PHPP: 42 kWh/m²a
- Heating demand according to PHPP: 12.1 kWh/m²a

Energy and environmental aspects

- Flexible options for use
- Passive house standard
- Heat pump with deep drilling
- Building component activation
- 102 kWp strong PV system with storage
- Ventilation system with heat or cold recovery
- E-charging stations for cars and e-bikes
- Biological plant-based sewage treatment system (no sewerage)
- Interior walls with loam plaster



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