

# Renewable Energy House Brussels



The Renewable Energy House, a 2.000 m<sup>2</sup> large office building with modern meeting facilities built in 1885, is since 2006 the central address for renewable energy issues in Brussels.

It shows, that any sustainable energy solution has to contain measures on both the demand and supply side, thereby taking into account energy efficiency and renewable energy technologies.

## Building data

### Building type

- Office Building (Modernisation)

### Measures performed

- 80 kW pellets boiler
- 60 m<sup>2</sup> of solar heating system with 5.000 l water storage
- 25 kW heat pumps (four geothermal energy loops – 115 m deep)
- 37,5 kW thermally driven cooling machine
- Installation of highly efficient ventilation system (85% heat recovery)
- Highly efficient lighting system
- 15 cm mineral wool insulation of the roof

### Energy savings

- 50 % less energy consumption compared to a reference building (650 GJ)
- Demonstration building for nearly all kinds of renewable energy technology

