

EPS saves valuable energy

Whether for new buildings or renovation of existing buildings, thermal insulation made of EPS helps save energy. This not only cuts heating costs, but also decreases dependence on the import of energy, often from areas of conflict.

- The first passive house project involving the installation of 27.5 cm EPS insulation in the outer walls of the building was successfully completed at Kranichstein (Germany) as early as 1991.



Source: Passivhaus Institut

Project data

Year built: 1991

Floor area: 624 m²

Heat demand: 10.5 kWh/m²a

- The renovation of a multi-family dwelling in Vienna using expanded polystyrene insulation demonstrates impressively that it is possible to slash the heat demand by 95 % compared with the previous level.



Source: Andreas Kronberger

Project data

Year built: 1888 / renovation: 2012 - 2014

Floor area as-built: 618 m²

Floor area loft extension: 215 m²

Heat demand prior to renovation:
178 kWh/m²a

Heat demand following renovation:
7.6 kWh/m²a

- The EU directive governing the energy performance of buildings, which came into force on 7 June 2010, aims for a 20 % cut in energy consumption in the Member States by 2020. In addition, by 31 December 2020 all new buildings must be designed as so-called nearly zero energy buildings.