

PASSIVHAUS UND ENEC-HAUS IN DER BESTANDSSANIERUNG

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Abridged Version

A lot of experience in passive house standards gained from building new houses is the basis for transferring this efficient technology to renovating old buildings

It is difficult to apply this new technology for existing blocks of flats, because the people have different thermal needs and the controlling process without an active heating system is a problem. The ventilation systems transfer the noise from one flat to another one. The concrete balconies transfer the cold air into the rooms in winter. The unoccupied cellars and stairwells make the cooling process in blocks of flats worse.

Four houses for six families each are to get modern housing designs after being renovated. Furthermore, these houses are to gain passive house standard and EnEV – standard after being renovated that is to say they don't need any heating systems. In addition to that, these houses are to be economically optimised regarding the costs for series production. As a result, environmentally friendly and energy saving residential buildings will be realised for the first time for the bulk of the population at low costs. Especially in big cities the energy saving potential and the reduction of emissions will be considerable, because the existing big housing estates which were built in the years after the 2nd World War have to be renovated anyway.

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