Neopor Insulation



1 tonne Neopor® saves 1,260 litres of heating oil Ready-to-use Micronal® PCM SmartBoard™ 23/26

Length 2,00 m

Width 1,25 m

Thickness 15 mm

Weight 11,5 kg/m²

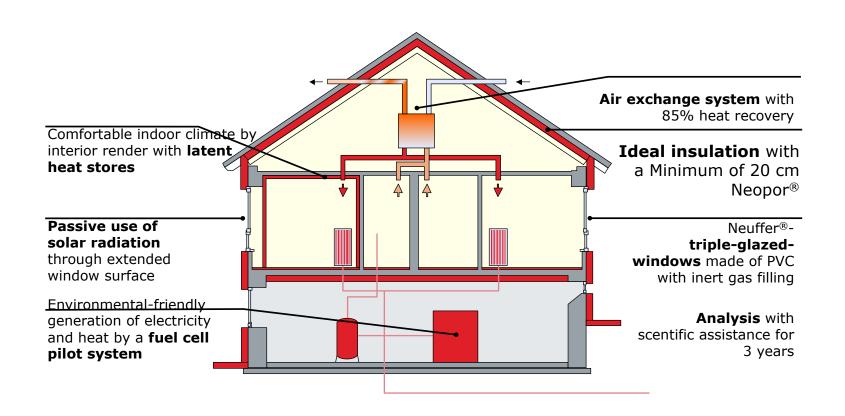
PCM content ca. 3 kg dry/m²

Heat capacity (latent) ca. 330 kJ/m²





Innovation on the 3-litre-house

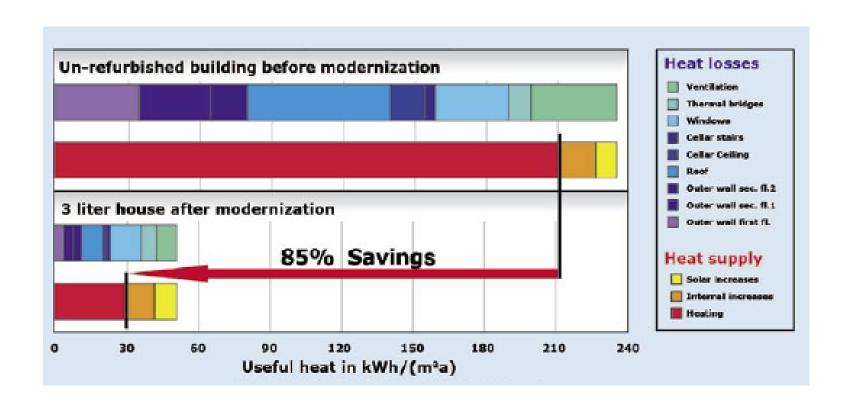


3 Litre house



2002: not even 3 litres of fuel oil needed!

Modernisation 3 litre house

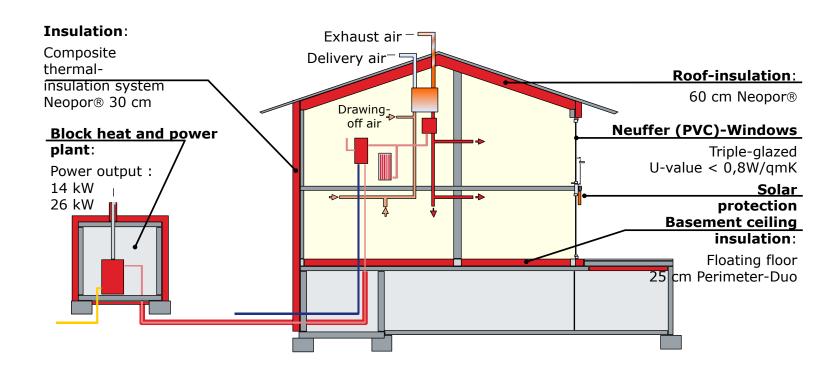


New building 1-litre-house

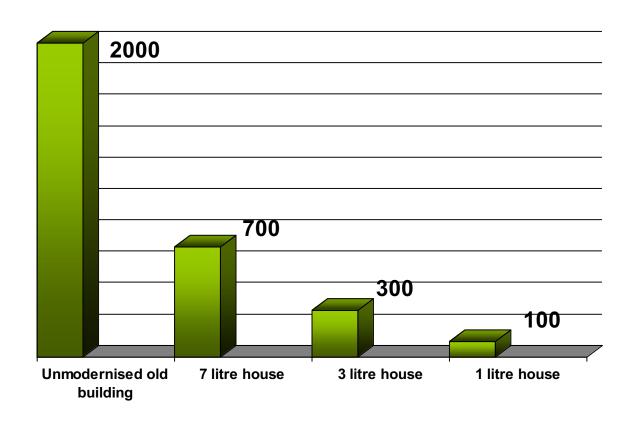




1-litre-town-house: technology



Heating fuel consumption litres



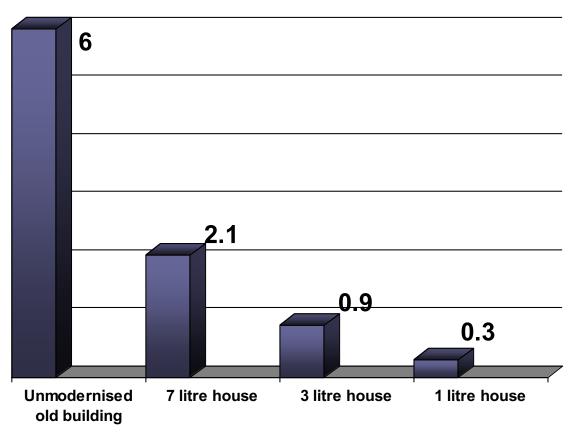
Apartment measuring 100 m² - yearly values

Heating fuel costs in £



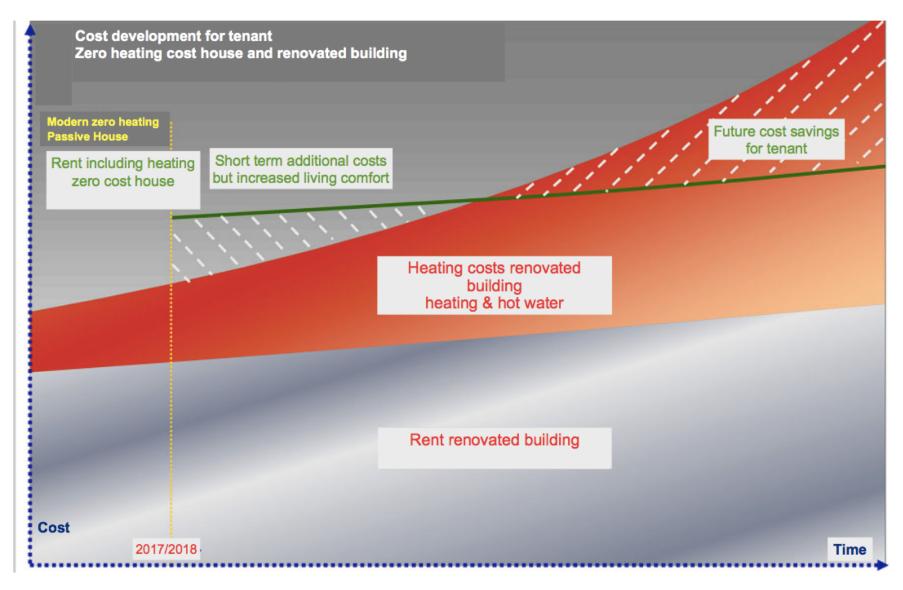
Apartment measuring 100 m² - yearly values

CO₂ emissions - tonnes



Apartment measuring 100 m² - yearly values

Zero Cost / Passive House



Value Enhancement

	No action	refurbishment	modernisation 7-Liter house	modernisation Passive house ventialtion	Zero heating costs house
	safeguard	Conservation of value	Value enhancement	Value enhancement	Value enhancement
Energy consumption	12 Litre	12 Litre	7 Litre	2 Litre	2 Litre
Heat cost object	tenant	tenant	tenant	- 0 -	- 0 -
Heating technology	conventional	conventional	conventional	- 0 -	- 0 -
Debit	240.000 £	648.000 £	972.000 £*	370.000 £*	300.000 £*
Loan	£ 0	£ 0	£ 0	1.200.000 £** 400.000 £	1.200.000 £** 350.000 £
Rent	4,10 £/m²	4,10 £/m²	5,25 £/m²	6,50 £/m²	6,75 £/m²
Maintenence	1,67 £/m²	1,33 £/m²	1,00 £/m²	0,70 £/m²	0,50 £/m²
Vacancy risk	25-35%	12,5-25%	5 – 10%	3,5-5%	3,5-5%
Return on investment	4 %	3,85%	6,50 %	6,3 %	8,00 %
Degree of innovation	- 0 -	- 0 -	standard	high	maximum

^{*}Activation ** KfW (German Government development fund)