

Object name

Casa INOVECO

Romania



Object photo



Object description

Casa INOVECO is a single-family detached house. Situated in a beautiful valley 10km far from Ploiesti. Exterior wall: wood structure with 15 cm polystyrene insulation and 18 cm cellulose. Roof: wood structure with polystyrene and cellulose insulation. INOVECO House is free energy and it uses only RES: 32 m² solar panels, PV system 3 kW, geothermal heat pump 9-12 kW with 2000 m horizontal pipes. The house has ventilation system with heat recovery, energy efficiency 98%.

Fact sheet

Single-family detached house

Treated Floor Area	270 m ²
Number of apartments	1
Completion date	2009

Energy standard [PHPP]

Heat requirement / year	<25 kWh/m ² a
Heat load	15 W/m ²
Primary energy requ.	120 kWh/m ² a
Air-tightness (n ₅₀ -value)	0,60 1/h
Building type	Timber construction

U-value

Exterior wall	0,12 W/m ² K
Roof	0,10 W/m ² K
Basement floor / Floor slab	W/m ² K
Windows / average	0,80 W/m ² K

Specification ventilation system

Heating installation

Construction costs	750 Euro/m ²
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Building owner

LIVIU OLTEANU

Architect / Planer

arh. Virgil Isăcescu / ing. Ovidiu Paul

Photo credits

LIVIU OLTEANU

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