



Deliverable D 4.3

Models on the energy performance for the different solutions

WP4

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Publishable summary

The deliverable D4.3 Models on the energy performance for the different solutions is a document delivered in the context of WP4 - Task 4.3: Modelling of energy performance of the different products. The objective of this task is the optimization of the solutions by modelling the energy performance for the different solutions to support the selection of the best technically solutions and project design.

T4.3 seeks to demonstrate the technical and economic feasibility of the innovative solutions developed within INNOWEE. The aim of the report is to summarise the outcomes of the modelling of the solutions developed in INNOWEE which include the energy performance and cost-effective analysis of the different solutions once applied to the demonstration sites. The modelling and optimization performed within Task 4.3 will support the following process of installation of the new products and the outcome will be also used as a starting point for Task T6.2.

The report includes the following information: description of the methodology, energy and hygrothermal characterization of the solutions (ETICs, ventilated façade and radiant ceiling/walls panels), cost effective analysis and main key performance indicators achieved.

Abbreviations

DB-E+	DesignBuilder-EnergyPlus
EPS	Expanded Polystyrene
ETICS	External Thermal Insulation Composite System
GHG	Greenhouse Gas
HDG	High Density Geopolymer
HVAC	Heating, Ventilation and Air Conditioning
InnoWEE	INNOvative pre-fabricated components including different Waste construction materials reducing building Energy and minimising Environmental impacts
KPIs	Key Performance Indicators