



Deliverable D5.5

Construction of a scenario based on Pilot demo, 3 real demo sites and simulated 4 “virtual” demo case studies

WP5

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Other authors	CONSIGLIO NAZIONALE DELLE RICERCHE (CNR) R.E.D. SRL (RED) PIETRE EDIL SRL (Pietre Edil) PROIGMENES EREVNITIKES & DIAHIRISTIKES EFARMOGES AMSOLUTIONS (AMS) DIMOS VARIS-VOULAS-VOULIAGMENIS (VOULA)

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Publishable summary

This deliverable is result of task 5.4. The main content includes a) the validation of the building models for the real demos sites, b) the development of the virtual demo sites models and c) European scenario for InnoWEE solutions

Regarding the Real Demo Sites, models are calibrated complying with the best practices for measurement and validation described in International Performance Measurement and Verification Protocol (IPMVP). Monitoring data from D5.2 is collected to validate previous models built in T4.3.

For Virtual Demo Sites case, data from each building responsible is collected to fully develop the model simulation. The choice of InnoWEE solutions to applied is based on real demo sites response, location and existing conditions.

Finally, a broad European scenario compiles all energy savings coming from the building simulations. This framework gives a good insight of the potential duplication of InnoWEE technologies in different climates.

Abbreviations

ach	Air changes per hour
COP	Coefficient Of Performance
DB-E+	DesignBuilder-EnergyPlus
EER	Energy Efficiency Ratio
ECM	Energy Conservation Measure
EPS	Expanded Polystyrene
ETICS	External Thermal Insulation Composite System
GHG	Greenhouse Gas
HDG	High Density Geopolymer
HVAC	Heating, Ventilation and Air Conditioning
InnoWEE	INNO vative pre-fabricated components including different Waste construction materials reducing building Energy and minimising Environmental impacts
KPIs	Key Performance Indicators
TMY	Typical Meteorological Year
VF	Ventilated Façade