



active managed buildings with
energy performance contracting

The EU-funded project AmBIENCE, which stands for '**Active managed Buildings with Energy PerformanceNce Contracting**', extends the concept and approach of business-as-usual Energy Performance Contracting (EPC) to Active Buildings – buildings whose assets can be controlled in an active way to enable the use of flexibility – and makes it available and attractive to a wider range of buildings. With advances in different technological fields such as ICT, Internet of Things, sensorisation equipment and automated control devices, AmBIENCE goes beyond the passive buildings concept by adopting the Active Control approach, using buildings' inherent flexibility to further reduce losses or costs, maximise the use of self-generated renewable energy, and offer services to grid and market stakeholders.

AmBIENCE will:

- ✓ Redefine the energy contract currently being applied
- ✓ Improve the smartness of buildings
- ✓ Identify and co-create innovative business models based on ICT and IoT
- ✓ Test the new Active EPC business models on 5 pilot buildings in Portugal and Belgium
- ✓ Involve a multitude of actors, from building managers to ESCOs, policy makers and financial institutions, in the participation to a broader EPC market

Proof-of-Concept:

The “proof of concept” is going to be developed in 5 pilots, based in Portugal and Belgium.



Hasselt, Belgium
3 Educational Buildings

EDPXL University
College Hasselt



Porto, Portugal
2 Office Buildings

EDP

Consortium:

The AmBIENCE consortium is composed of 7 partners based in 4 different countries – Belgium, Italy, Spain and Portugal.

It includes five internationally renowned research partners, VITO (BE), INESC TEC (PT), EDP CNET (PT), ENEA (IT) and IK4 (ES). With the aim of engaging the most relevant stakeholders in the building performance sector and to strengthen the consortium's stakeholders' network and dissemination activities, the AmBIENCE project is relying on BPiE (BE) as a partner. The commercial partners EDP (PT) and Energinvest (BE) are the responsible of demonstration sites as well as the link to a wider scope of stakeholders including end-users, energy service companies, and investors.



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