

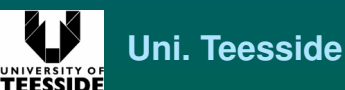
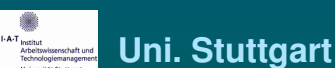
IntUBE



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Partners



Intelligent Use of Building Energy Information



Short summary

IntUBE will develop tools for measuring and analysing building energy profiles based on user comfort needs. These will offer efficient solutions for better use and management of energy use within buildings over their lifecycles. Intelligent Building Management Systems will be developed to enable real-time monitoring of energy use and optimisation. Neighbourhood Management Systems will be developed to support efficient energy distribution across groups of buildings. These will support timely and optimal energy transfers from building to building based on user needs and requirements. New Business Models to make best use of the developed Management Systems will be created. The results of IntUBE are expected to enhance not only the comfort levels of buildings users, but also reduce overall energy costs through better energy efficiency. These results will be demonstrated in at least three pilot cases: social housing in Spain, office buildings in Finland and a third case defined during the project.

IntUBE

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IntUBE Objective

- Increased life-cycle energy efficiency of buildings
- Enhancement of Intelligent Building and Neighbourhood Management Systems (IBMS and NMS)
- New ICT-enabled business models
- Improved building performance and efficiency of local grids through optimal integration of natural energy resources
- Reducing environmental effects and life-cycle energy costs
- Sustainable benefits for stakeholders, e.g. building owners, users, energy service providers or maintenance service providers

IntUBE Concept

- Energy Information Service Providers (EISP) collect, use and provide different data and information
- All stakeholders receive exactly the information they need for making energy-efficient decisions
- Enhanced business models and ICT tools enable the multi-phase and multi-role management of buildings' energy information

IntUBE Results

- Software tools for measuring and analysing building energy profiles
- Efficient solutions for better use and management of energy use within buildings over their lifecycles
- Intelligent Building Management Systems with real-time monitoring of energy use and optimisation
- Interactive visualisation of energy use for user comfort maximisation and energy use optimisation
- Neighbourhood Management Systems for efficient distributed energy production and optimal energy transfers among buildings
- New Business Models for the optimal use of the developed Management Systems

