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# Typology Approach for Building Stock Energy Assessment

## TABULA

The objective of the project was to create a harmonised model for European building typologies, in particular residential buildings. The developed national typologies, model the energy use (heat supply) characteristics of residential buildings. The set of typologies represent different construction periods and building sizes. The results of the building typologies are compiled and presented in the TABULA webtool (<http://webtool.building-typology.eu/> <sup>[1]</sup>), which is the data source for scenario analyses, one of the other key outcomes of the project. These scenarios can support policy makers, at regional, national or EU level on the level of savings achieved by renovating each of the selected building typologies. The webtool is offered in two versions: "standard version" and "expert version". The first version gives access to all information but the calculations are prepared in the background. The expert version of the webtool gives direct access to the underlying data used by the standard webtool version. All available building and system datasets can be freely selected, combined and viewed in detail. The TABULA webtool is available for 15 countries.



## Results

- Building type matrices (D4) for 15 countries, including all partner countries plus two associated partners.
- A webtool for disseminating the building typology concept, including typology information. The MS Excel workbook TABULA.xls is also available for flexible calculation of exemplary and average buildings with different supply systems.
- Evaluations of EPC databases with respect to typological criteria (D7) in 8 countries.
- Elaborated models for the national building stocks (D8) of 7 countries.
- Dissemination to experts, researchers and the EPBD Concerted Action.

## Lesson learned

- Despite the differences of building traditions and calculation standards in the participating countries TABULA demonstrated how it is possible to exchange and compare information about residential buildings' shapes, construction elements, supply systems and energy performance in different countries.
- An important precondition was the definition of a "common typology language". A precondition for the acceptance and for the utilisation of the typology concept in the participating countries is the existence of a national approach which is consistent with national traditions and standards.
- This project was able to support decision making processes on the implementation of refurbishment strategies and the implementation of the EPBD at national and regional levels.

## Partners and coordinator

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# Budget

Overall budget: 1.843.377,00 € (EU contribution: 75,00 %)

## Key documents

- [Final report](#) [15]  
PDF 8.16 MB 
- [Using Building Typologies for Stock Assessment](#) [16]  
PDF 8.72 MB 
- [Introduction to TABULA webtool](#) [17]  
PDF 1.05 MB 
- [Modeling residential energy use](#) [18]  
PDF 3.22 MB 
- [TABULA WebTool](#) [1]

## In brief

Sector: Buildings

Duration: 01/06/2009 to 31/05/2012

Contract number: IEE/08/495/SI2.528393

Website: <http://www.building-typology.eu/>

### Tags:

building  
certification

## Related projects

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- [[E-TOOL](#) <sup>[48]</sup>] Energy-toolset for improving the energy performance of existing buildings
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