

Current situation in WP 2 + WP 3

- all objects are identified
- found out the contact persons
- asked for all informations (plans, construction of components of the building, heating...)
- collected all available informations
- passed all documents to our extern experts for the calculation

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Current situation in WP 2

- experts have done first calculations: U-values, surface areas, heat demand
- heating, domestic hot water, lighting, cooling is accepted in the OIB-guideline; is only a draft (OIB = Austrian Institute of construction engineering)
- there is no software which implements the calculation draft from the OIB as a whole

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parts of the calculation

The diagram illustrates the energy flows within a building. It shows a cross-section of a multi-story building with various systems: a cooling system (blue lines), a ventilation system (purple lines), a lighting system (yellow lines), and a domestic hot water system (orange lines). A sun icon is shown on the left, representing heat demand. The diagram is labeled with 'cooling', 'ventilation', 'lighting', 'domestic hot water', and 'heat demand'. A box at the bottom left indicates 'end energy demand'.

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test of software programmes

- two draft versions of software programmes (upgrading of existing versions)
- several excel sheets (e.g. from the OIB-institute – not very developed)
- in every calculation are parts of the guideline missing
- find out the best version for our project

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collection of difficulties

simple questionnaire filled in by the experts
problems that appear with the

- data collection - building
- data collection – heating, technical equipment
- calculation (what simplifications or estimations were made)
- software

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Europasiedlung 6 / 8, Eisenerz

reconstruction foreseen this year (2006)
calculation of the renovated version
insulation standard: high
4 floors, 32 dwellings, 1600 m²
central heating: biomass



heat demand 35 kWh/m²a

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Auersperggasse 19, Graz

built 1970
insulation standard: low
7 floors, 35 dwellings, 2650 m²
central heating: oil



heat demand **120 kWh/m²a**

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Stregengasse 6 – 18, Graz

built 1997
insulation standard: high
2 floors, 28 dwellings, 2350 m²
central heating: gas



heat demand **64 kWh/m²a**

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Leonhardgürtel 34, Graz

built 1944 – 1952
insulation standard: low
4 floors, 35 dwellings, 2900 m²
individual heating



heat demand **152 kWh/m²a**

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Schörgelgasse, Graz

built 2006
insulation standard: middle
4 floors, 10 dwellings, 985 m²
central heating: district heating



no results
received until
now

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