Objectives and principle

- Objective : simplified calculation tool
- Principle : based on EN832
- Application area :
 - Estimation of fuel consumption,
 - Estimation of operation costs,
 - Comparison of different versions in design phase
 - Evaluation of building energy performance
 - Certification of buildings according to EPBD
 - "Passive house labeling" in Germany, Minergie in Switzerland



Energy balance of a building

HEAT LOSSES: Transmission

- 1141151111551011
- Thermal bridges
- Ventilation and in- or
 HEATFIGATION of air







Monthly heating load calculation or simulation?

Advantages compared to simulation:

- Requires less professional skills to use the tool
- Requires less time and input data
- Less risk of making mistakes

Disadvantages compared to simulation:

- Preciseness of results is ususally lower, ecause the input data are less deep
- Non applicable for daily, hourly energy demand calculations
- Non applicable for determining comfort parameters, variable indoor air temperature and summer performance of the building

