

Intelligent Energy



Europe

Project title: Life-Cycle-Costs in the Planning Process. Constructing Energy Efficient Buildings by Taking Running Costs into Account

Acronym: LCC-DATA

Duration: December 2006-May 2009

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Objectives

- The main goal is simplifying the data access to ease and extend the use of LCCA in construction, and hence improve the decision process towards more sustainable buildings. This means:
 - defining cost categories
 - develop database for storing and benchmarking of costs
 - ensure simplified data exchange between different ICT-tools used in planning and decision.
- Realistic LCCA, as a good basis for decision making, requires easy accessible data in all phases from brief to construction, where statistic information, key numbers and experience data is valuable information.

Target groups

- The main target group is professional building owners and facility managers, focusing on tertiary buildings, as office buildings, buildings for commercial activities and schools.
- Architects and consultants doing LCC is building projects

Work packages

- WP1 Management
- WP2 Development of LCC cost classification framework, systems for information exchange and data base
- WP3 Data collection
- WP4 Energy and LCC calculations
- WP5 Communication and Dissemination
- WP6 Common Dissemination Activities

Consortium

Coordinator:

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Partners

Austrian Energy Agency

CityPlan

Berlin Energy Agency

The Centre for Renewable Energy Sources

Building and Civil Engineering Institute ZRMK

Austria

Czech republic

Germany

Greece

Slovenia

Results

- Development of LCC cost classification framework with energy use and cost related building information. The system are based on existing standards, as
 - ÖNORM B 1801-1 Building costs – cost breakdown (1995)
 - ÖNORM B 1801-2 Civil engineering and building construction costs – Building data – User costs (1995)
 - DIN 276-1 Building costs - Part 1: Building construction
 - DIN 18960 User costs of buildings
 - NS 3453 Specification of building costs (1997)
 - NS 3454 Life cycle costs for building and civil engineering work - Principles and classification (2000)
 - Joint Nordic Proposal for classification of LCC (2005)
 - ISO 15686-5
 - Other national or organisation based systems

Collected cost information

- Real in-use cost for several buildings, over a time period (2-3 years) are collected and sorted by use of the classification system
- The cost information is linked to building information (size, type, installations, etc)
- The costs will be used as source for input for LCC calculations for other buildings, but also for the buildings studied