

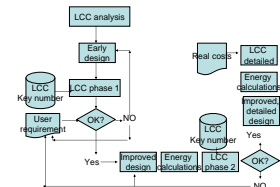


Project Fact Sheet

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Life-Cycle-Costs in the Planning Process. Constructing Energy Efficient Buildings by Taking Running Costs into Account (LCC-DATA)

Programme area:	SAVE, Energy Efficient Equipment & Products:
Status:	Finalised
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Website:	http://www.sintef.no/Byggforsk/Forskning-og-utvikling/LCC-DATA
Objective:	Simplifying data access and storage possibilities for LCCA in construction
Benefits:	Improved decision processes for more energy efficient and sustainable buildings.
Keywords:	Life cycle costing (LCC), construction, cost classification
Duration:	12/2006-05/2009
Budget:	€ 646788 (EU contribution: 50%)
Contract number:	EIE/06/154/S12.47798



Short description

Realistic LCCA requires accessible data in all phases from brief to construction. Statistic information, key numbers and experience data are valuable information. The goals of LCC-DATA is simplifying the data access as well as storage possibilities to ease and extend the use of LCCA, and hence improve the decision process towards more sustainable buildings.

More available data will remove the main barriers of taking LCCA in more active use. Comparable data gives the building owners possibilities to benchmark their building, with emphasis on energy use and operation cost, and lead to more focus on the operation of the buildings, as well as improvement of energy efficiency.

Pilot cases have been used to reach the goals, and the achieved results are as follows:

- National or European data base for input to LCC calculations and assessments.
 - o Cooperation with the IBI database for Austria
 - o Cooperation with the Network for benchmarking, Norway, with in addition to a data base for Norway having a European data base with possible access for more countries, having user interface in more languages
- Access to key numbers for benchmarking energy use and maintenance costs for different building categories.
 - o Access are given mainly to building owner contributing with own building cost, but also for user of cost information.

Expected and/or achieved results

- The project has defined the cost categories and building information entries to be used in cost data bases. The cost classification system is based on national and international standards.

- *Cooperation with owners and developers of data bases have been established, ensuring continuity in ownership, maintenance and further development.*
- *The Information Delivery Manuals for LCC at early design phase is delivered as input to IAI. The IDM also contains processes for Facility Management Service Life Planning and for calculation of energy demand.*
- *It has been organised work shops and training sessions to increase the knowledge of use of LCC, particularly in the early design phase.*
- *Work shops have also been organised to promote bench marking of facility management costs, and the ensure reliable use of LCC in tendering processes and private-public-partnership*

Lessons learnt

The project is finalised, with the following conclusions:

- International classification has difficulties, as though we can agree on the logical divisions, we also have to follow national standards that may differ.
- Ownership and maintenance of an international database is a challenging task, organising access, fees, communication etc, and we think the solution of using national owners or contact points is the best at this stage.
- The interest for use of LCC and benchmarking is maturing all over Europe, but for some country, the project seemed to be a bit to early to reach the marked.
- The organisation of network of building owners for benchmarking and further cooperation around the use of data base and creation of key numbers have been more difficult than thought, and have been time consuming, and still not with a high dree of success.