

Project brief

Key action:	Buildings
Status:	Under negotiation
Coordinator:	CIT Energy Management AB
Partners:	Aalborg Universitet, Denmark Bygherreforeningen / Danish Association of Construction Clients (DACC), Denmark Ramboll Danmark A/S, Denmark Estonian Regional and Local Development Agency (ERKAS), Estonia Bionova Oy, Finland SINTEF - Stiftelsen for industriell og teknisk forskning ved Norges tekniske høgskole, Norway Byggherrarna Sverige AB / Swedish Construction Clients (SCC), Sweden
Website:	null
Benefits:	tba
Keywords:	Energy efficiency, existing buildings, techno-economical method, energy audit, non-residential buildings, towards Nearly Zero-Energy buildings, 50% energy reduction.
Duration:	22/06/2014 - 22/01/2015
Budget:	1.0
Contract number:	IEE-13-613

Short description

This project aims to demonstrate that large scale energy performance improvements in existing non-residential buildings can satisfy profitability demands set by the building owner/investor and thus become a market driver for major refurbishment of existing buildings towards Nearly Zero-Energy Buildings.

Up till now, there is little support provided to the building owners regarding on how to best make investment decisions in order to improve the energy performance of their buildings and save on running costs. The decisions are often based on

profitability of single measures evaluated by simple economical methods which do not take account the life time of the total technical systems nor often even the changes in energy prices. With this approach only the very profitable measures are

commonly considered and carried out. In order to overcome this obvious risk and motivate building owners a new and innovative method, called the Total Concept

has been developed and successfully applied on a limited number of buildings. The basic idea with the Total Concept project is to make an energy saving package of all measures. In this project we aims to test, adopt and promote the Total Concept method in order to show that larger energy performance improvement in refurbishment projects can meet the demands of profitability set by the building owner and thereby create a market driver for major energy saving project.

Expected and/or achieved results

- Implementing Total Concept method opens up new opportunities for property owners to carry out retrofitting with major energy performance improvement in a profitable way, and thus create a market driver for major refurbishment of existing buildings towards Nearly Zero-Energy Buildings
- Resolving one of the main non technical barriers for finding economically profitable solutions for investments for energy performance improvements in non-residential buildings
- Increased awareness and competence among the different stakeholders to continuously work with energy issues related to the building performance on both short and long term scale

Lessons learnt:

- Grant agreement not yet signed

The project described above, together with many other European energy efficiency and renewable energy projects, is supported by the EU's Intelligent Energy-Europe programme. More details on this programme, and descriptions of all other projects, are available on <http://ec.europa.eu/intelligentenergy>.