



Pilot Building Drivhuset in Göteborg.

## A Nordic Built project

# The Belok Total Concept

**Belok Total Concept (BTC) method offers new opportunities for considerably improving energy performance in non-residential buildings.**

## Strategic objectives

The BELOK Total Concept (BTC) is a method for improving energy performance in existing non-residential buildings and applies a holistic approach to work with energy issues in the building. The aim is to achieve maximum savings in a cost-efficient way. Experiences show that with the BTC method it is possible to achieve total energy savings in a building up to 50 percent and more.

The BTC method promises considerable energy savings in non-residential building refurbishments. Its unique characteristics are likely to make it a market leader in the field of large scale energy-oriented refurbishment projects. To allow this expansion, we need to get the attention of key actors and stakeholders.

A northern European cooperative venture has been established with the aim to assure that commercialization of the BTC method will take place in Sweden, Finland and Denmark. The Nordic Built project aims to develop and test the strategies for commercializing and promoting the BTC method in the three Nordic countries.

### The Nordic Built project will:

- Increase business opportunities for the different external key actors involved in the BTC method implementation, make new services available in the market based on this method.
- Motivate building owner to carry out wider energy refurbishment and increase the number of projects following the BTC. Tested quality assurance will increase property owners' trust in the method
- Lead to considerable decrease in energy use in existing non-residential building stock in participating countries.

## Background

To decrease the total energy use in the building sector the ambitions by the building owner's to carry out energy retrofitting projects needs to be increased.



The BTC method has been developed by the BELOK group in Sweden with the aim to motivate the property owners to carry out larger energy refurbishment projects in non-residential building sector. The method has also been introduced to other Northern European countries, including Denmark and Finland. The aim is to adapt the method to their national conditions and assure that the stakeholders and key actors have sufficient technical know-how on method implementation as well as commercial interest for business development based on the method.

### Nordic Built

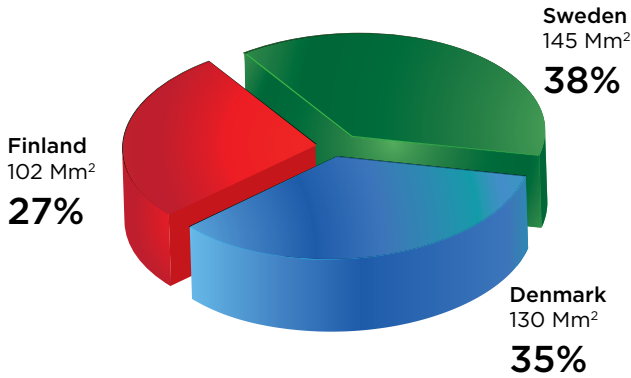
This project is co-funded by Nordic Innovation from the Nordic Built program, initiated by the Nordic Ministers for Trade and Industry. Nordic Built is a joint Nordic initiative to accelerate Nordic competitive concepts for sustainable built environment.

[Read more](#)

[bygggerre.se/verksamhet/belok-total-concept/](http://bygggerre.se/verksamhet/belok-total-concept/)

## Market potential

The size of the current non-residential buildings in the three Nordic countries gives large opportunities for retrofitting with energy improvements. The area of existing non-residential building is estimated to be in total about 377 million square meters.



Assuming that 1% of the area will be annually renovated based on the BTC method gives an estimated total investment volume of about 280 MEUR per year. For the consultants and energy experts (or service providers) involved in the implementation of the BTC method the annual market volume is estimated to be about 70 MEUR.

## Targets groups

The main target group of the BTC are key actors of the energy and construction industry:

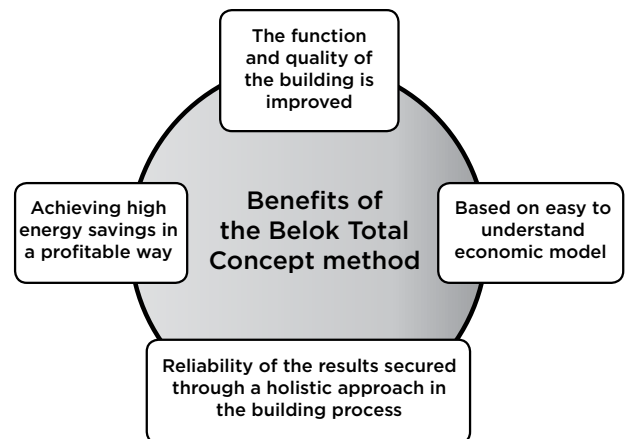
- Engineering companies with energy consultants who are working with energy performance improvement projects and have in-house experts and competence for detailed energy auditing of non-residential buildings.
- Engineering companies with design engineers and architects who can carry out the detailed design work for proposed energy saving measures
- Contractors and technology providers who can participate in the construction phase in carrying out energy saving measures according to the consultants' proposals.
- Existing ESCO companies and energy supply companies providing, who already are providing EPCs and ESCs for the property owners and who can adapt the BTC method to their business model.
- Energy Controller/ Energy Strategist who work in-house for the property owner's organization or is an external service provider for the property owner's company.

## Main benefits

The BTC method implementation provides an opportunity to access an essential part of the great energy savings potential in an existing non-residential building in a profitable way.

[Read more](#)

Nordic Built: The BTC, BELOK Total Concept. Strategies for commercialization of the BTC method.



## Project partners

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