

## LIFE CYCLE ASSESSMENT OF BUILDINGS

**An increased demand of buildings with low environmental impacts requires that the environmental performance is well documented. Life cycle assessment (LCA) is a tool used to meet the environmental requirements of buildings, and to reduce the environmental impacts. LCA is currently a part of several building certification systems. It is starting in 2022 also mandatory for most types of buildings in Sweden.**

A LCA quantifies the environmental impacts caused by a building during the entire life cycle or during parts of the life cycle. Moreover, it gives an overview of which materials and stages that contributes to the largest environmental impacts, making it easier to put in the right measures.

Currently, the environmental impact of a building usually is used as a basis in environmental certification. There are several commercial systems used in Sweden to environmentally certify buildings. The certification systems, Breeam and Leed, both requires some form of LCA calculations, among other indicators.

Ramboll has great experience of conducting LCA calculations for all certification systems, along with the competence to use additional tools, such as: Byggsektorns Miljöberäkningsverktyg (BM 1.0), One click LCA, GaBi etc. Ramboll adjusts, quality assures and presents necessary documentation to achieve the LCA requirements in an environmental certification.

Ramboll also offers fixed prices for Climate declarations according to the new regulation starting 2022.

### Life Cycle Assessments of Buildings

- Increased demand of buildings with low environmental impacts.
- LCA quantifies a buildings environmental performance.
- LCA is used as a basis in several environmental certification systems.
- The environmental impacts are often presented per building, per BTA and Atemp.
- Ramboll guides you to making the right decisions regarding extent and calculations.

### For further information please contact:

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