



# Boverket

Swedish National Board of Housing,  
Building and Planning

## Status and current issues from authority

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# Nordic Dialogue Forum for LCA, climate and buildings – background

Date	
May 2018	<a href="#">Declaration</a> from the Nordic Council of ministers. Strengthen the cooperation on harmonization of building regulation between the authorities in the Nordic countries.
Oct 2018	Upstart of the network <b>Nordic Dialogue Forum for LCA, climate and buildings</b> (authorities, academia, industry). First conference Nordic Climate Forum for Construction in Oct 2019 in Malmö.
Oct 2019	New <a href="#">declaration</a> from the Nordic Council of ministers on a Low Carbon Construction.

# Aim and purpose for the network

- Nordic harmonization of LCA for buildings
- Contribute to the development of the policy framework
- Nordic collaboration on issues related to LCA methodology
- Discussion between the authorities
- Bringing together key actors
- Collaboration on projects, such as development of methodology

# Organisation

The network consisting of a:

- Nordic authority group
- Working group with authorities, academia and industry (smaller group)
- Dialogue forum (bigger group open for everyone)
- Swedish life cycle center organize, facilitate and host a website on Swedish life cycle centers web

# Results so far

- Program for the working group
- Key areas of harmonization
  - Decarbonisation efforts
  - Assessment methods
  - Data and its flow
- Collaboration with national database in Sweden and Finland
- Discussion on development of assessment methods
- Meetings in the working group – about generic database, limit values, carbon handprint and measure of carbon neutrality
- Presentations of scientific studies about reference values for buildings in Norway, Denmark and Sweden (basis for limit values)

# Upcoming regulation in the nordic countries

Country	Denmark	Finland	Island	Norway	Sweden
Climate regulation for buildings, political decision	Limit values	Limit values			
	Climate Declaration	Climate Declaration		Climate Declaration	Climate Declaration
<b>General</b>					
Status, regulation will apply	Jan 2023	Under development		Jan 2022 (on hearing)	Jan 2022
Planned introduction limit values	2023/2025 - buildings over 1000m2 2023, all buildings 2025	Before 2025	Under investigation	Under investigation	Under investigation
LCA-tool requirement in regulation	No	No	No	No	No
Developed by	Housing and planning authority	Ministry of the Environment	Housing and Construction Authority	Norwegian Building Authority	National Board of Housing, Building and Planning

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	Climate Declaration	Climate Declaration		Climate Declaration	Climate Declaration
<b>General</b>					
At which stage will the regulation apply?	Completion of the building	Building permission & completion	Under investigation	Completion of the building (on hearing)	Completion of the building
Submitted results on climate calculation	Local authority	Local authority	Under investigation	Local authority	Public authority
Public register with results on climate impact	No	No	Under investigation	No	Yes
Verification required	No	In consideration	Under investigation	No	Yes
Methodological basis	EN15978, EN15804, Level(s)	EN15978, EN15804+A2, Level(s)	EN15978, Level(s)	EN15978, EN15804+A2, Norwegian standard NS 3720	EN15978, EN15804, Level(s)
Reference study period	50	50	Under investigation	60	n/a
Unit for reporting	kgCO2e/ heated m2/ year	kgCO2e/ heated m2/ year	Under investigation	kg CO2e/ grossfloor area/ year	kgCO2e/ grossfloor area

# Upcoming regulation in the nordic countries

Country	Denmark	Finland	Island	Norway	Sweden
<b>Data</b>					
Generic database (if defined)	Ökobaudat	National (2021)	No	No	National Climate Database mandatory
EPD's possible to use, if available	Yes	Yes	Yes	Yes	Yes
Data quality requirements defined	Yes	Yes	Yes	Yes	Yes
Penalty' factor on data	Conservative factor included in Ökobaudat	Conservative factor +20% for products	No	(Not relevant)	Conservative factor +25% products



# Upcoming regulation in the nordic countries

Country	Denmark	Finland	Island	Norway	Sweden
<b>Included life cycle stages</b>			Under investigation	On hearing	
A1-A3	x	x		x	x
A4 Transport to site	(x)	x		-	x
A5 Construction works	(x)	x		-	x
B1 Use in building	-	-		-	-
B2 Maintenance	-	-		-	-
B3 Repairs	-	-		-	-
B4 Replacements	x	x		x	-
B5 Refurbishment	-	-		x	-
B6 Operational energy use	x	x		-	-
B7 Operational water use	-	-		-	-
B8 Operational use	-	-		-	-
C1 Demolition works	-	x		-	-
C2 Transport	-	x		-	-
C3 Waste management	x	x		-	-
C4 Final disposal	x	x		-	-
D Benefits/loads beyond system	x	x		-	-

# Included building parts

- Load-bearing structures (DK, FI, NO, SW)
- Facade, doors and walls (DK, FI, NO, SW)
- Heating and cooling system (DK, FI)
- Installations (DK, FI)
- Fixed furnitures (DK, FI)

# Reflections

- Upcoming regulation in the nordic countries has made politicians to take steps forward – roadmap, climate declaration and limit values
- Good sharing of experience between authorities
- There are similarities and differences but LCA calculations between the different countries can not be compared today
- We look forward to discuss limit values in the network

# More information



## [Nordic Dialog Forum for LCA, climate and buildings](#)

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