

Nordic Trends in Wood Construction

Nic Eraig 02/03/2021

> mate. KIC is supported by the a body of the European Union



Nordic Wood in Construction Secretariat

- Initiative set up by Swedish Government and Nordic Council of Ministers for 2018-20
- Aim: to help realise wood's full potential throughout the construction value chain

Doing what?

- Support further development of the use of wood in construction in Nordic countries through projects that:
 - identify and break down barriers to using wood in construction, share knowledge, and increase Nordic cooperation







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Status of Forests and Construction in The Nordics and Russia

	DENMARK	FINLAND	ICELAND	NORWAY	SWEDEN	Russia
CARBON NEUTRALITY GOAL	2050 CO ²	2035 CO ²	2040 CO ²	2030 CO ²	2045 CO ²	n.a.
FOREST AREA (KM²)²	6,172	222,180	505	121,140	280,730	8,148,895
FOREST AREA (% OF LAND) ²	14.7%	73.1%	0.50%	33.2%	68.9%	49.8%

	DENMARK	FINLAND	ICELAND	NORWAY	SWEDEN	Russia
VOLUME OF TIMBER (MILLION M ³) ³	<mark>126</mark> ණුණු	<mark>2,328</mark> ණුණු	0.5	1,165 ආණ	2,996 <u>ஷ</u> ஷ	~82,000
ROUNDWOOD PRODUCTION (THOUSAND M ³) ⁴	3,483 00	68,289 000	4	12,822 ©©	75,100	197,612





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Five Trends in Nordic Wood Construction

Five trends in Nordic Wood in Construction today

Nordic Council



1: Public Procurement & Local Government



Local governments are driving the wood in construction market in two main ways:

- 1. Public procurement (schools, hospitals, kindergardens, public housing etc.)
- 2. Strategies to increase local wood construction







2: National Regulations

In every Nordic country there is new policy coming for new buildings and their climate impact.

- This will need to be calculated using a LCA approach and declared
- The result will be more wood, due to its low climate impact.

 Most Nordic countries now have targets and policies to increase the number of wood construction – the government wants to drive this change



3: Supplying a growing demand



Demand for all types of wood construction is growing rapidly in the Nordics

 However, production capacity for building elements (eg. CLT, glulam cannot keep up with demand, so must be sourced elsewhere (Austria)

 Multi-storey wood buildings are costcompetitive



increase in wooden apartment blocks built from 2018 to 2019



4: Cross Supply Chain Collaborations





These stakeholders all collaborate, cooperate and communicate together



5: Circular design



A big benefit of wood is how it can be reused after its first "life". This changes the economic case for building in wood.

- Building components are designed to be disassembled, keeping wooden elements higher in the value chain in their second life
- New products to provide circular alternatives to traditional building materials.
- Companies are transforming wooden 'waste' from the construction industry into new products and services.





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More info...

For more Nordic inspiration... 25 cases of Nordic good practice

 Showcases 25 examples of Nordic projects from throughout the construction value chain working with wood in exciting and innovative ways.

The aim is to **demonstrate the benefits and drivers** for building with wood, providing inspiration for the next generation of wood construction projects.



For the latest Nordic Wood in Construction Policy Snapshot...



Accelerating low-carbon construction with wood

a Nordic Policy Snapshot

Nordic Council of Ministers

) Nordic Co-operation

Publications

Accelerating low-carbon construction with wood – a Nordic Policy Snapshot

16/01/2021

Realising the Nordic vision of a carbon-neutral and circular built environment will be all but impossible without addressing the emissions from construction materials and processes. Sustainably sourced wood, as the only major renewable building material and a resource that the Nordic region has in abundance, has the potential to make a significant contribution to reducing carbon emissions from construction, supporting the shift towards a circular and bio-based economy. This publication gives an overview of the policies and initiatives helping and hindering progress in wood in construction in each Nordic country, identifying joint challenges and opportunities, and posing six questions that must be addressed going forward.



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Спасибо! Thank you!

I will post links and contact details in the chat

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Climate KIC is supported by the EIT, a body of the European Union

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