

## ***The construction sector aiming at zero CO2***

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Nordic Climate Forum



## **Big impact. Big responsibility.**

NCC is one of the leading construction and property development companies in the Nordic region.

The Group had sales of SEK 57 billion in 2017, with approximately 16.300 employees.

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# Construction and the build environment is a critical global CO2 source



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## The full energy picture

**Construction**

**Operations of buildings**

40 % of worlds energy \*

\*Huang, Elsevier 2018, Renewable and Sustainable Energy Reviews

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# What can we do to reduce the sectors CO2 emission?

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## Attack the full energy picture !

Construction:

1. Energy required for the **on-site** operations
2. Energy required for **materials, products** and **services**

Operations:

3. Energy required for **heating, cooling, maintenance** and **demolition**

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## Embedded energy

Construction:

1. Energy required for the **on-site** operations

2. Energy required for **materials, products and services**

Operations:

3. Energy required for **heating, cooling, maintenance and demolition**

23 % of worlds energy\*

\*Huangl, Elsevier 2018, Renewable and Sustainable Energy Reviews

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## Embedded energy



Energy efficient construction and design



Low impact materials

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## The next big leap towards reduction



Energy efficient construction and design

Low impact materials

- Realize the problem !
- Measurements needed !
- Regulations needed !
- Prize on CO2 eventually needed !

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## Embedded energy – a new paradigm in the sector

### Co-creation on the Nordic market:

*-knowledge sharing*

*-regulations (targets and measurements)*

### New EU leadership:

*-regulations (targets and measurements)*

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Added value of EU harmonisation  
of LCA. Integrated Nordic market  
for sustainable construction – input  
to policy-makers. Wishes for EU  
Commision?

MTM keynote præsentation, 15 min  
Josefina Lindblom, 15 min  
Esa Kallio, 15 min



Malmö  
3.oktober 08:30

På scenen kl. 09:15 – 10:00