

The Future for Construction



Stora Enso Wood Products

Jessika Szyber, 14 February 2019 Oslo

A photograph of a dense forest of tall, thin pine trees. The trees are mostly vertical, with some showing reddish-brown bark and others darker. The ground is covered in green moss and small rocks. A person is standing in the lower right corner, looking up at the trees, providing a sense of scale.

Introduction

Today's trends

Reference projects

Increasing demand for new solutions



Single family homes



Extensions



Schools



Offices



Public buildings



Special buildings



Hotels



Multi-storey houses

Challenges we face today

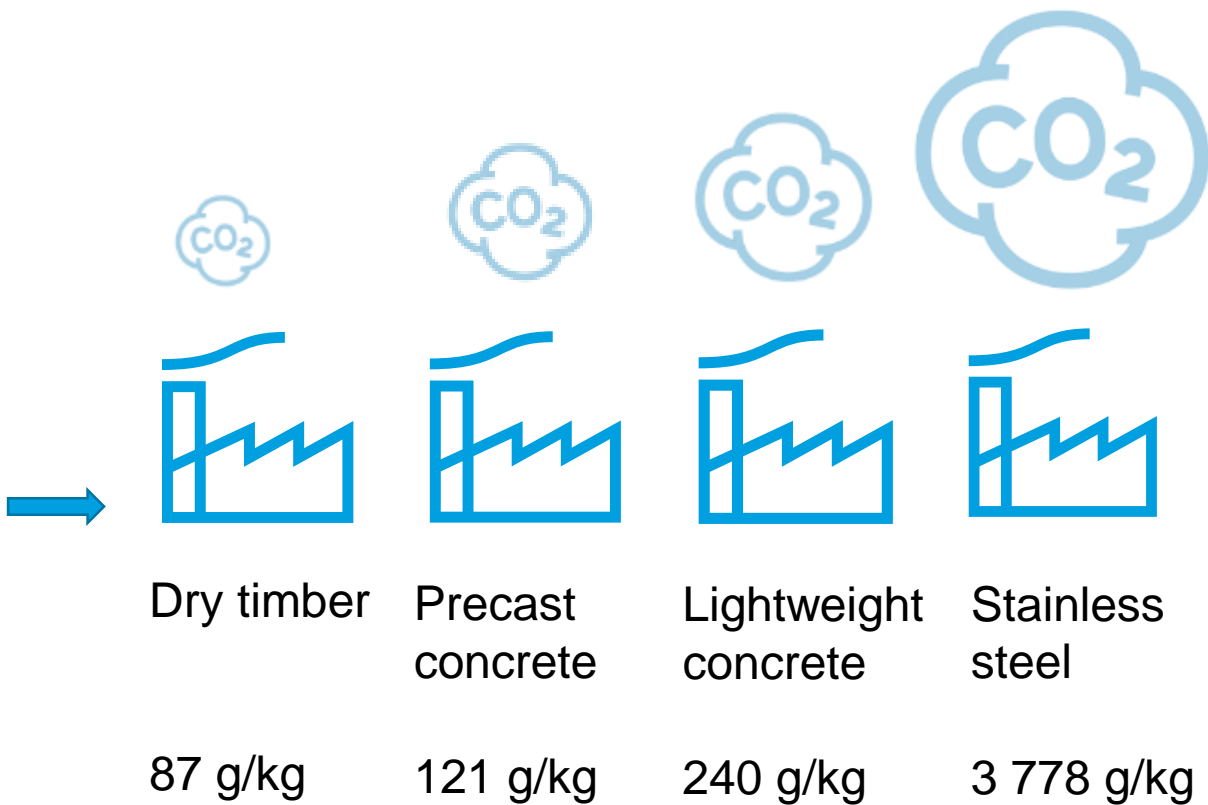
Global warming



CO₂ Emissions by sector

44% Buildings

34% Transportation



Source: Architecture2030.org, U.S. data

Source: VTT Technology 115 and the European ECO2 project, 2013

Wood

The solution for sustainable buildings



Building on our strengths –

A strong position, premium portfolio and positive outlook



Products



**Cross Laminated
Timber - CLT**



**Laminated Veneer
Lumber - LVL**



Construction beams



Classic sawn



Classic Planed



Industrial components



Biocomposites



Pellets

Services



**Panel systems
Building Systems**



Modular systems



**Walls, floor, roofs etc.
Building Components**



Distribution concept

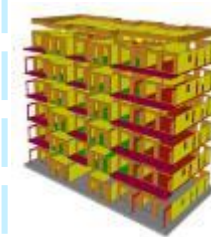
Digital tools



**MySupply
E-business**



Pellet webshop



**BIM
Digital tools**



CLT360



Calculatis

Building Concepts by Stora Enso



Focus markets

- Sweden
- Finland
- UK
- Germany
- France
- Austria

Preferred customer markets

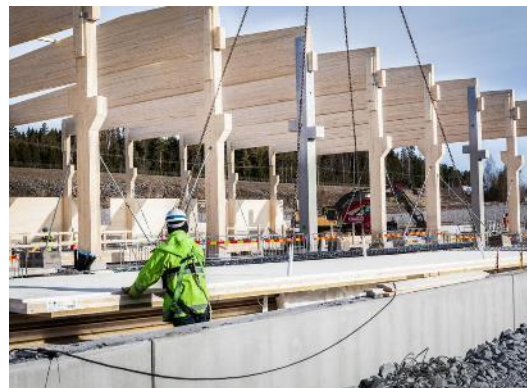
- Norway
- Australia
- Belgium

Emerging markets

- Croatia
- Czech Rep.
- Denmark
- Iceland
- Italy
- Kazakhstan
- Lithuania
- Luxembourg
- Netherlands
- New Zealand
- Portugal
- Slovakia
- Slovenia
- Spain
- Switzerland
- USA



New CLT mill taking shape in Gruvön, Sweden



CLT as construction material

Reference case: Trummens Strand Växjö



Photo: GBJ Bygg

Sustainability facts

19 minutes are needed to grow this amount of wood in the Swedish forest in a summer day

4 600 tons of carbon dioxide was removed from the atmosphere when building this project

CLT as construction material

Reference case: International House Sydney



Photo: Lendlease

Sustainability facts

6 minutes are needed to grow this amount of wood in the Swedish forest in a summer day

1 500 tones of carbon dioxide was removed from the atmosphere when building this project

CLT as construction material

Reference case: Student Houses Trondheim



Photo: MDH Arkitekti

Sustainability facts

20 minutes are needed to grow this amount of wood in the Swedish forest in a summer day

4 800 tons is the amount of carbon dioxide that was removed from the atmosphere when building this project

Innovations take wood to new heights



2011 R+7
Bridport House, UK



2013 R+5
Lintuviita, Finland



2015 R+7
Puukuokka, Finland



2015 R+9
Trafalgar Place, UK



2017 R+8
Moholt 50|50, Norway



2018/2019 R+7
Trummens Strand, Sweden



2019 R+13
Joensuu, Finland

2013 R+8
Via Cenni, Italy



2014 R+5-7
Crome Court, UK



2015 R+5-7
Eskolantie, Finland



2016 R+4
Ris de Orangis, France



2018 R+7
Wood City, Finland



2019 R+18
Mjöstornet, Norway



Photos: Stora Enso, promo_legno, Wilmotte & Associés, Voll Arkitekter AS, Arcadia Oy

THE RENEWABLE MATERIALS COMPANY

A photograph of a dense forest of tall, thin pine trees. The ground is covered in green moss and small rocks. A person is standing in the lower right corner, looking up at the trees, providing a sense of scale. The text is overlaid on the left side of the image.

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