



Build towards new heights with Södra





Together with the forest, we create the future



Södra in numbers (2022)

2,8 Members area :
milliones hectares

52 000 members

33 Net turnover:
SEK billion

3 300 employees

03 pulpmills

18 Timber volume:
million m³ fub

08 sawmills

02 CLT factories



52 000

Forest-owning members

Södra is Sweden's largest association of forest owners with 52,000 members.

We refine the sustainable forest raw material from the members' responsibly managed forests into renewable, climate-smart products and solutions that create value for many people.



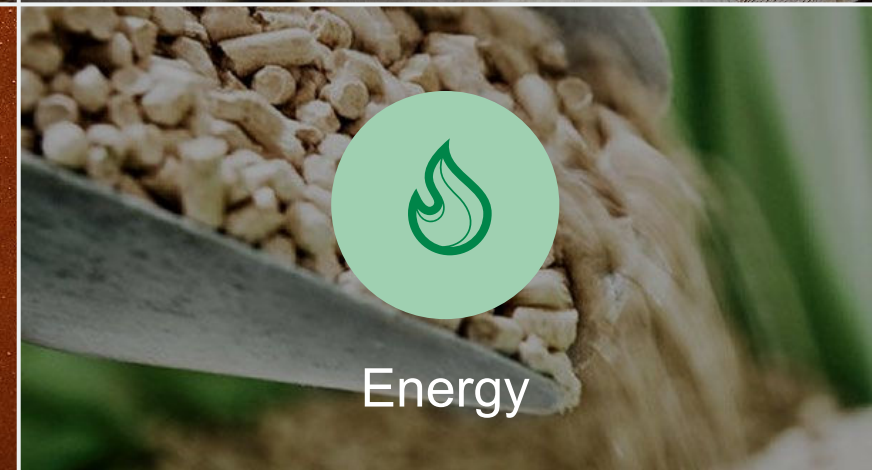
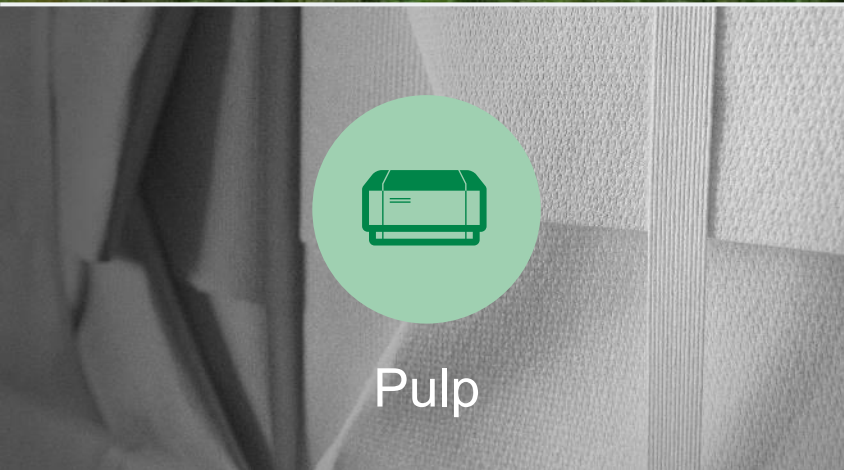
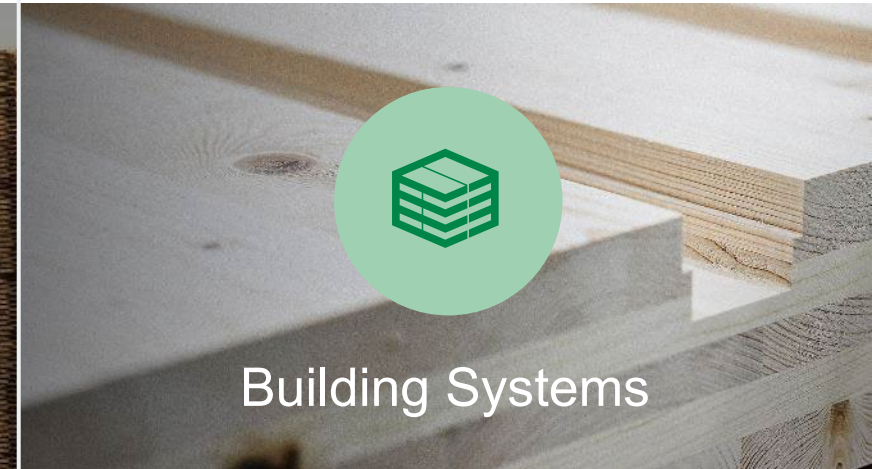
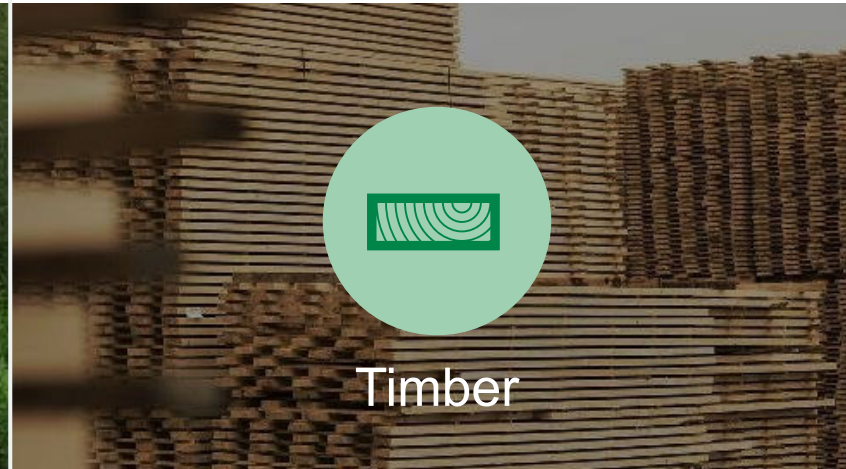
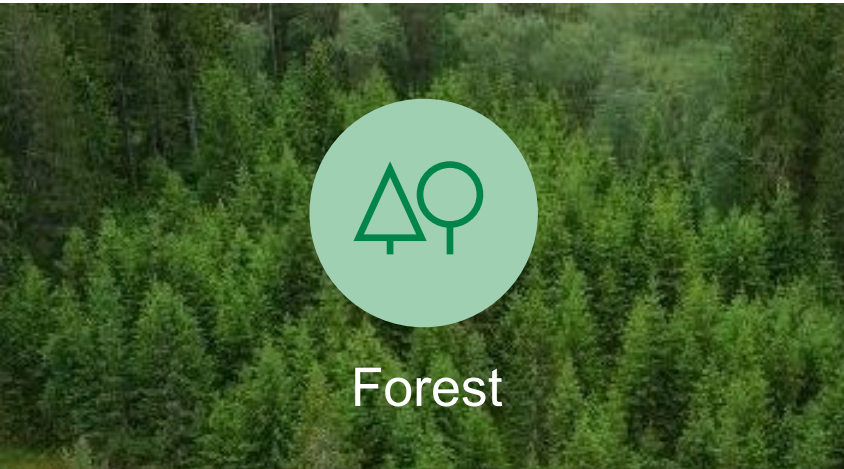
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Sustainable development

Members of Södra have managed the forest for up to ten generations.

On average, a member is a forest owner of 50 hectares, with a felling of 2 hectares. Forest growth in southern Sweden has increased over the years. We do not harvest more, but make more of what we harvest.

Renewable raw material from the members' forests

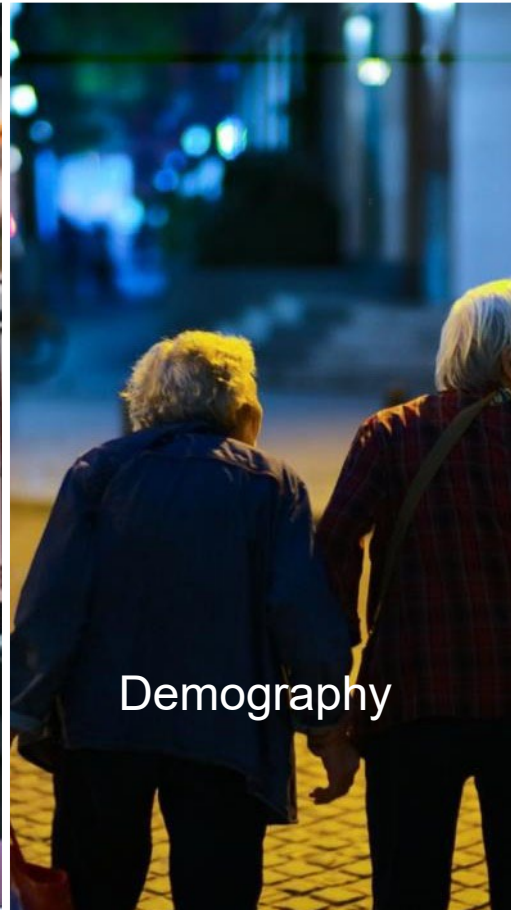


Innovation and new business

External environment



Digitalisation



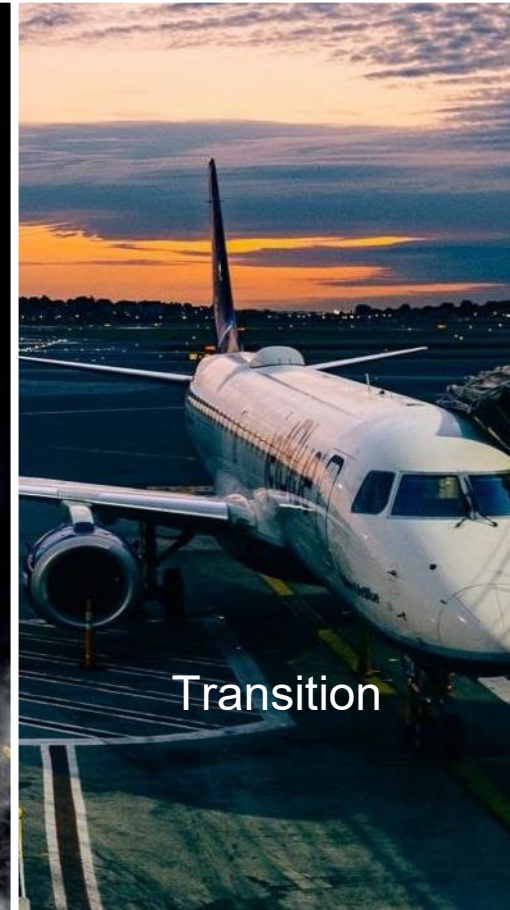
Demography



Geopolitics

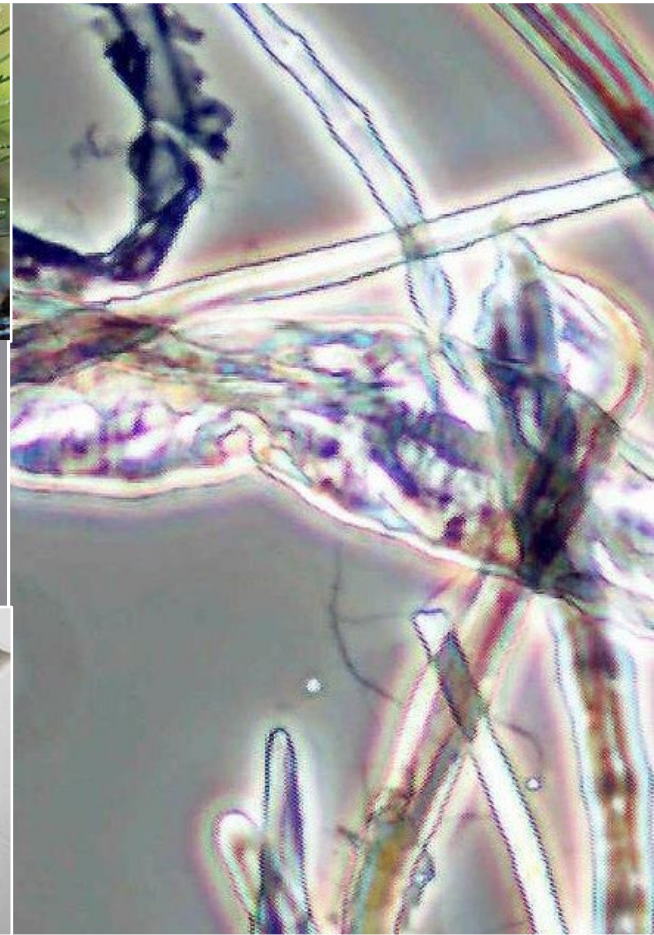
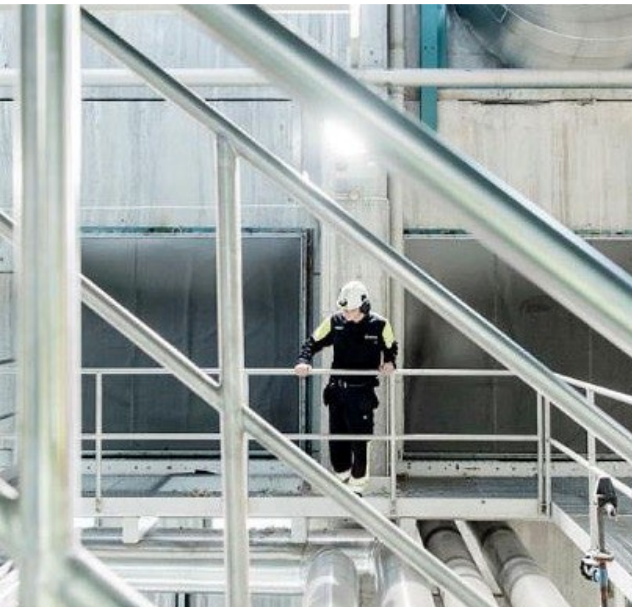


Climate change



Transition

Södra develops new solutions from the forest



Product and
process development



Increasing amounts of forest raw material in the products of the future



The business environment's needs drive innovation



More sustainable housing



More sustainable textiles



More sustainable packaging



More fossil-free fuel

Our customers are located throughout the world

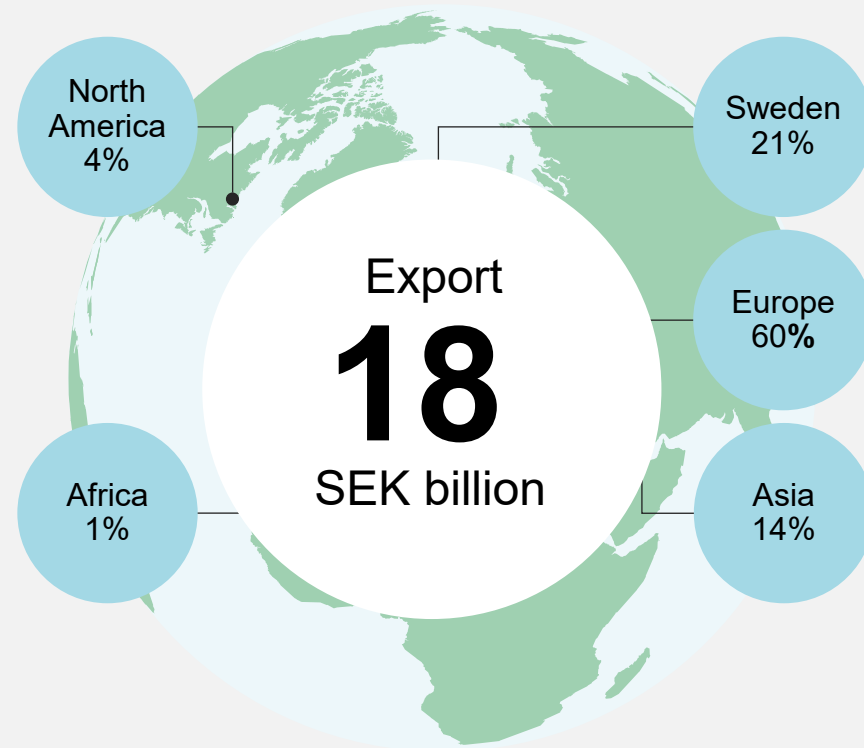
80%

of Södra's processed
products are exported

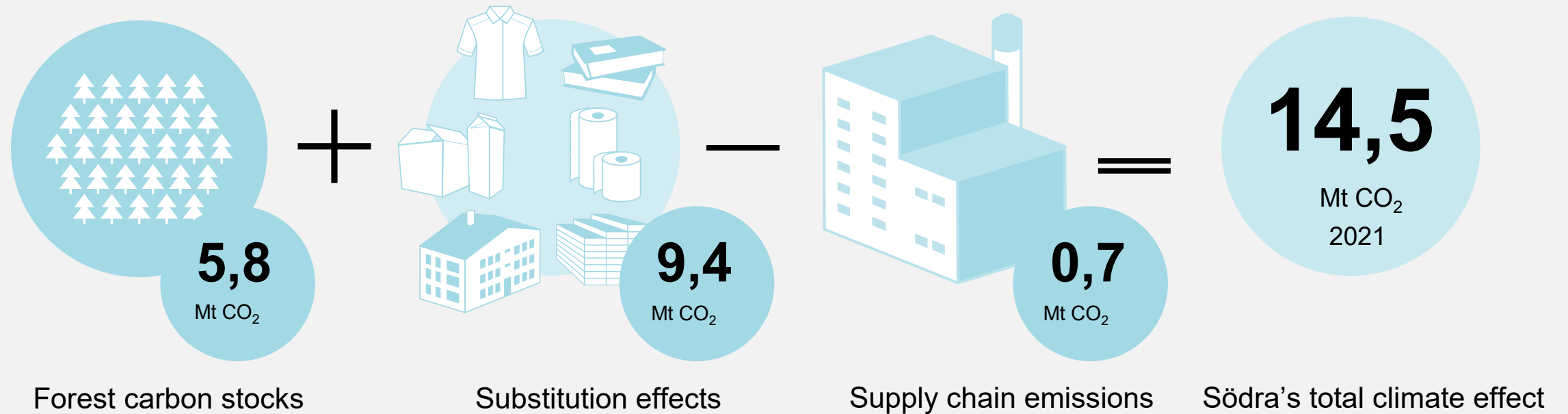


Destination for products from Södra's industries

External net sales by geographic market

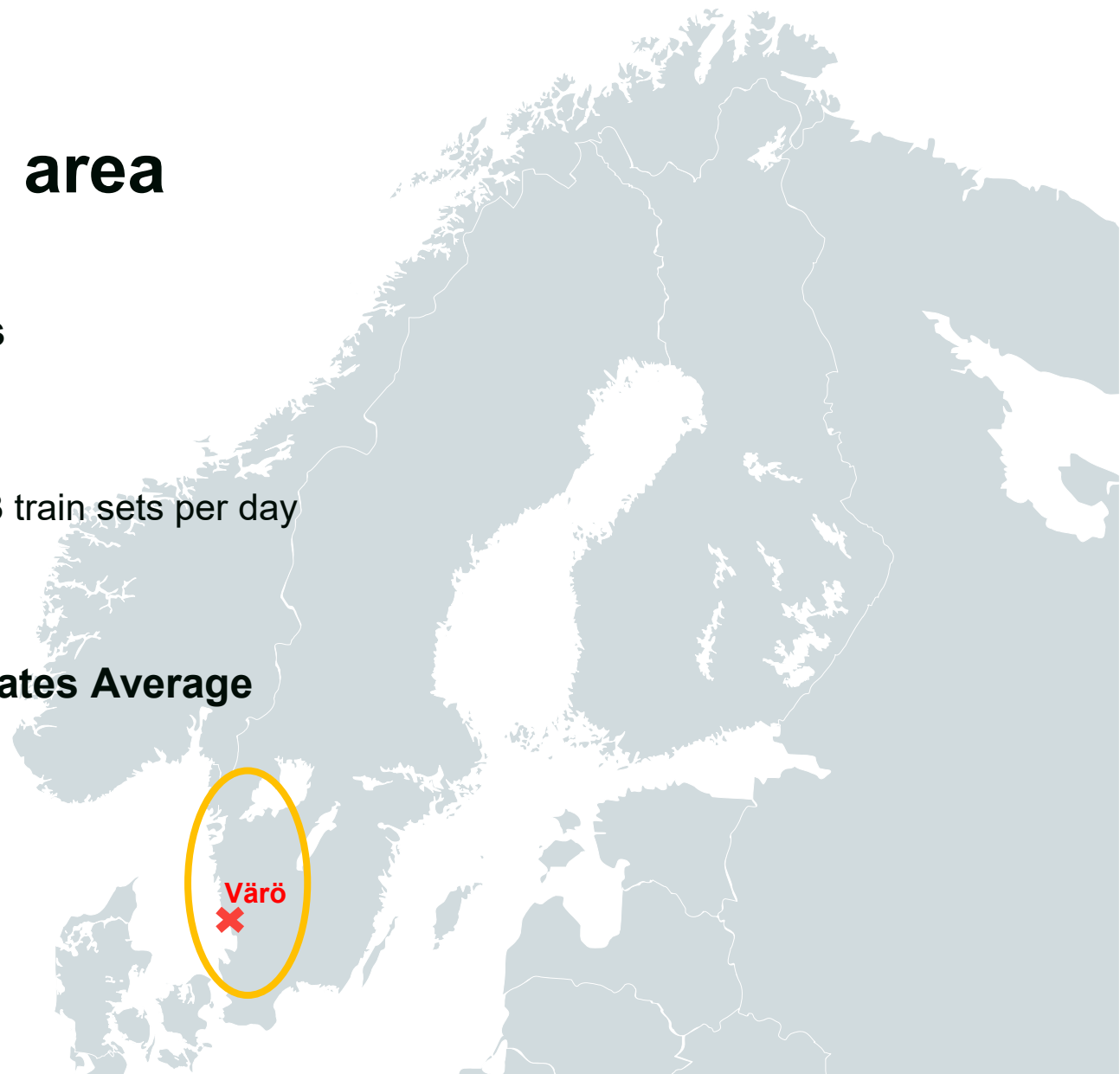


Södra's climate effect



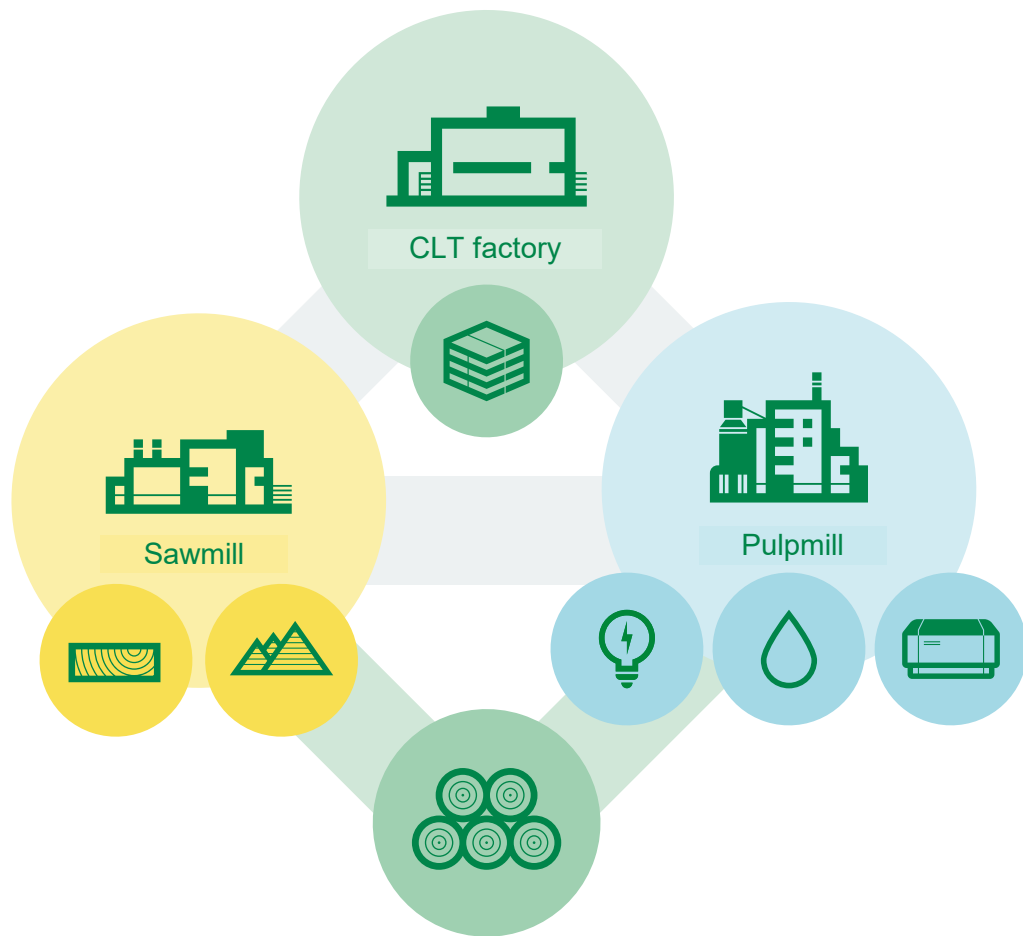
Our location and raw material area

- **One of Europe's largest timber reception sites**
 - 100.000 m³/week
 - 350 st timber trucks, of which part of this comes on 3 train sets per day
- **Fossil-free energy supply and net deliveries**
- **Completely fossil-free operations inside the gates Average transport distance saw raw material**
 - On average less than 100 km
 - 75% fossil-free vehicle fleet



The value from the combine

A sustainable production where all parts of the tree are used

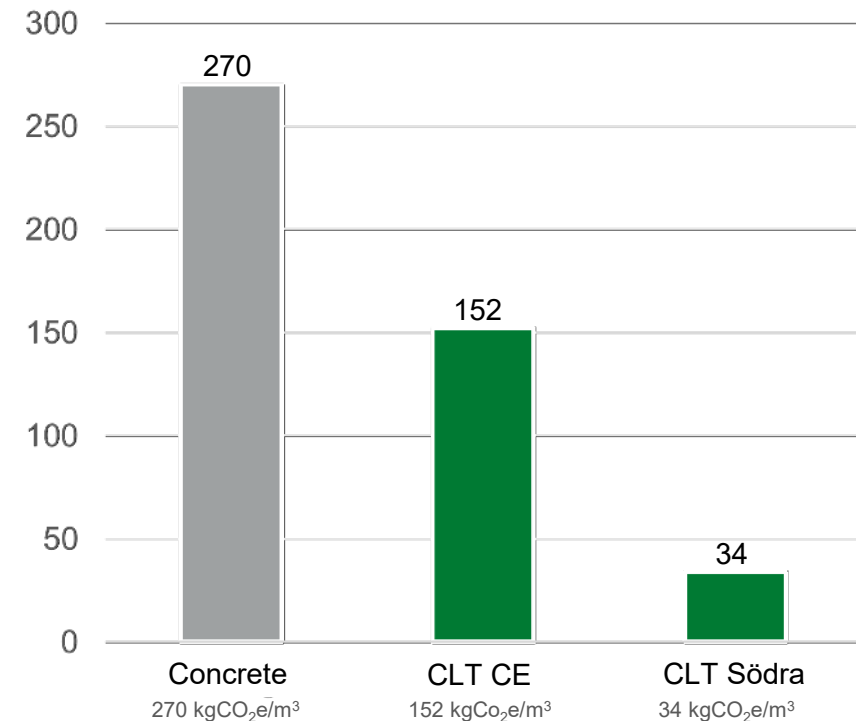




An **E**nvironmental **P**roduct **D**eclaration is defined by International Organization for Standardization 14025 as a Type III declaration that "quantifies environmental information on the life cycle of a product to enable comparisons between products fulfilling the same function."

EPD – the lowest climate impact available on the market

- Compared to concrete, a frame of CLT can generally reduce the climate impact by **50%**.
- With CLT from Södra, the impact is further reduced, as Södra's CLT only gives an impact of **34 Kg CO₂ e/m³**.
- This means a reduction of up to **80%** compared to today's classic concrete frame.

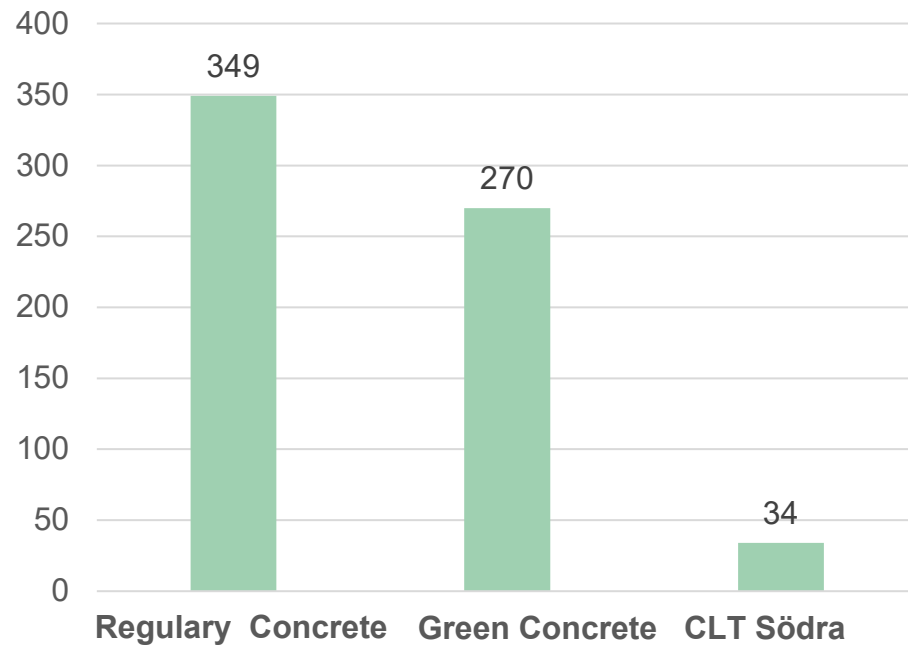


Climate impact of different building materials in the production stage (A1-A3) kg CO₂e/m³

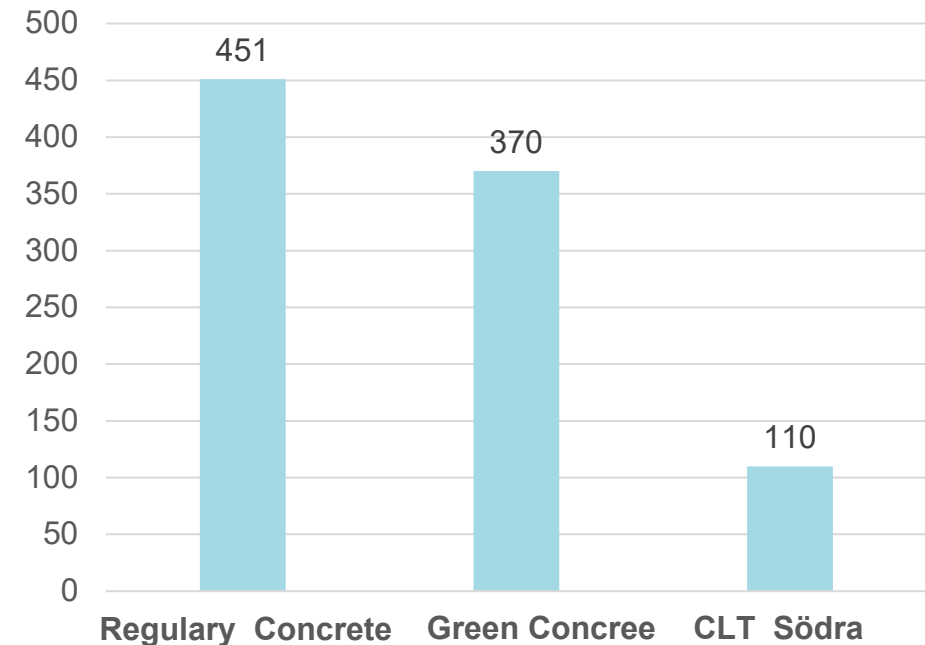
Reduced climate impact with Södra's CLT frame

Calculation from the Tärnan Residential Building in Varberg

Kv. Tärnan kg CO₂/m² livingspace excluding basement and garage



Kv. Tärnan kg CO₂/m² livingspace including basement and garage



The wooden house's climate benefits



2 000 m³ sawn timber

6 000 m³ of wood which simultaneously results in pulpwood and tops and branches.

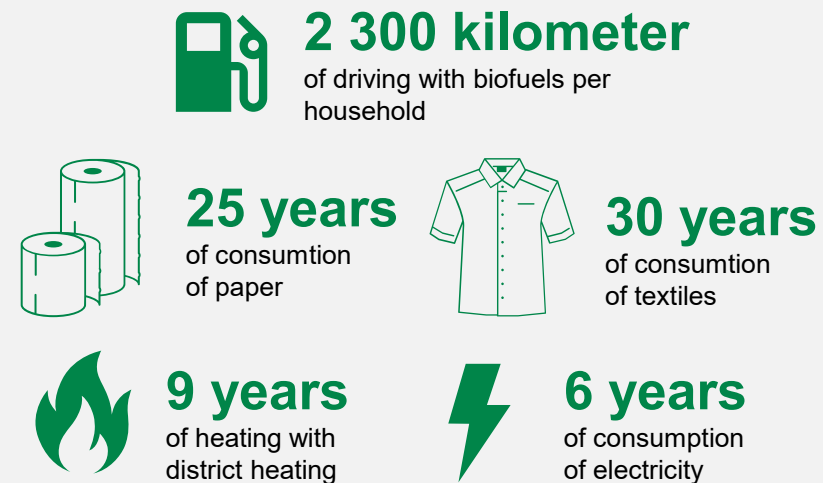
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8 storey apartment building

64 apartments (65 m²) for 128 residents.

+



Added value for the 128 residents

What the total production can correspond to



4000

apartments

A capacity of 80,000–100,000 cubic meters of cross laminated timber per year, a volume that is enough for around 4,000 homes.



Södra Building Systems

1st CLT-factory in Värö 2019

2nd CLT-factory in Värö 2022

Approx. **90** employees,
based in Värö, Växjö and Karlstad.

Our production site is strategic located in Värö together with our pulp factory and one of Europe's largest sawmills. Close to the expansive regions in the northern countries and international markets.



Södra in Värö

Pulp factory, saw mill and CLT-factory in one location









Cross Laminated Timber, CLT



Technical specification CLT



TECHNICAL SPECIFICATIONS

Panel width  Panel length 3.500 mm 16.000 mm	Panel thickness  60-280 mm	 Wood type Spruce	 Finger joints Individually finger-jointed lamellas
Structural configuration  3, 5, 7 layers	Density  $P_{mean} = 420 \text{ kg/m}^3$	Processing technique CNC machining Tolerance $\pm 3 \text{ mm}$	
Climatic conditions classification According to SS-EN 1995-1-1 Class 1 and 2	Adhesive Formaldehyde-free polyurethane (PUR) adhesive. Complies with SS-EN 14080, type 1, according to SS-EN 15425	Lamellas 20, 30, 40 mm thickness, C24	
Application Construction material for floors, roofs and walls	Moisture ratio $12\% \pm 2\%$	Certification CLT type-approved type 1 according to EN 16351 Possible to choose certified raw material, FSC® and PEFC	
Surface NVQ – non-visual quality IVQ – visual quality	Panel description 3s – 3 layers 5s – 5 layers 7s – 7 layers S2 – the two outermost layers in the same direction		

Frame complementary material

Delivered as desired

- Fasteners (screws & fittings)
- Acoustic material
- Sealing material (eg tape)
- The forge
- Glulam
- LVL
- Construction timber



Facades

Specification for offering

- Maintenance requests
 - Painted nature colored
 - Heat treated
- Flame retardant treated
 - Long term / short term
- Panel expression
 - Width
 - Standing/laying
 - Profiles
 - Two layers/lids
- Wood species
 - Fir
 - Pine
 - Cedar
 - Larch





**Every four hours,
an 8-storey house grows up
in our members' forests.**