

A photograph of a woman with long grey hair, wearing a dark jacket and boots, sitting on a wooden bench in a forest. A brown and white dog is sitting next to her. The forest floor is covered in moss, and the trees are tall and thin. The lighting is warm and golden, suggesting late afternoon or early morning.

# Rooted in the forest, we grow the future

***Eva Gustafsson***

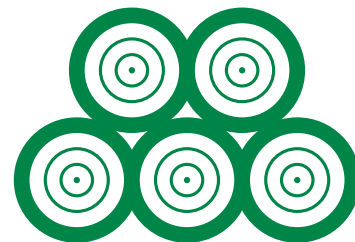
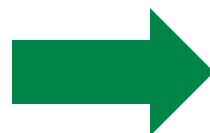
Sustainability Strategist

Södra Skogsägarna ekonomisk förening

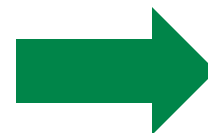


# Modelling Södra's climate effect

Södra Members



Södra Group



*Forest carbon*  
*(Value chain emissions)*  
*Avoided emissions*



*Forest carbon*  
*Value chain emissions*  
*Avoided emissions*

# Net sink in the forest

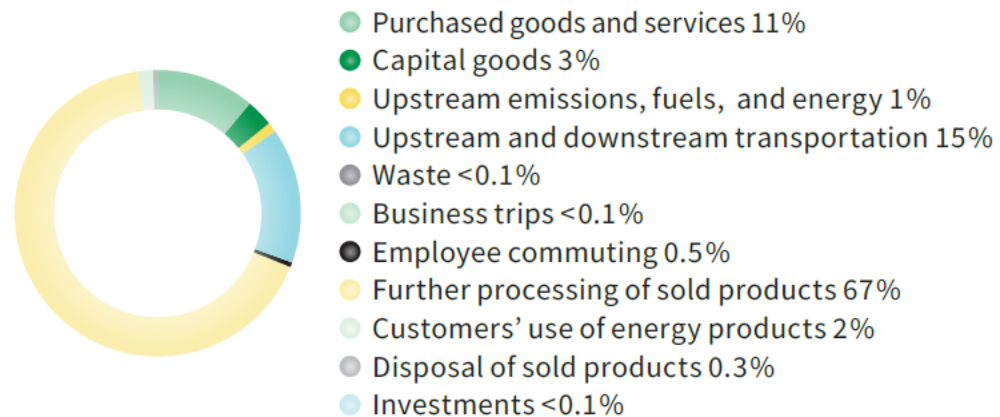
- Biological biomass growth, removals of biomass by harvesting and losses of carbon in biological processes or fires
- The net sink in the Södra Member's forest estates is calculated using the Swedish forestry statistics (Riksskogstaxeringen) adopted to Södra Members (4.6 Mt CO<sub>2</sub>)
- The net sink in the forest for Södra Group is calculated using statistics from internal forest management plans (0.4 Mt CO<sub>2</sub>)
- Forest raw material sourced from external suppliers are assumed to be neutral



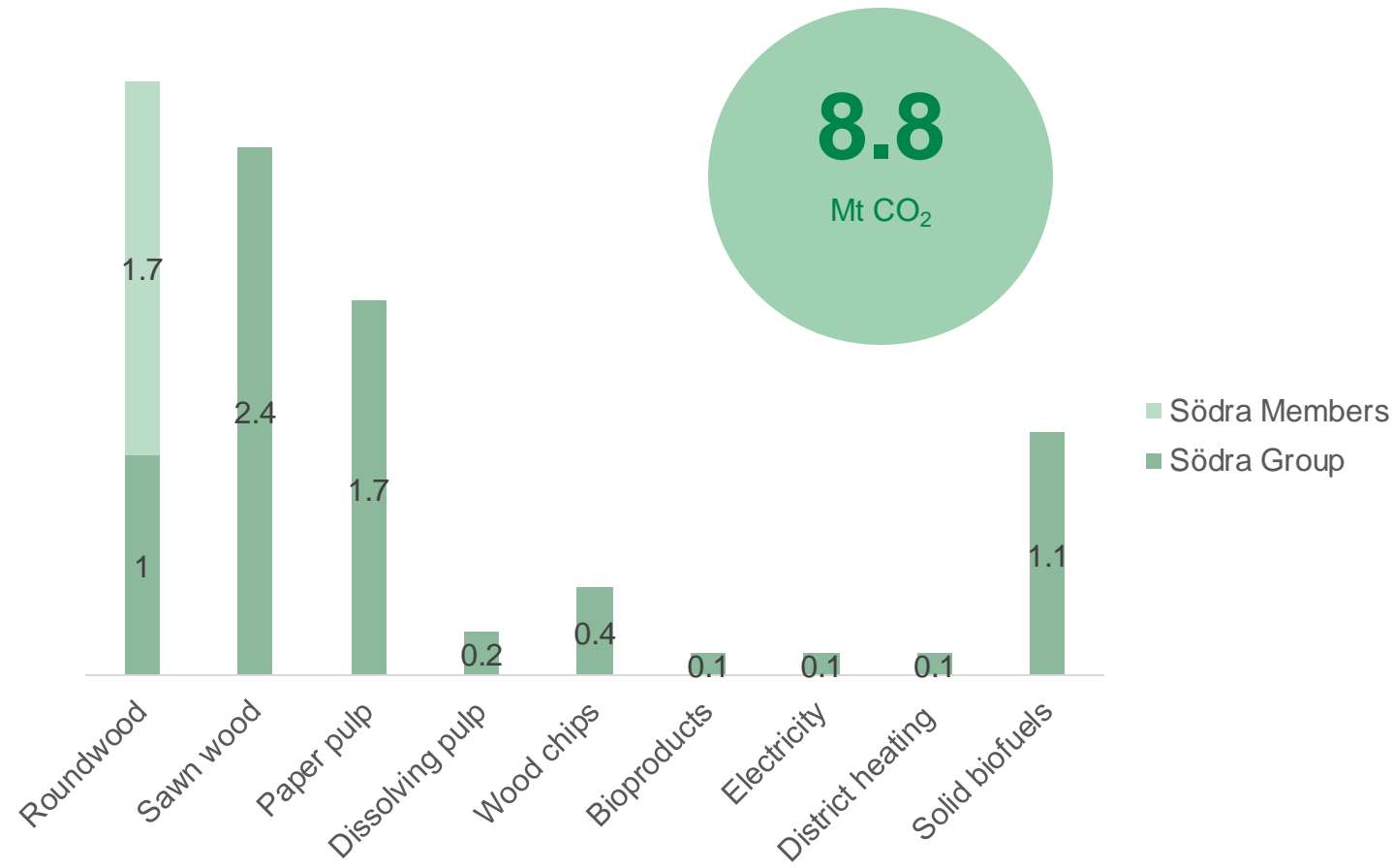
# Value chain emissions

- Scope 1 – direct emissions (92 ktonnes)
- Scope 2 – indirect energy emissions (3 ktonnes)
- Scope 3 – other indirect emissions (2 245 ktonnes)

Scope 3 GHG emissions in 2023



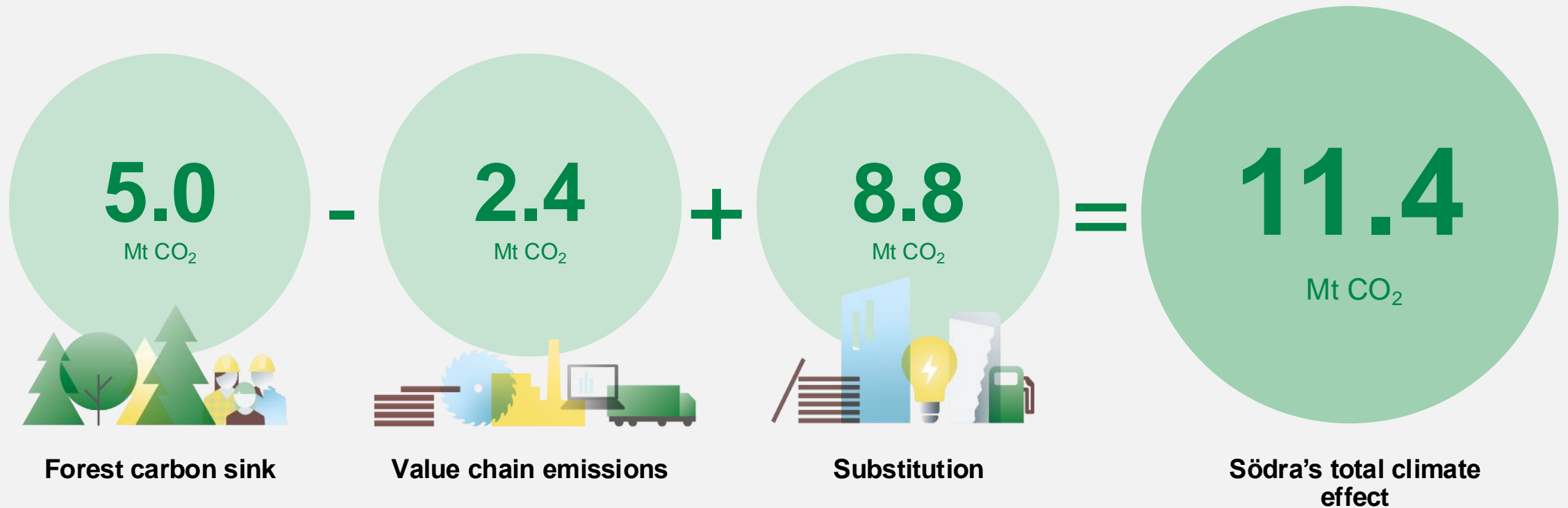
# Fossil emission displacement through substitution



Product category	Substitution factor, tonne C per tonne C
Roundwood	0.5
Sawn wood	1.5
Paper pulp	0.7
Dissolving pulp	1.0
Wood chips	0.9
Bioproducts and energy products	0.7



# Södra's climate effect





# Future development for Södra

- The ongoing standardisation and harmonisation of the model is important for both credibility and transparency
- Södra will develop the calculations with regards to harvested wood products, higher resolution on displacement factors and forest carbon calculations
- The model is important for Södra to show the full climate impact of forestry

