
Biofuel production as advanced biorefineries
Henrik Brodin – Head of Energy Transition
SÖDRA

Södra in figures (2024)

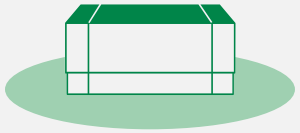
2,8	Members' forests: million hectars	**52,000**	members
29	Sales: SEK billion	**3,300**	employees
03	pulp mills	**18**	Wood volume: million m^3 sub
08	sawmills		

We create value from the forest

Forest

Processing

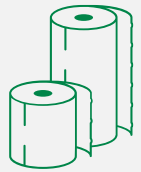
Sawn timber



Pulp

Biofuels

End products



Paper products

Textiles

Electricity

District heating

Biofuels

Houses

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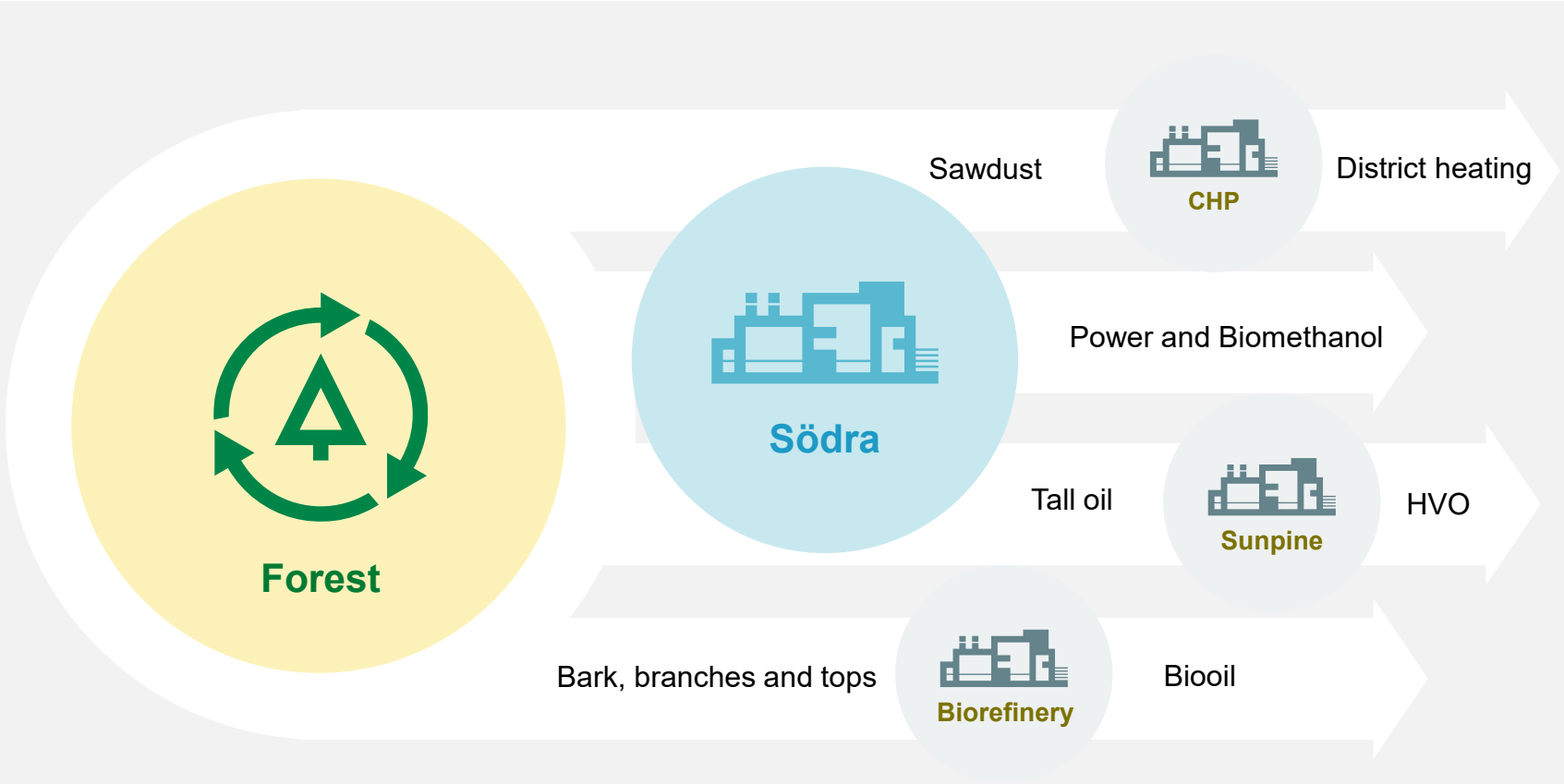
Bioenergy – A crucial part of efficient forestry



Södra's residues is used to

Heating to
265 000 houses
(Every third house in Southern Sweden)

Power to
375 000 BEV cars
(three times the demand in Sweden)

Tall oil diesel to
40 000 cars
(30 000 ton tall oil diesel)

Petrol to
5 000 cars
(5 500 ton methanol)

Diesel to
400 000 cars
(300 000 ton bio oil)*

* = Future potential

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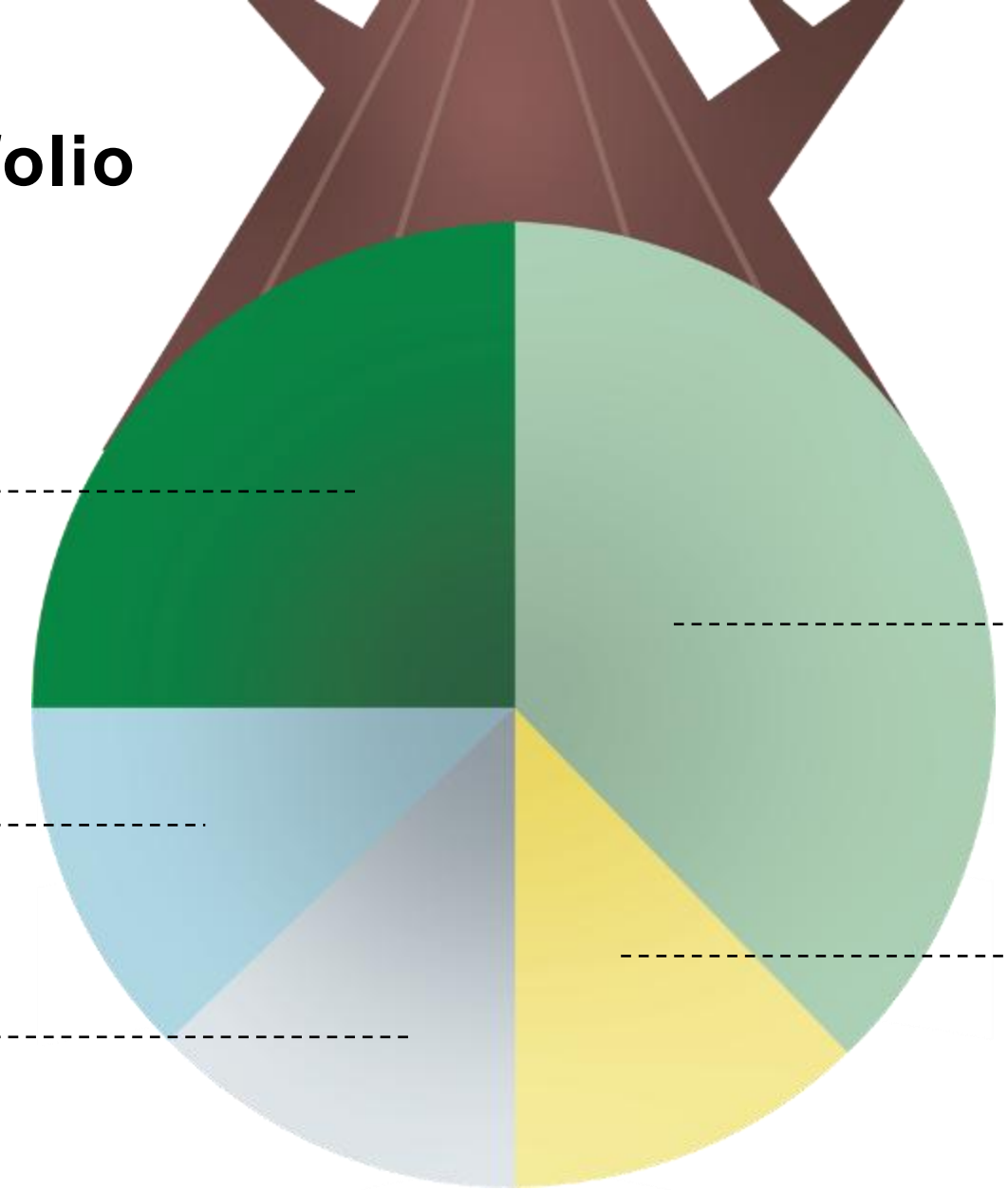
Our future portfolio



Sawn timber

Pulp

Carbon

Engineered Wood Products

Energy & chemicals

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Biorefineries by Sodra

Lignin project

- 2 billion SEK investment
- 300 million SEK of public funding (Swedish Energy agency/EU)
- Expected to be in operation 2027
- Largest commercial kraft lignin plant in the world
- Andritz chosen as supplier

ANDRITZ to supply world's largest lignin production system to Södra pulp mill in Sweden

2024/07/03

Swedish forest industry group Södra has selected international technology group ANDRITZ to supply a complete solution for kraft lignin production to its Mönsterås pulp mill in Sweden.

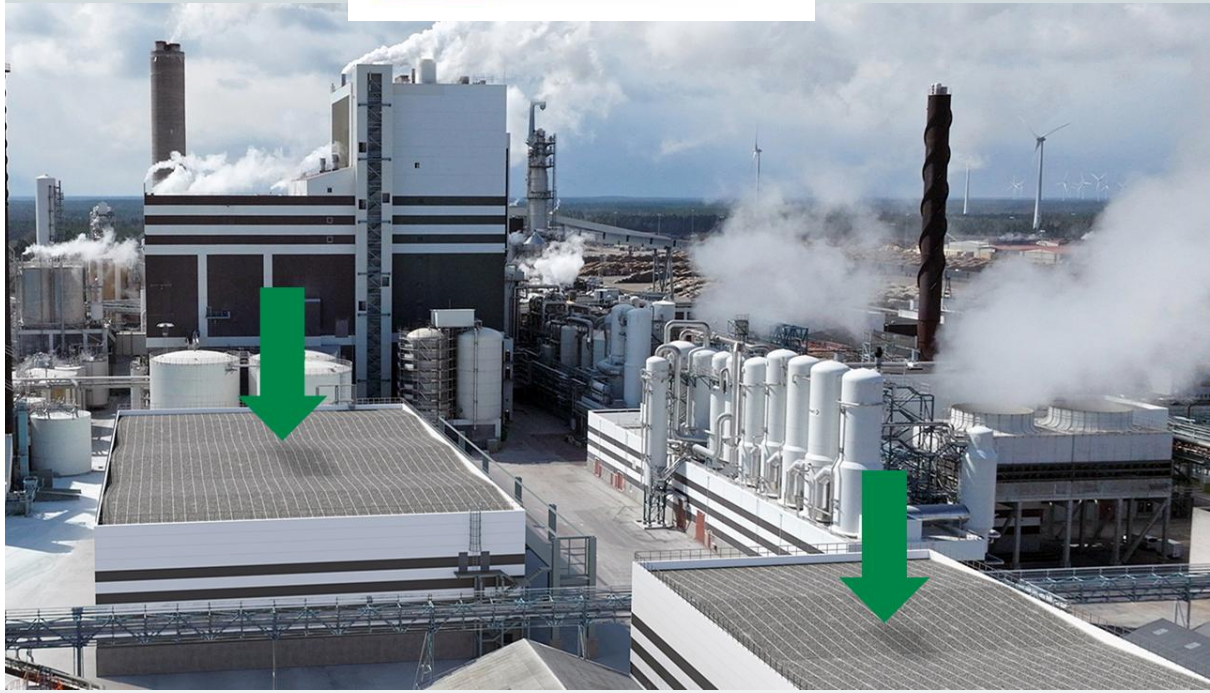
This major investment marks Södra's entry into the lignin market as part of its strategy to make the most of the wood used in pulp production. This will be the first commercial kraft lignin plant in Sweden and the largest in the world.

Bild av hur den framtida anläggningen i Mönsterås kommer att se ut.
Bild: Södra

Södra satsar 2 miljarder - Vill bli störst i världen

Energimyndigheten

Finansieras av Europeiska unionen
NextGenerationEU



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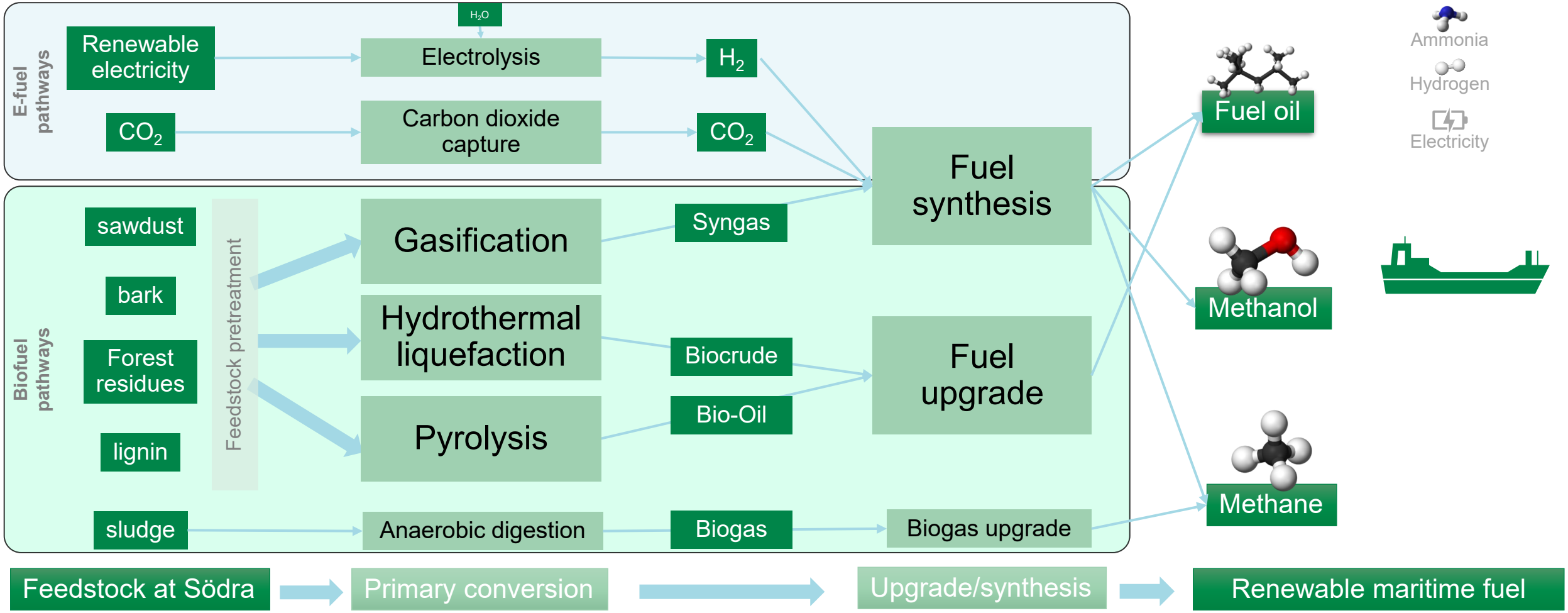
Renewable maritime fuel pathways from foresty industry



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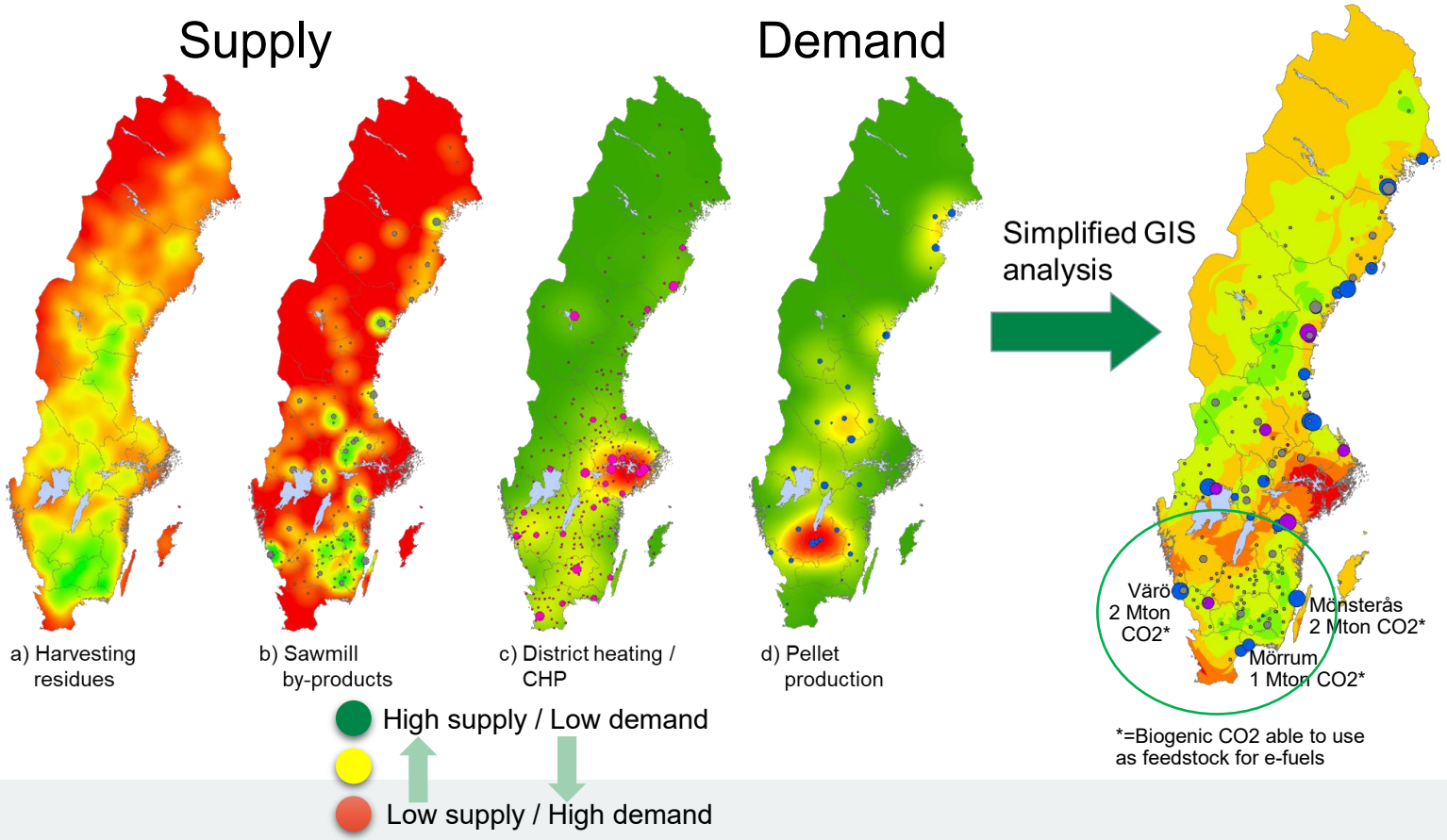
The feedstock availability for advanced biofuels in Södra region



Södra Solid biomass

External deliveries

- 2 TWh forestry residues
- 2 TWh industrial biproducts

Internal usage

- 1,5 TWh industrial biproducts

Potentials

Biofuels

- 1 TWh gives 100 000 tons biomethanol

E-fuels

- 1 Mton CO2 gives 650 kton e-methanol and requires 7,3 TWh electricity

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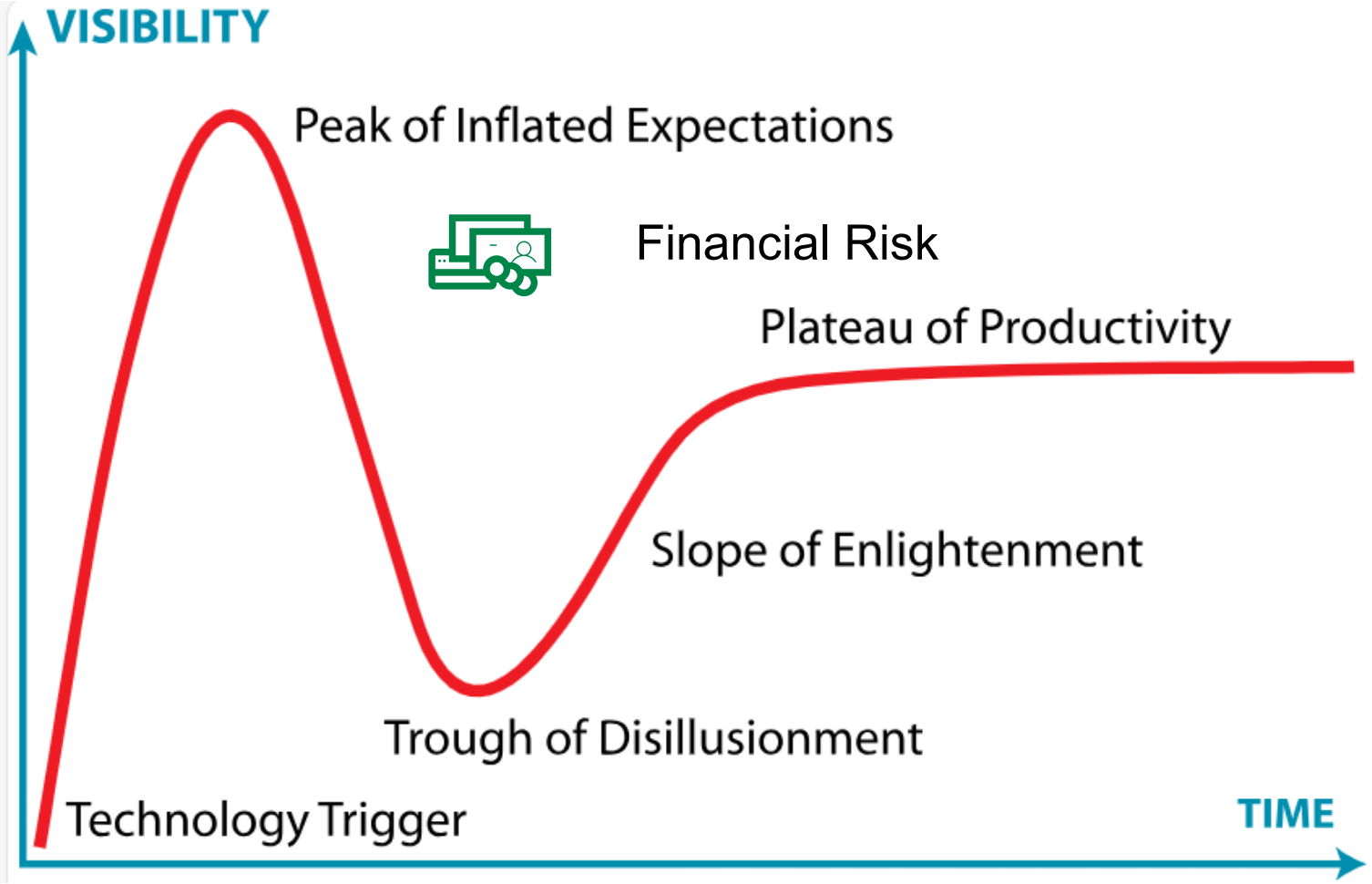
Why are we not investing?



- Project Risk
- Technology Risk
- Market Risk
- Policy Risk
- Feedstock Risk
- Power supply Risk
- Project on Project Risk
- Permitting Risk

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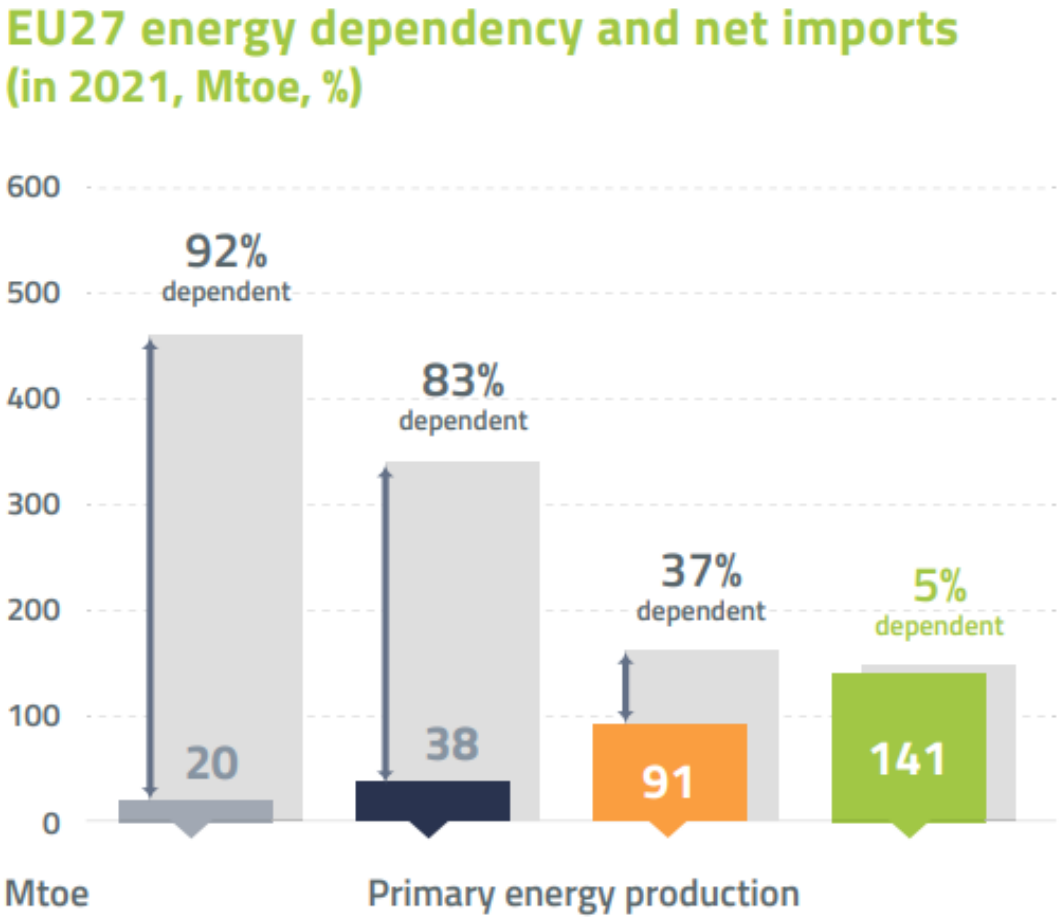
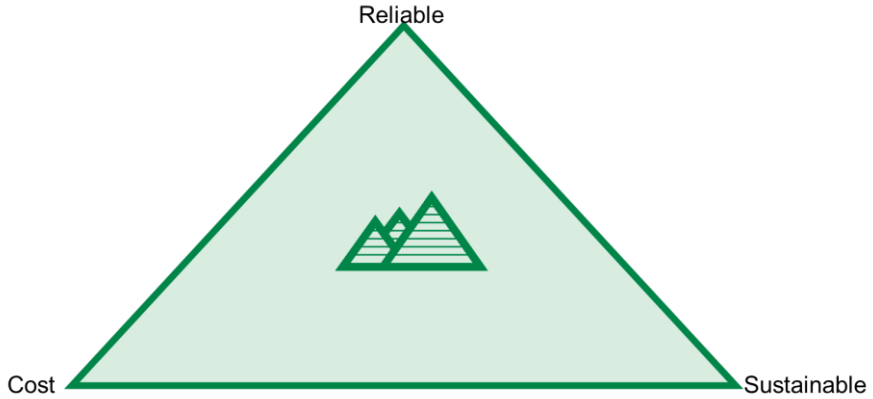
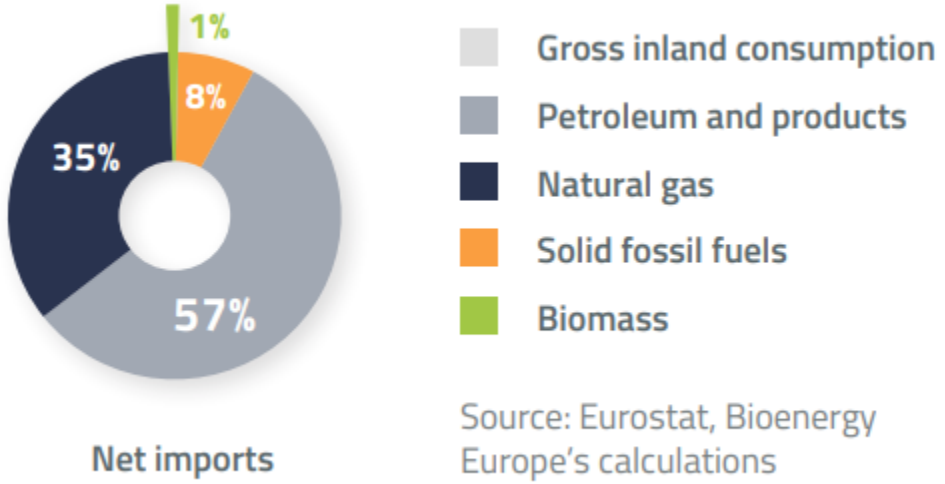
What's in it for Europe?







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“We don’t know today how forest products will be used in the future. Make sure you don’t stand empty handed when that day comes.”
Gösta Edström
Södra’s founder, 1938