

Disclaimer



It should be noted that Stora Enso and its business are exposed to various risks and uncertainties and certain statements herein which are not historical facts, including, without limitation those regarding expectations for market growth and developments; expectations for growth and profitability; and statements preceded by "believes", "expects", "anticipates", "foresees", or similar expressions, are forward-looking statements. Since these statements are based on current plans, estimates and projections, they involve risks and uncertainties which may cause actual results to materially differ from those expressed in such forward-looking statements. Such factors include, but are not limited to: (1) operating factors such as continued success of manufacturing activities and the achievement of efficiencies therein, continued success of product development, acceptance of new products or services by the group's targeted customers, success of the existing and future collaboration arrangements, changes in business strategy or development plans or targets, changes in the degree of protection created by the group's patents and other intellectual property rights, the availability of capital on acceptable terms: (2) industry conditions, such as strength of product demand, intensity of competition, prevailing and future global market prices for the group's products and the pricing pressures thereto, price fluctuations in raw materials, financial condition of the customers and the competitors of the group, the potential introduction of competing products and technologies by competitors; and (3) general economic conditions, such as rates of economic growth in the group's principal geographic markets or fluctuations in exchange and interest rates. All statements are based on management's best assumptions and beliefs in light of the information currently available to it and Stora Enso assumes no obligation to publicly update or revise any forward-looking statement except to the extent legally required.

2 THE RENEWABLE MATERIALS COMPANY



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Stora Enso in brief



Stora Enso is one of the largest private forest owners in the world, and a leading provider of renewable products in packaging, biomaterials and wooden construction



Stora Enso shares are listed on NASDAQ OMX Helsinki and Stockholm and traded in the USA as ADRs and Ordinary Shares.

Sales €9.4 billion in 2023



Operational EBIT €342 million in 2023



~20,000 employees



Market cap: ~€10 billion

Our foundation for a renewable future and sustainable business



Foundation







Key strategic growth areas







Leading market positions in all divisions



Forest

One of the largest private forest owners in the world

Traditional Wood Products

Sawn wood #1 in Europe

Pulp

Fluff pulp #1 in Europe

Consumer board

LPB #1 Globally

FSB #1 in Europe

FBB #3 in Europe

CUK #1 in Europe

SBS #2 in Europe

Containerboard

Kraftliner #3 in Europe

SC fluting #3 in Europe

Recycled

containerboard* #8 in

Europe

Packaging solutions

Corrugated boxes top three in Nordics

Corrugated boxes top two in Benelux

Building Solutions

CLT #1 Globally

Capacities by division



THE RENEWABLE MATERIALS COMPANY

Division	Capacity 1,000 t
Packaging Materials	
Consumer Board	3,520
Containerboard	1,820
Barrier coating	655
Paper*	740
Packaging Solutions	1,855 Mm2
Wood Products	
Sawing	5.1 Mm3
Further processing	2.2 Mm3
Building Solutions	495 m3**
Pellets	460

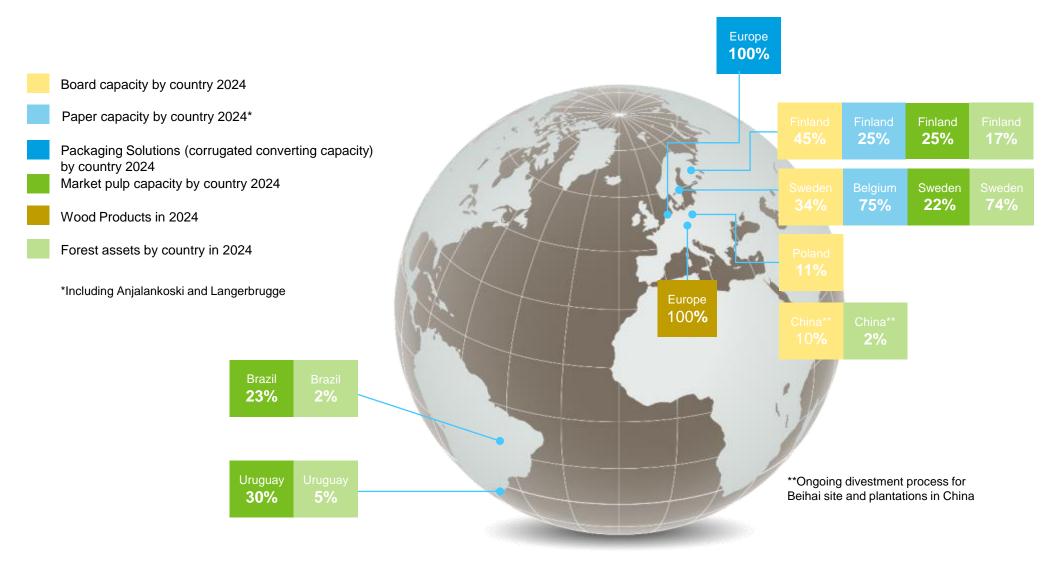
Division	Capacity 1,000 t
Biomaterials	
Softwood and fluff pulp	1,175
Hardwood pulp	1,325
Group forest assets	
Total area	2.0m ha
Productive area	1.6m ha

Investor kit Q4 2023

^{*}One of the two paper machines (250kt) in Anjalankoski was closed in Q4 2023, Ostroleka PM4 was permanently closed in Q3

Global capacity and forest asset distribution

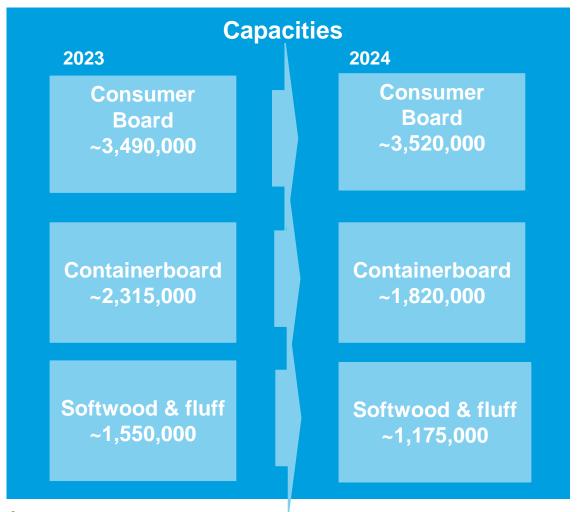


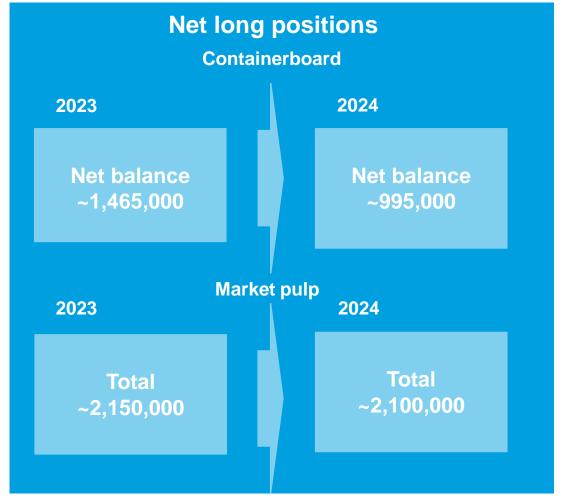


Investor kit Q4 2023

Changes in capacities and long positions 2023-2024

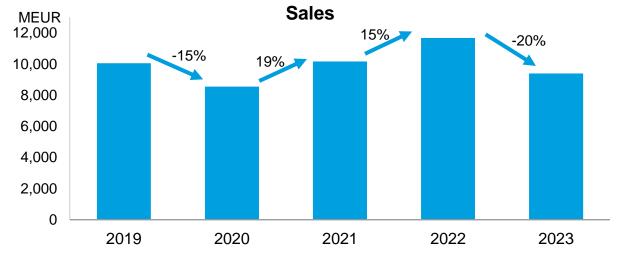


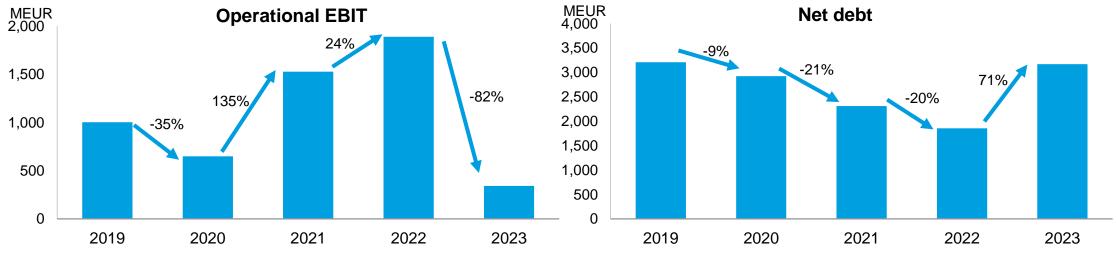




Group financial performance annually

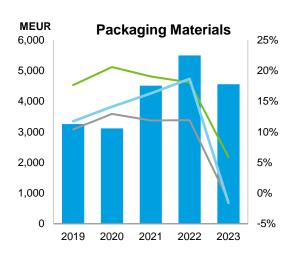


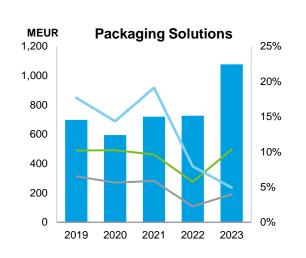


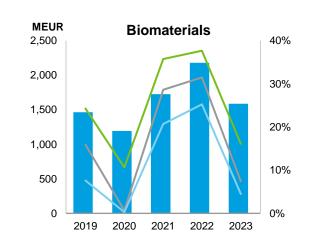


Annual financial performance by division

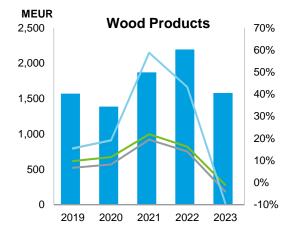


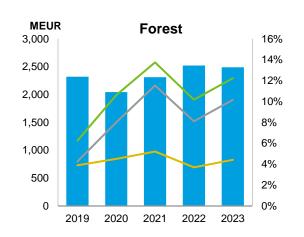






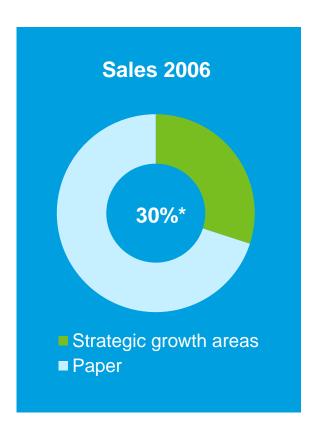


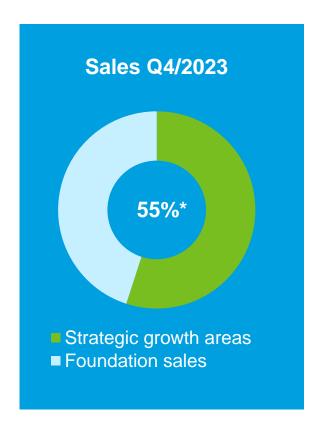


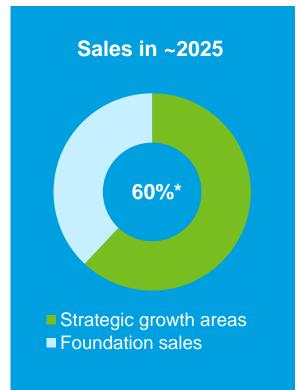


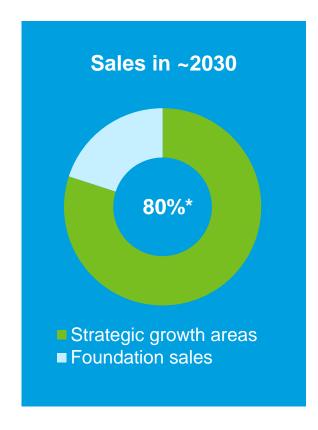
Strategic growth areas represented 55% of Group sales in Q4/2023





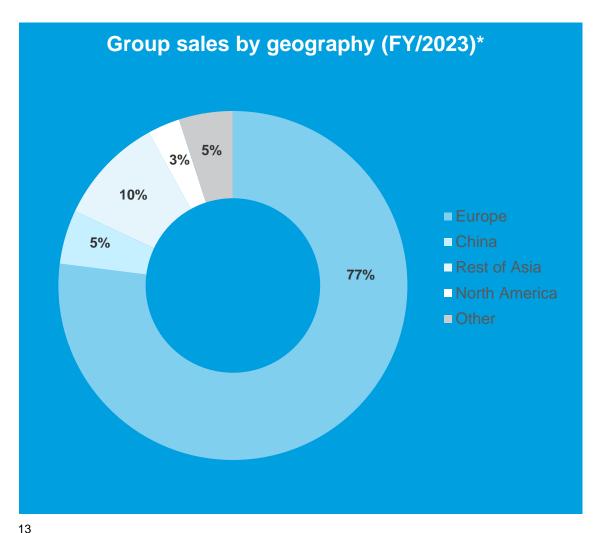


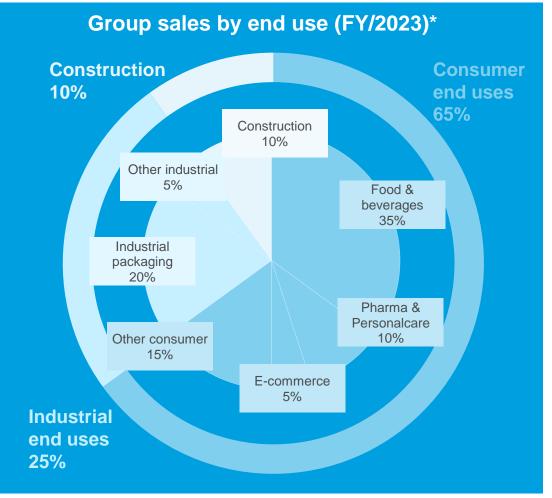




Stora Enso – End use segments and geographies





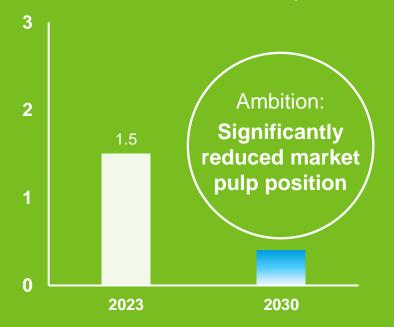


Ambition to significantly reduce earnings cyclicality and long market pulp position



- Exiting paper business
- Growth in packaging with increased integration of eucalyptus pulp
- Developing a more value-add pulp product mix
- Growing the share of building solutions

Group net standard* pulp position for the next twelve months (million tonnes)



We make a positive climate impact



Our value chain emissions

6.5 million tonnes of CO₂

Our forests remove carbon

-4.4

million tonnes of CO₂

Our carbon products store

-2.5

million tonnes of CO₂

Our products substitute fossil-based products save

-13.4

million tonnes of CO₂

Our sustainability performance

Committed to reaching net-zero CO2 emissions by 2040 through signing The Climate Pledge



Targets (CO2)

-50%

reduction in absolute emissions by 2030 (Scope 1,2,3)



100%

Recyclable products by 2030



Net positive

Impact on biodiversity by 2050





-41%

(Q4 2023 compared to the base year 2019)

-34%

(2023 compared to the base year 2019)



94%

(2023)



Target to reach 100% compliance by indicator*

Stora Enso ~2030 ambition*



+30% sales

vs 2021 (excl. inflation)

15% operational EBIT margin over a cycle

Packaging >60% of sales

Wood Products

>40% of sales from Building solutions

+75% operational EBITDA over a cycle**

Earnings cyclicality reduced by half**

No paper exposure

Significantly reduced market pulp exposure

New revenue streams

1 BEUR sales

from Biomaterials innovation

5-10 TWh

of wind power on own forest land

^{*}The above 2030 ambition should not be considered as targets or guidance for 2030

^{**}Compared to 2016-2021. Measured as standard deviation over a cycle

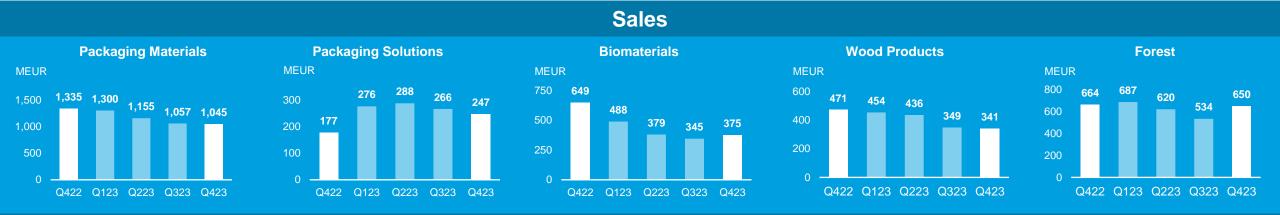


Divisions

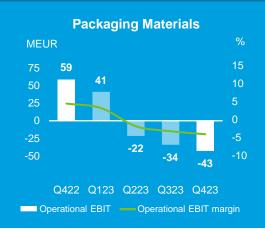
Investor kit Q4 2023

Division overview (sales, opEBIT and opEBIT margin)

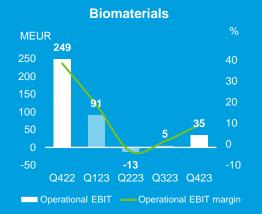




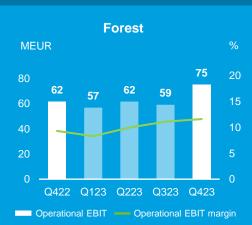
Operational EBIT and Operational EBIT Margin













Packaging Materials division in brief





- Aims to lead the development of circular packaging, providing premium packaging materials based on virgin and recycled fiber
- Helping customers to replace fossil-based materials with low-carbon, renewable and recyclable alternatives for their food and drink, pharmaceutical or transport packaging
- World-class cost-competitive integrated production sites close to raw material sources
- Main products: consumer board, containerboard and barrier coatings
- The customers are converters, brand owners and retailers

Packaging Solutions in brief





- Develops and sells premium fiber-based packaging products and services
- Innovation collaboration throughout the whole value chain for developing renewable packaging materials
- High-end, eco-friendly packaging products which are used by leading brands across multiple market sectors, including the retail, e-commerce and industrial sectors
- The portfolio includes converting corrugated board and cartonboard
- Operations in Northern, Central and Western Europe as well as in China

We have the broadest portfolio in the industry





Leading market positions in Europe and global reach



- Top 10 largest global supplier of packaging board
- Premium products and services for demanding end uses
- Kraftliner and SC fluting global premium niche
- Corrugated packaging market fragmented
- Capacity increases through organic and acquisitive growth

Consumer board

Stora Enso's market position

- LPB #1 Globally
- FSB #1 in Europe
- FBB #3 in Europe
- CUK #1 in Europe
- SBS #2 in Europe

Containerboard

- Kraftliner #3 in Europe
- SC fluting #3 in Europe
- Recycled containerboard* #8 in Europe

Packaging solutions

- Corrugated boxes top three in Nordics
- Corrugated boxes top two in Benelux

Integration benefits in core regions



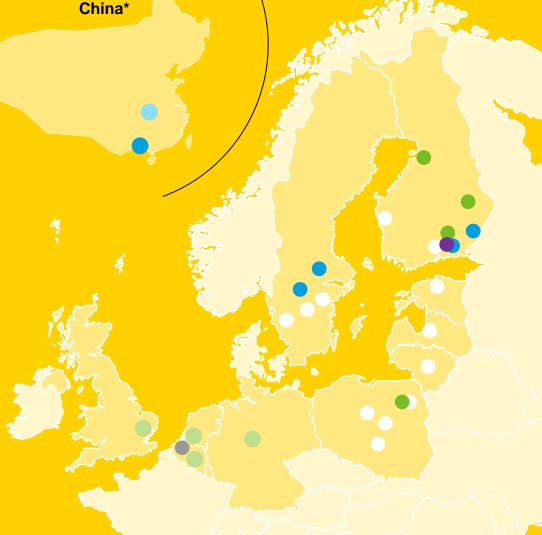
Nordics and Baltics

- Premium carton and liquid packaging board
- Virgin fiber containerboard and converting
- Megasites for economies of scale and integration benefits
- Smaller production sites with niche product concepts
- Optimising product mix

Eastern and Western Europe

- Recycled containerboard and converting in Poland
- Beverage carton recycling in Poland
- Potential to use more containerboard internally





^{*}Ongoing divestment process for Beihai site and plantations in China

^{**}One of the two paper machines (250kt) in Anjalankoski was closed in Q4 2023

Construction of a new consumer board line at the Oulu site proceeding according to plan

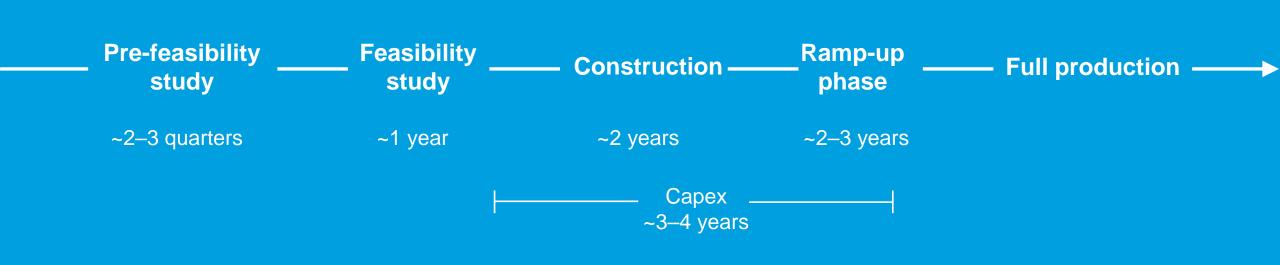


- Investing ~€1bn in 2022 2025 to convert the second idle paper machine at our Oulu site in Finland
- Production estimated to start early 2025
- Starting consumer board line for folding box board and coated unbleached kraft to a total capacity of 750,000 tonnes/y
- Expected annual sales ~€800m
- Reducing earnings volatility by lowering the Group's market pulp exposure by ~250,000 tonnes/y
- Target end-use segments: food and drink, frozen and chilled, mainly in Europe and North America



Planning and implementation of growth projects





We are committed to reduce our long position in containerboard





SC Fluting capacity 300,000

Kraftliner capacity 855,000

Group net balance position in containerboard for 2024

Total containerboard capacity 1,685,000*

Internal consumption** 425,000

External purchases** 265,000

Net balance ~995,000

^{*}Excluding Ostroleka sack and wrapping paper capacity of 130,000 tonnes

^{**}Based on rolling 12 months estimate

Packaging ~2030 ambition



>60% sales increase

vs 2021

EBIT >2x vs 2021

Highest industry margins

Fully integrated board capacity with internal pulp

Leader in sustainable packaging design and innovation

50% carbon footprint reduction

100% recyclable products (technically)

Full adoption of Circular Design Guidelines (2025)

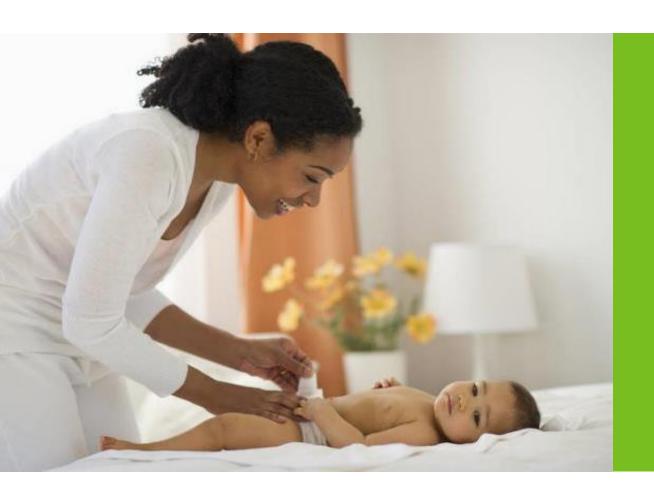


Biomaterials



Biomaterials division in brief



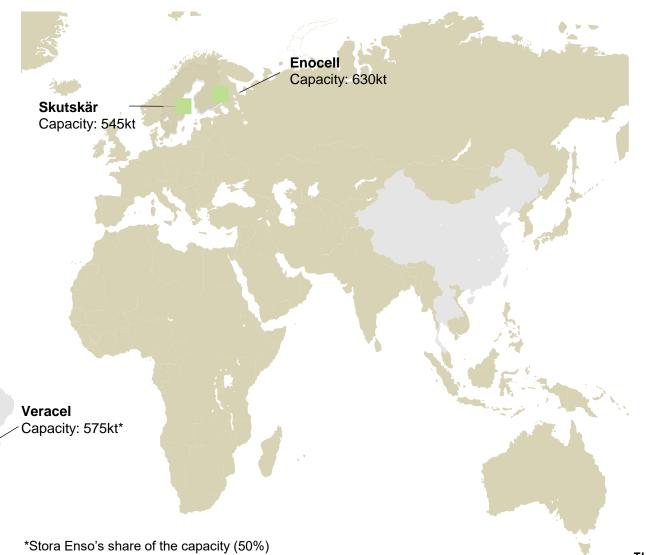


- Biomaterials division meets the growing demand for bio-based solutions to replace fossil-based and hazardous materials
- We use all fractions of biomass to develop new solutions
- Our pulp offering encompasses a wide variety of grades to meet the demands of board, paper, specialty paper, tissue and hygiene product producers, as well as materials from process side streams, such as tall oil and turpentine from biomass
- Our work to replace fossil-based materials includes novel applications such as Lignode and bio-based binders

Biomaterials worldwide



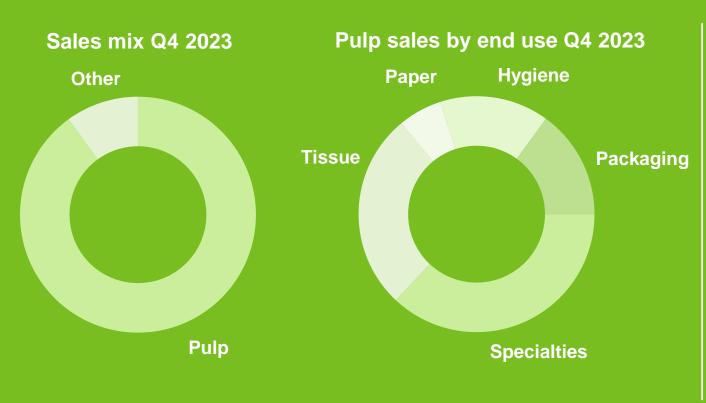
Grade	Capacity 1,000 t
Softwood and fluff pulp	1,175
Hardwood pulp	1,325
Total capacity	2,500



Montes del Plata Capacity: 750kt*

Our products and sales mix form the foundation for biomaterial innovation









Innovative biomaterials



Significant growth opportunity in biomaterials innovation



Market size	€10 billion	€20 billion
Long-term EBITDA margin potential	50%	40%
CAGR	+ -	
	Anode material +25-30% CAGR	Bio-binders +3-4% CAGR

Reducing carbon footprint with bio-based binders



High bonding strength and water resistance

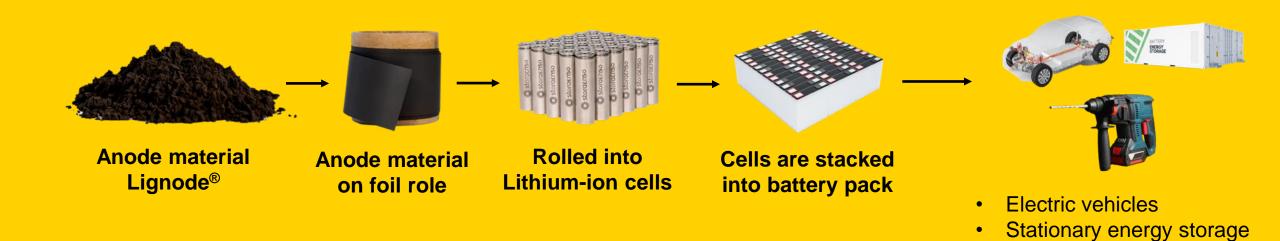
Replacing fossil-based chemicals

Market €20 billion Current share <1%



Lignode replaces non-renewable graphite in batteries





Other electric products

Higher performance and faster charging compared to pure graphite



Properties	100% Lignode	Lignode/graphite mixtures
Fast charging/ discharging	+ + +	+ +
Low temperature performance	+ + +	+ +
Cycling stability	+ + +	+ +
Energy density	- +	
Sustainability	+ + +	+



Partnering across the battery value-chain to make electrification more sustainable





We are accelerating the development and scale-up of Lignode with customers and partners





Biomaterials ~2030 ambition



€1bn sales in innovative biomaterials

Full scale-up of Lignode

50% carbon footprint reduction

Reduced market pulp position

Leadership in European fluff

Maintaining strong competitiveness



Wood Products division in brief

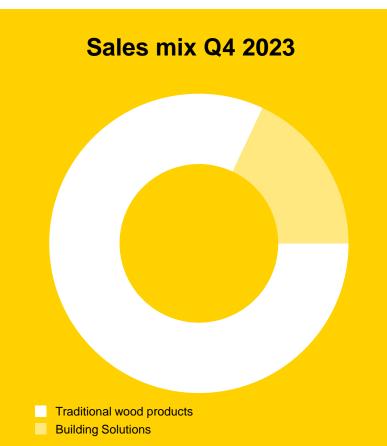




- Largest sawn wood producer in Europe and a leading provider of sustainable wood-based solutions for the construction industry globally
- The growing Building Solutions business offers building concepts to support low-carbon construction and eco-friendly designs
- Developing digital tools to simplify the design and construction of building projects with wood
- High demands with regard to safety, quality, design and sustainability
- The customers are mainly merchants and retailers, industrial integrators and construction companies

Our two strategic pillars enable financial stability and resilience





Traditional wood products









3-4% annual market growth rate long-term

Market size: >€100

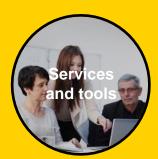
billion

Building Solutions









<10% annual market growth rate long-term

Market size: >€1 billion for wooden multi-storey buildings

Climate change can be mitigated with wood construction



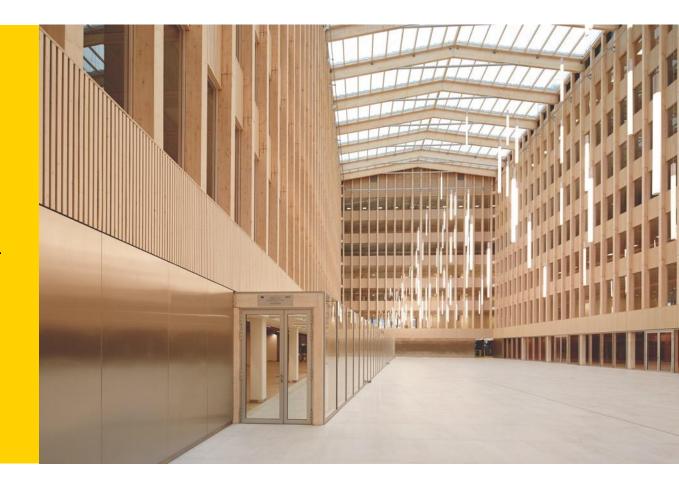
CO₂ savings for every m³ built with wood

vs. concrete

-1 tonne CO₂ -2.5 tonnes CO₂

vs. steel

We can significantly cut emissions in the construction sector by using renewable materials

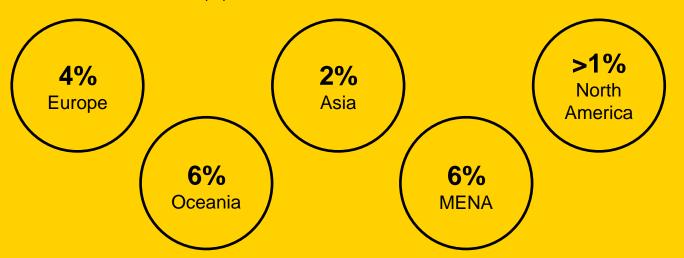


Our market position and sustainability megatrends support our profitable growth ambitions



Traditional wood products markets

Stora Enso's market share (%)



Stora Enso's global CLT market share 2023



Traditional wood products

- Largest supplier of sawn wood in Europe
- Global reach with ~40% sales in overseas markets

Building Solutions

- The world's largest CLT producer
- One of the leaders in LVL in the European market

Leading provider of wood-based building solutions

- Close to strategic European markets
- Industrial infrastructure
- Local supply of raw material

Annual capacity

• Sawing 5.1 million m³

Further processing 2.2 million m³

• CLT 410,000 m^{3*}

• LVL 85,000 m³

• Pellets 460,000 t

*CLT site (120,000 m3) in Ždírec, Czech Republic, in the rampup phase







Traditional wood products: we have improved our profitability and competitiveness for profitable growth



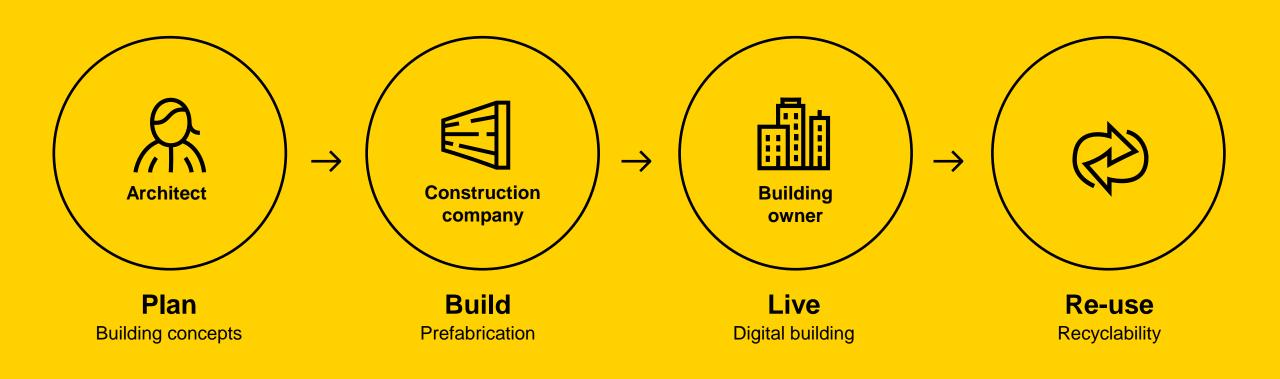
- Demand growth: megatrend for wooden buildings continues
- 2. Wood supply: competitive sourcing in Nordics and Central Europe
- 3. Efficiency: largest operational process efficiency programme completed with main improvements in safety, productivity and raw material efficiency
- Integration benefits: fiber supply for building solutions and packaging materials

Opportunity for profitable growth: capacity increase



Building Solutions: accelerated profitable growth with solutions across the building lifecycle





Prefabrication example: Fully-finished building elements to reduce manual, costly workload on the construction site









—— Commodity, off-the-self

Bespoke, delivered just in time -----

Wood Products ~2030 ambition



>40% sales increase*

+75% operational EBITDA over the cycle*

40% share of Building Solutions

~25 wind turbine towers delivered

50% scope 3 carbon footprint reduction

Efficient asset footprint



Forest division in brief





- The division creates value with sustainable forest management, competitive wood supply to Stora Enso's production units, and innovation
- Our forests are the foundation for Stora Enso's renewable offerings
- The division includes our Swedish forest assets and the 41% share of Tornator as well as wood supply operations in Finland, Sweden and the Baltics
- Stora Enso is one of the biggest private forest owners in the world

We create value through our forest assets



~36% self-sufficiency of wood supply from own forest assets and long-term agreements

Secure tactical flexibility through wood sourcing

Operate the largest wood sourcing organisation in the Baltic Sea region

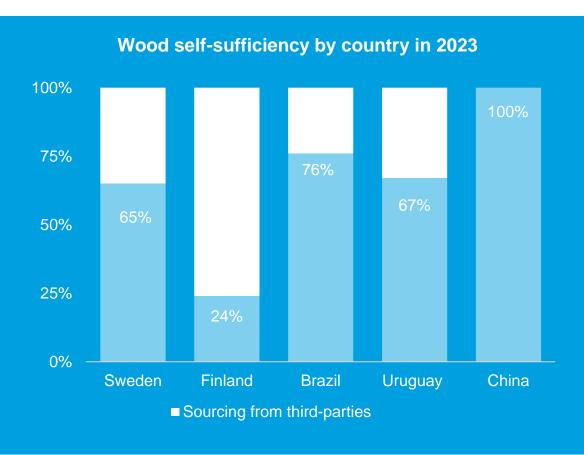
Increased harvesting to secure wood flows to Stora Enso sites

Fiber* ~30% of total Group costs



~36% self-sufficiency of wood supply from own forest assets and long-term agreements







The forest presents an endless source of value

- Supports a strong balance sheet with increasing value
- Lowers financial and strategic risks
- Foundation for development of sustainable forest management
- Supports our growth strategy through cost efficient wood flows and resource efficiency
- Advances our innovation and R&D work
- Potential for additional revenue streams in renewable energy production (solar and wind)



We hold our forest assets close to our production to ensure flexibility and a low carbon footprint



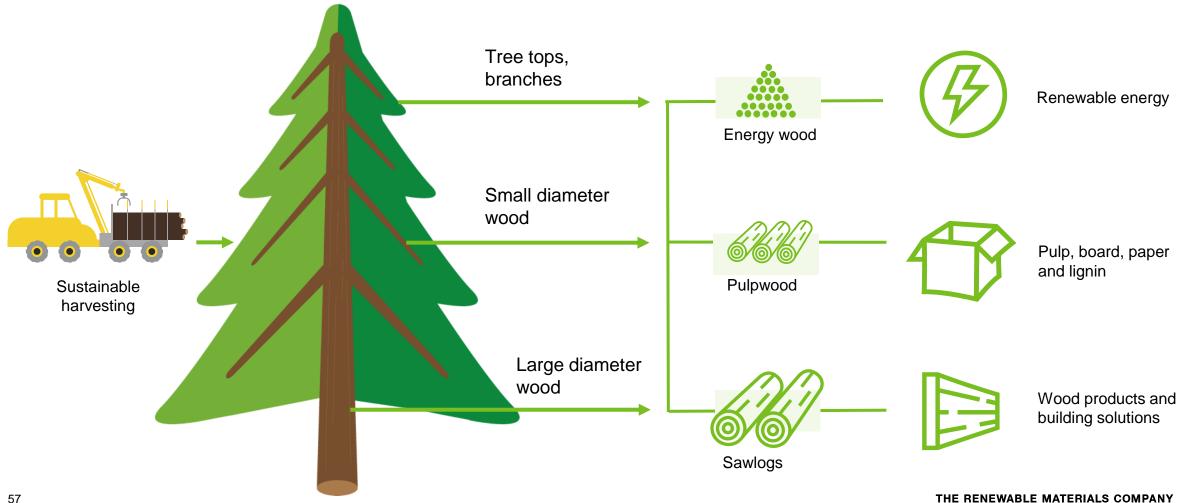
- Enables further control of our wood supply
- Establishes a resilience to changes in the market environment
- Secures availability and lowers wood costs for the Group
- Provides tactical flexibility in wood supply
- Minimises the logistical carbon footprint and lowers transportation cost

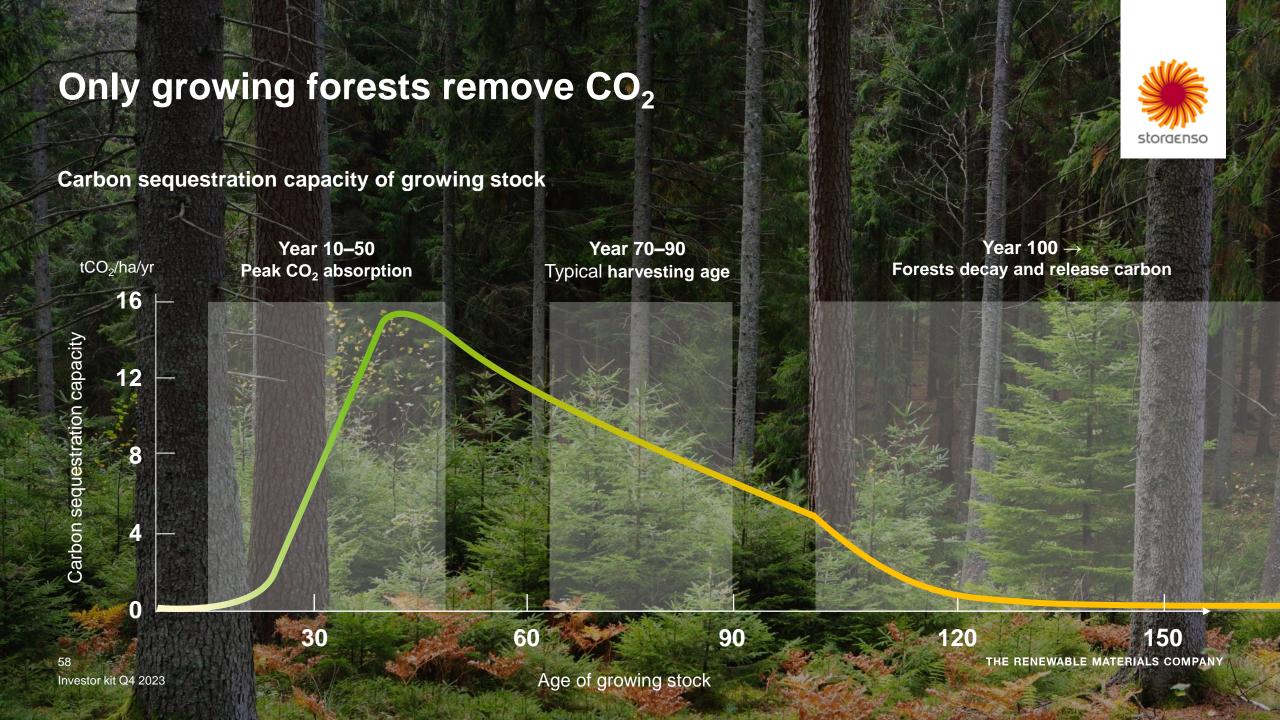


- Stora Enso forest areas in Sweden and Tornator forest areas in Finland
- Board, pulp and paper production sites
- Sawmills

We use all parts of each harvested tree ensuring optimal use







We are committed to step up our work to safeguard biodiversity

99%

of the lands we own or manage covered by forest certification schemes Sciencebased

indicators for landscapes, habitats and species

Netpositive

impact on biodiversity by 2050

THE RENEWABLE MATERIALS COMPANY

Precision forestry enables a more and efficient forest management



Active land management provides new revenue streams



Active landowner

Selected land sales

Land swaps to
optimise the land
holdings

Wind power

Land leasing
Expansion potential

Other revenue streams

Hunting licences and fishing rights Gravel sales

Future potential

Carbon credits
Solar power

THE RENEWABLE MATERIALS COMPANY

Unlocking wind power potential with strategic initiatives



Our ambition is to develop and significantly increase our involvement in wind energy on our land from the current 1 TWh

The total potential for wind power production on Stora Enso's forest land in Sweden is estimated at 75 TWh of which ~30% can be realised long-term

Our aim is to reach 5–10 TWh of wind power production, ramping up from 2030 onwards

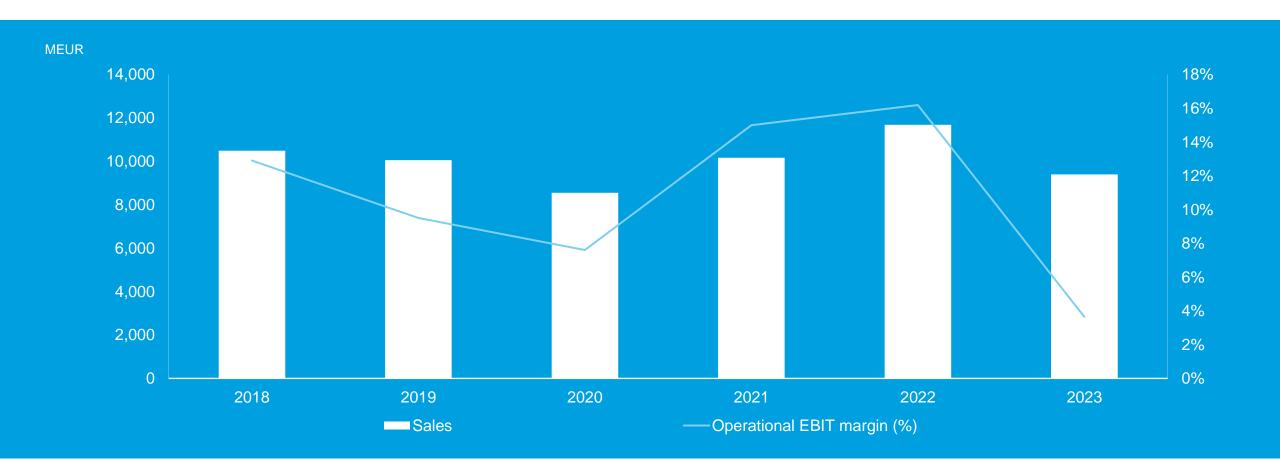
Our recent agreement with OX2 on a joint wind power development project of circa 1,000 MW is a step towards our ambition



Group's financial performance, dividend policy, ownership and top management

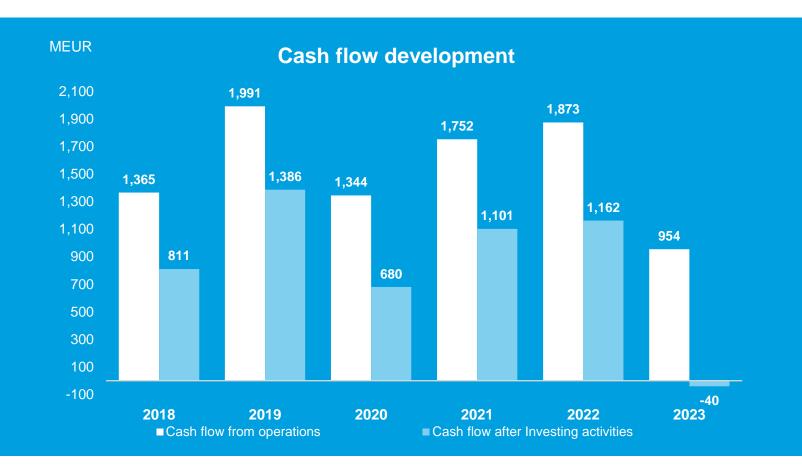
Sales and operational EBIT margin development





Cash flow over the cycles

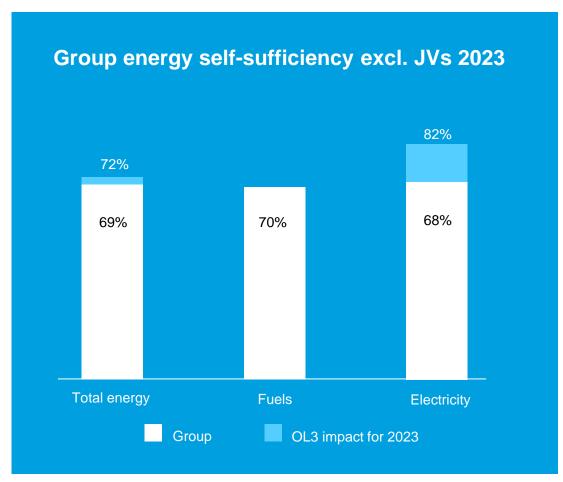


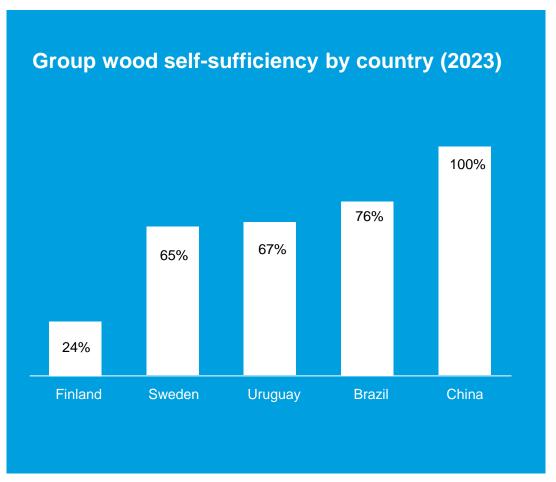


- Cash flow from operations decreased to €954 (€1,873) million in 2023
- Cash flow after investing activities was €-40
 (1,162) million in 2023

Stora Enso's energy self-sufficiency 72% FY/2023







We drive shareholder value trough a focused and disciplined capital allocation



Allocating capital for sustainable profitable growth







Organic growth

CAPEX at or below depreciation over the cycle

M&A

Selective M&A to support growth in both Packaging and Wood Products

Strong cash flow generation

Returning capital to shareholders

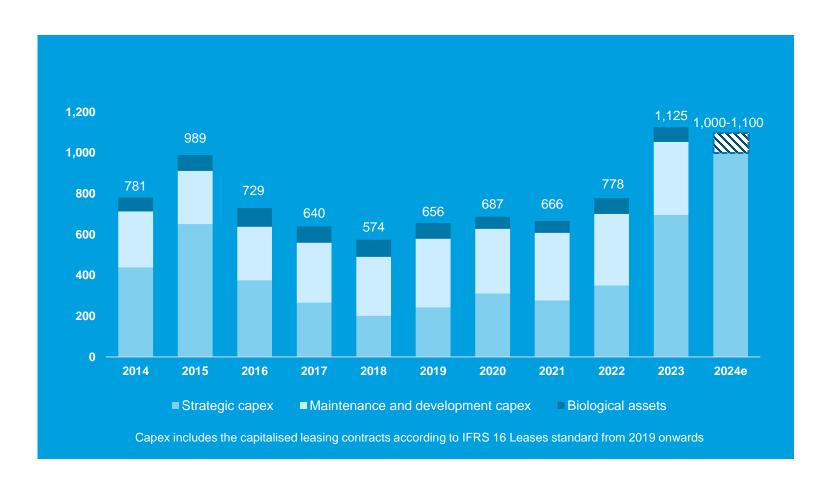


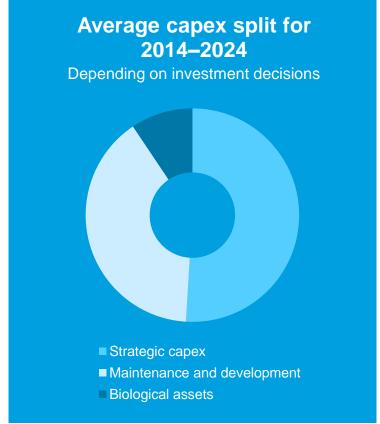
Dividends

To distribute 50% of EPS excluding fair valuation over the cycle

Committed growth investments proceeding as planned Returning to average capex range of €600-800 million after 2024

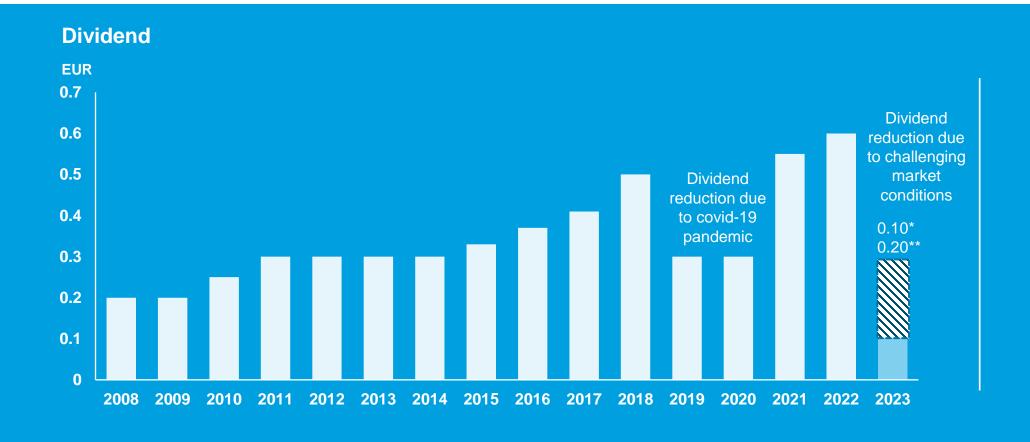






Dividend development





Target to distribute: 50% of EPS excluding fair valuation over the cycle

Cost structure in 2023





Maintaining a strong liquidity position

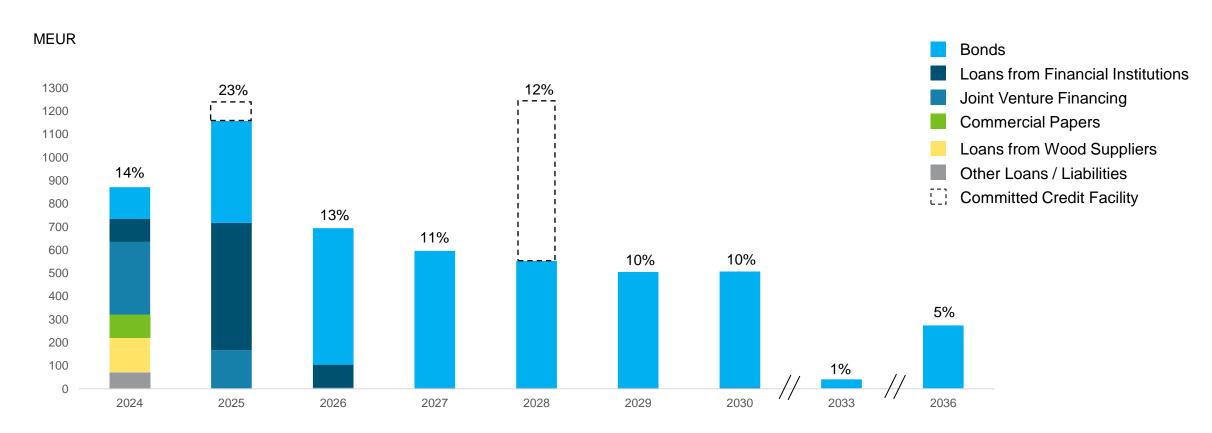




- Liquidity at the end of 2023:
 - €2.5 billion cash and cash equivalents
 - – €700 million committed revolving credit facility fully undrawn
 - €100 million committed credit facility fully undrawn
 - Additionally, €1.1 billion statutory pension premium loans available
- Net debt to operational EBITDA for the last 12 months at 3.2x and gearing at 29%
- No financial covenants
- Investment grades:
 - Fitch: BBB- (stable)
 - Moody's: Baa3 (stable) / P-3

Maturity profile 2023 December 2023





Ownership distribution at the end of Q4 2023



	% of shares	% of votes
Solidium Oy*	10.7%	27.3%
FAM AB	10.2%	27.3%
Social Insurance Institution of Finland (KELA)	3.0%	10.0%
Finnish institutions (excl. Solidium and KELA)	11.0%	8.1%
Swedish institutions (excl. FAM)	1.1%	0.9%
Finnish private shareholders	3.9%	2.4%
Swedish private shareholders	3.0%	2.2%
ADR holders	1.6%	0.5%
Under nominee names (non-Finnish/non-Swedish shareholders)	55.4%	21.3%

^{*} Entirely owned by the Finnish State

Major shareholders at the end of Q4 2023

By voting power	A share	R share	% of shares	% of votes
1 Solidium Oy*	62,655,036	21,792,540	10.7 %	27.3 %
2 FAM AB**	63,123,386	17,000,000	10.2 %	27.3 %
3 Social Insurance Institution of Finland	23,825,086	0	3.0 %	10.0 %
4 Ilmarinen Mutual Pension Insurance Company	4,159,992	15,290,638	2.5 %	2.4 %
5 Varma Mutual Pension Insurance Company	5,163,018	1,140,874	0.8 %	2.2 %
6 MP-Bolagen i Vetlanda AB**	4,885,000	1,000,000	0.7 %	2.1 %
7 Elo Mutual Pension Insurance Company	2,010,000	9,987,000	1.5 %	1.3 %
8 Bergslaget's Healthcare Foundation	626,269	1,609,483	0.3 %	0.3 %
9 The State Pension Fund	0	5,600,000	0.7 %	0.2 %
10 The Society of Swedish Literature in Finland	0	3,000,000	0.4 %	0.1 %
11 Avanza Pension Insurance	142,664	1,372,515	0.2 %	0.1 %
12 OP Finland Fund	0	2,549,753	0.3 %	0.1 %
13 Danske Invest Finnish Equity Fund	0	2,435,000	0.3 %	0.1 %
14 Unionen (Swedish trade union)	0	2,312,750	0.3 %	0.1 %
15 EVLI Finland Select Fund	0	1,940,000	0.2 %	0.1 %
16 Nordea Bank ABP	0	1,919,249	0.2 %	0.1 %
17 Nordea Pro Finland Fund	0	1,871,557	0.2 %	0.1 %
18 Investment Fund Seligson & Co OMX Helsinki 25	0	1,789,320	0.2 %	0.1 %
19 Veritas Pension Insurance	0	1,645,000	0.2 %	0.1 %
20 Investment Fund Aktia Capital	0	1,472,000	0.2 %	0.1 %
20 largest total *Entirely ow ned by the Finnish State. **As confirmed to Stora Enso.	166,590,451	95,727,679	33.3 %	74.2 %

List has been compiled by the company, based upon shareholder information from Euroclear Finland Oy and Euroclear Sweden AB share registers and a database managed by Citibank, N.A. (as the company's ADR agent bank). This information includes only direct registered holdings, thus certain holdings (which may be substantial) of ordinary shares and ADRs held in nominee or brokerage accounts can not be included. The list is therefore incomplete.



Sponsored ADR Programme



Stora Enso has a sponsored Level I ADR programme in the US. The ADRs and Ordinary Shares trade on the OTCQX® Best Market.

Symbols SEOAY, SEOFF, SEOJF

CUSIP 86210M106

Ratio 1 ADR : 1 Ordinary Shares

ADR depositary Citibank

Share price information www.citi.com/DR or www.otcqx.com

Contact information for Stora Enso ADR holders:

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Email: citibank@shareholders-online.com

Direct dial: (781) 575-4555

Group Leadership Team





President and CEO Hans Sohlström



CFO, Deputy CEO Seppo Parvi



Chief Strategy and Innovation Officer & Head of Sustainability Tobias Bäärnman



Packaging Solutions Ad Smit



Biomaterials Johanna Hagelberg



Legal Micaela Thorström



Packaging Materials Hannu Kasurinen



People and Culture & Head of Brand and Communication Katariina Kravi



Forest Per Lyrvall



Wood Products Lars Völkel

Board of Directors





Kari Jordan Chair



Håkan Buskhe Vice Chair



Elisabet Fleuriot



Astrid Hermann



Helena Hedblom



Antti Mäkinen



Christiane Kuehne



Richard Nilsson





Forest assets and fair valuation

Stora Enso's global forest assets' fair values and valuation methodology by region Group forest assets fair value at €8.7 billion or €11.00 per share in Q4 2023



All figures total forest assets including biological assets and forest land*

Group forest assets Biological assets: €6.1 billion Forest land*: €2.6 billion

99% certified wood from own forests

€503m

*including leased land

Sweden €6.3 billion

(Market transactionbased fair value) (Q4 23)

Montes del Plata (50%) (DCF) (Q4 23)

€1.4 billion (Market transactionbased fair value) (Q423)

Tornator (41%)

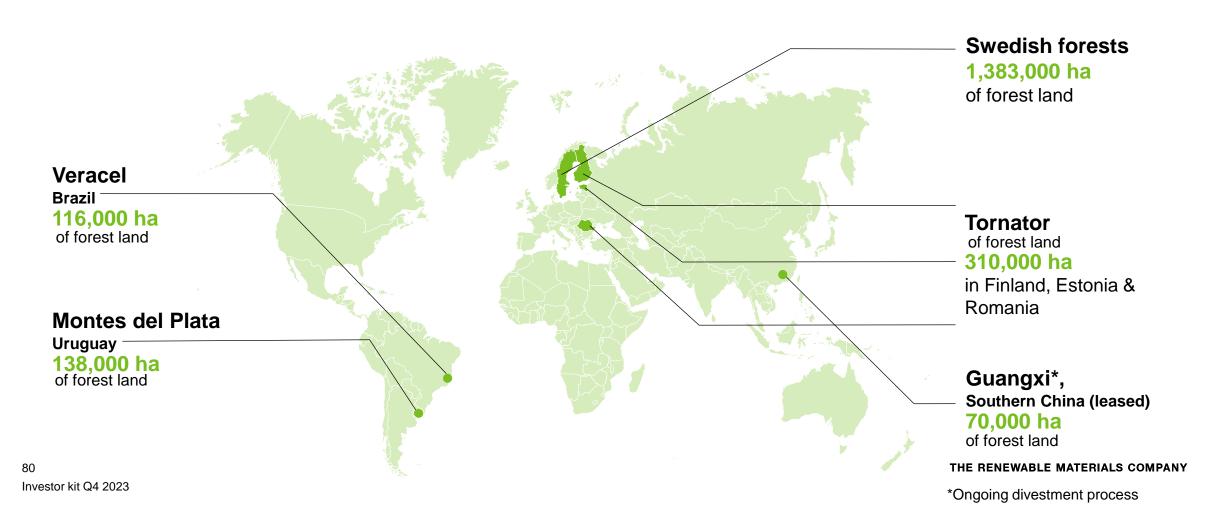
Veracel (50%) €158m (DCF) (Q4 23)

Guangxi €341m (DCF) (Q4 23)

We are a leader in sustainable forest management across one of the world's largest private forest estates



~36% self-sufficiency of wood supply from own forest assets and long-term agreements



Biannual market transaction-based fair valuation in Sweden and Finland

Plantations

Sweden

Tornator, Finland





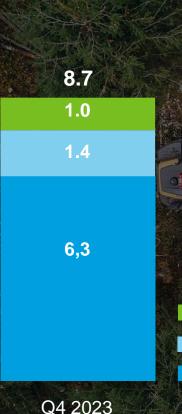
8.3

1.0

1.3

5.9

Q3 2023



Sweden and Finland

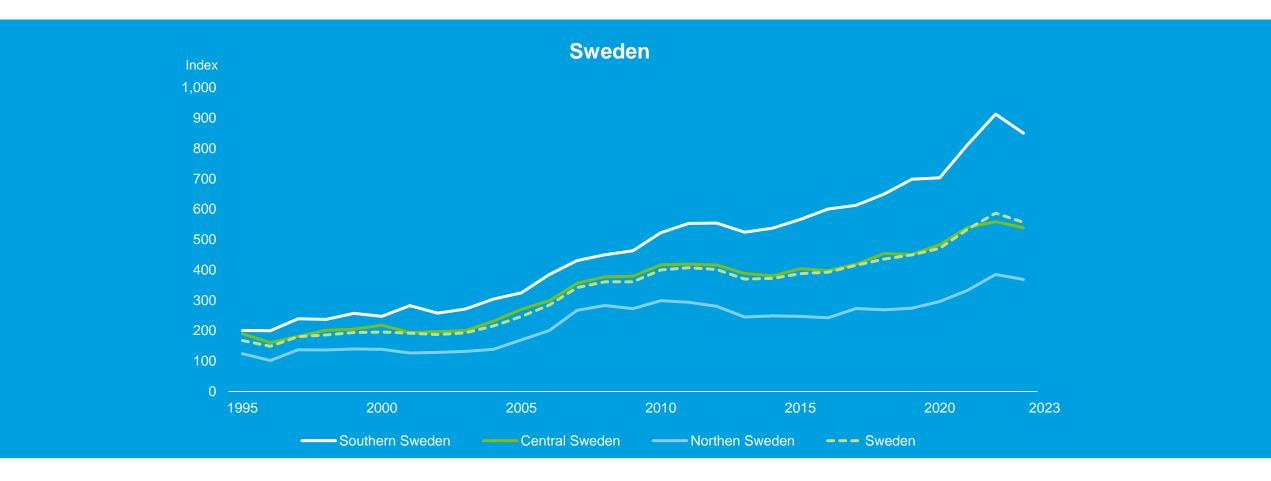
- Market transactions from our forest regions
- Volume weighted three year average transactions
- Standing stock and price data of the traded forest
- Biannual valuation process

Plantations

- DCF method
- Forest land at historical cost

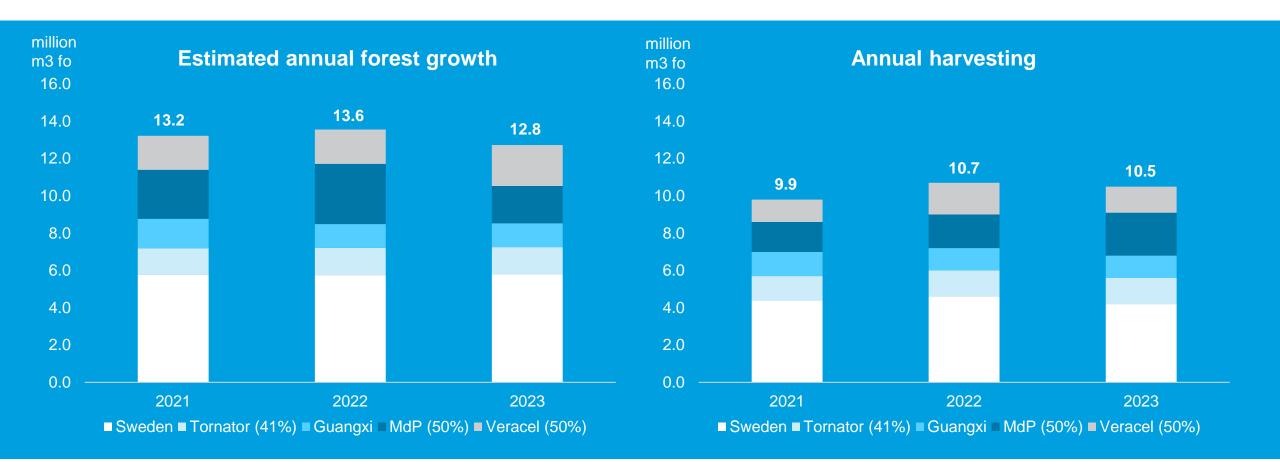
Forest property market transaction-based price development





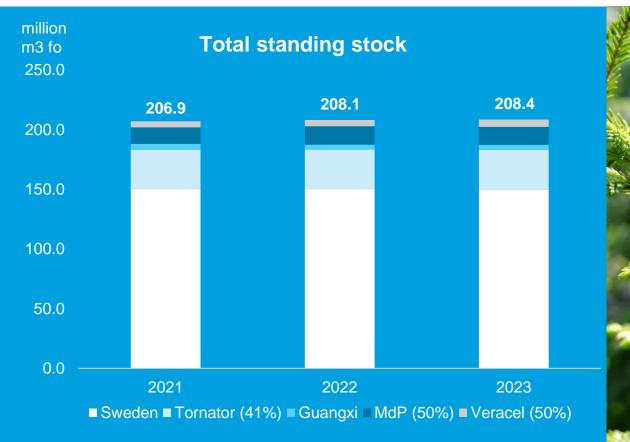
Annual harvesting represented 82% of the forest growth in 2023





Increasing standing forest stock



















THE RENEWABLE MATERIALS COMPANY