

Disclaimer



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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.

Sales €11.7 billion in 2022



Operational EBIT €1,891 million in 2022



~21,000 employees



Market cap: ~€ 9 billion

Our foundation for a renewable future and sustainable business



Foundation







Key strategic growth areas





Renewable biomaterials innovations

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 #2 in Europe

CUK #1 in Europe

SBS #1 in Europe

Containerboard

Kraftliner #4 in Europe

SC fluting #3 in Europe

Recycled

containerboard* #5 in

Eastern Europe

Packaging solutions

Corrugated boxes #1 in Nordics

Corrugated boxes top three in Benelux

Building Solutions

CLT #1 Globally

Biomaterials innovations

Kraft lignin #1 Globally

Capacities by division

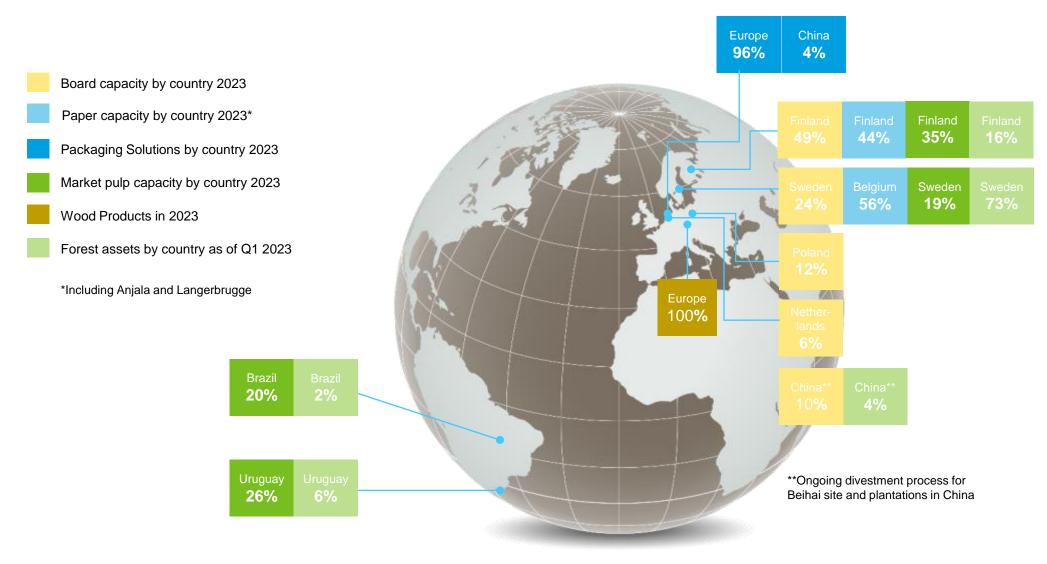


| Division | Capacity 1,000 t |
|---------------------|---------------------|
| Packaging Materials | |
| Consumer Board | 3,490 |
| Containerboard | 2,315 |
| Barrier coating | 655 |
| Paper* | 990 |
| Packaging Solutions | 1,775 Mm2 |
| Wood Products | |
| Sawing | 5.4 Mm3 |
| Further processing | 2.5 Mm3 |
| Building Solutions | 495 m3** |
| Pellets | 485 |

| Division | Capacity 1,000 t |
|-------------------------|---------------------|
| Biomaterials | |
| Softwood and fluff pulp | 1,550 |
| Hardwood pulp | 1,325 |
| Kraft lignin | 50 |
| Group forest assets | |
| Total area | 2.0m ha |
| Productive area | 1.6m ha |

Global capacity and forest asset distribution

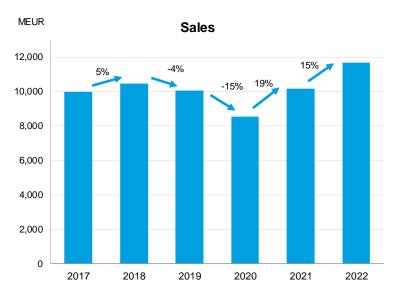




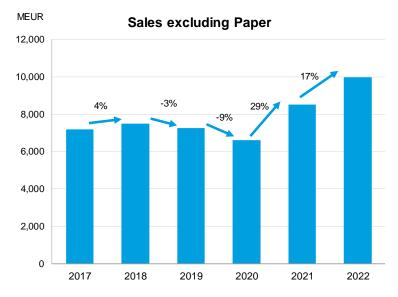
Investor kit Q1 2023

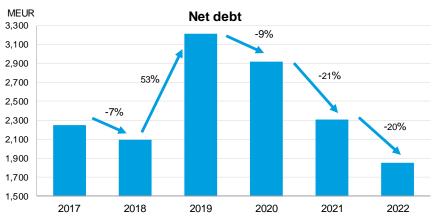
Group financial performance annually





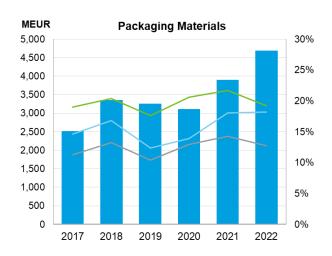


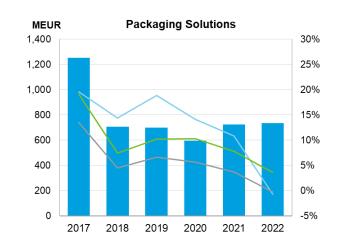


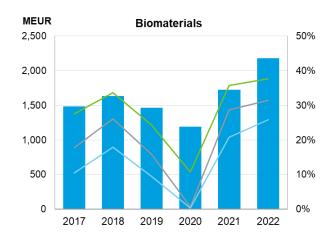


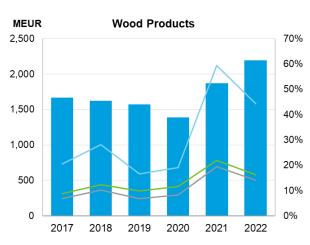
Annual financial performance by division

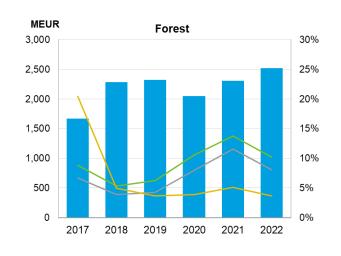


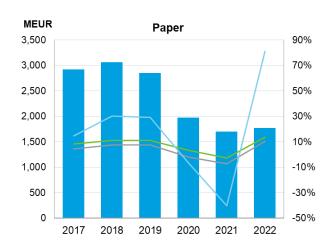


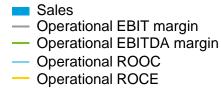






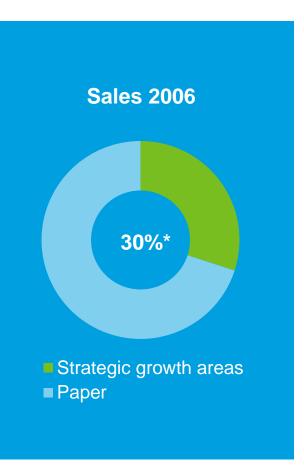


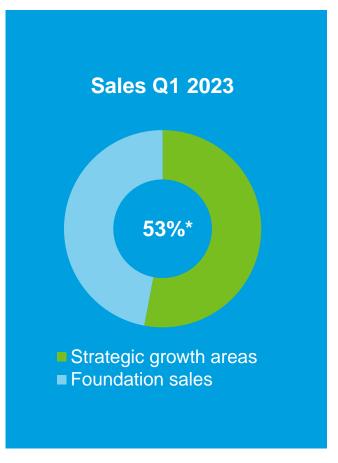


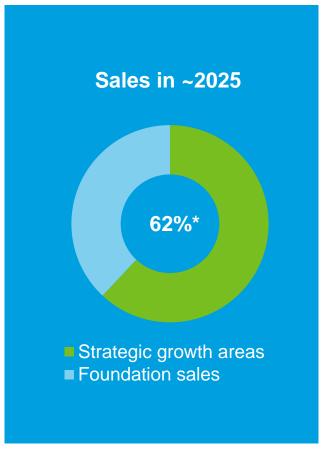


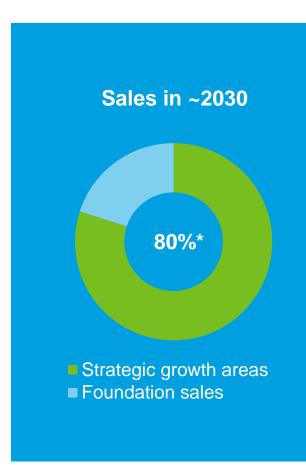
Targeting to generate 80% from strategic growth areas by 2030











^{*}Strategic growth areas include Packaging Materials, Packaging Solutions, Biomaterials Innovations (part of Biomaterials), Building Solutions (part of Wood Products) and New business (part of Segment Other) **Foundation businesses include Pulp in Biomaterials, Traditional Wood Products in Wood Products, Forest and Paper

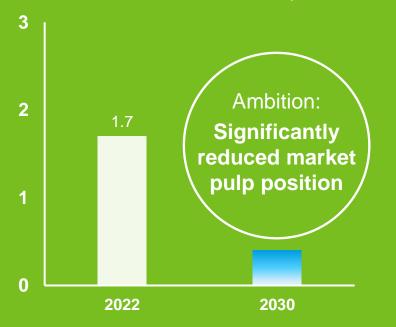
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Ambition to significantly reduce earnings cyclicality and long market pulp position



- 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

8.0 million tonnes of CO₂

Our forests remove carbon

-1.5

million tonnes of CO₂

Our carbon products store

-2.5

million tonnes of CO₂

Our products substitute fossil-based products save

-16.2

million tonnes of CO₂

Our sustainability performance



Targets



-50%

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

100%

Recyclable products by 2030

Net positive

Impact on biodiversity by 2050

Status



Scope

cope 3

-32%

(Q1 2023 compared to the base year 2019)

-27%

(2022 compared to the base year 2019)



94% (Q1 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

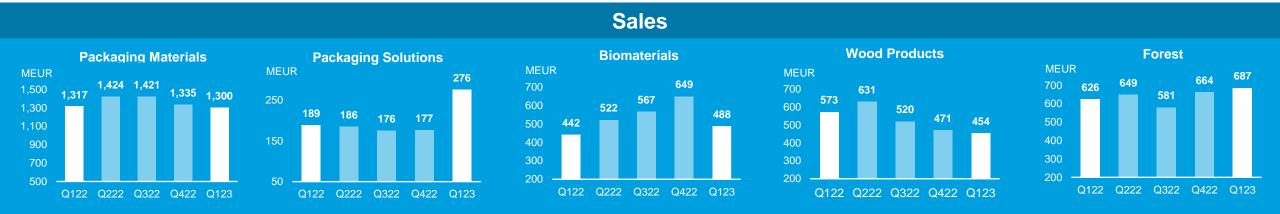


Divisions

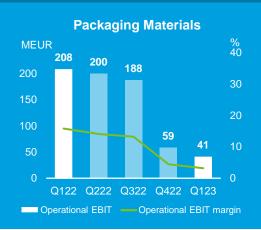
Investor kit Q1 2023

Key financial figures by division

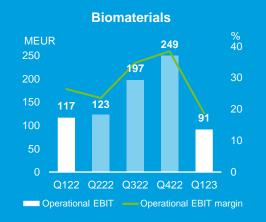


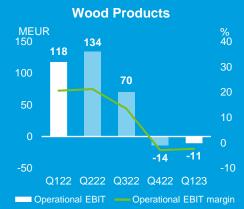


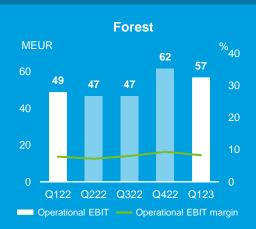
Operational EBIT and Operational EBIT Margin













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

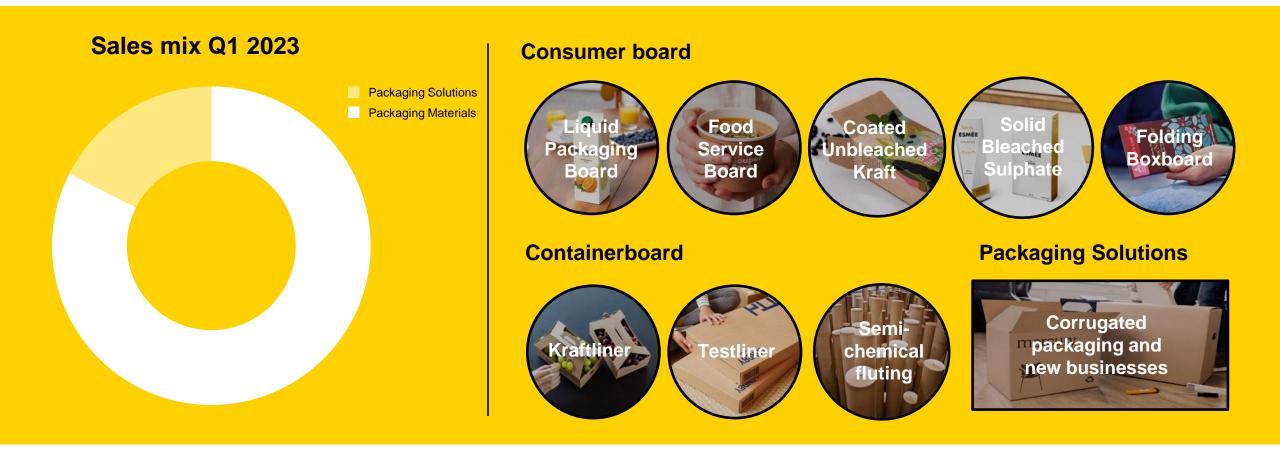




- Develops and sells premium fiber-based packaging products and services
- Innovation collaboration throughout the whole value chain for developing renewable packaging materials
- High-end, eco-friendly packaging products which are used by leading brands across multiple market sectors, including the 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 #2 in Europe
- CUK #1 in Europe
- SBS #1 in Europe

Containerboard

- Kraftliner #4 in Europe
- SC fluting #3 in Europe
- Recycled containerboard* #5 in Eastern Europe

Packaging solutions

- Corrugated boxes #1 in Nordics
- Corrugated boxes top three 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



China³



**One of the two paper machines (250kt) in Anjala to be closed in Q4 2023

Stronger European market presence in corrugated packaging through De Jong acquisition



Packaging
Solutions' sales
including De Jong
€276 million in Q1
2023

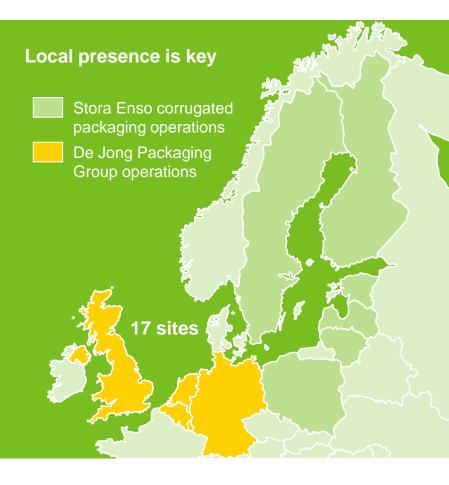
Packaging Solutions' capacity including De Jong 1,775 million square metre for 2023

€30 million

average annual synergies over the cycle after three years

€40 million

additional annual EBITDA impact by 2025 from ongoing expansions



Integration process proceeded according to plan in Q1 2023

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

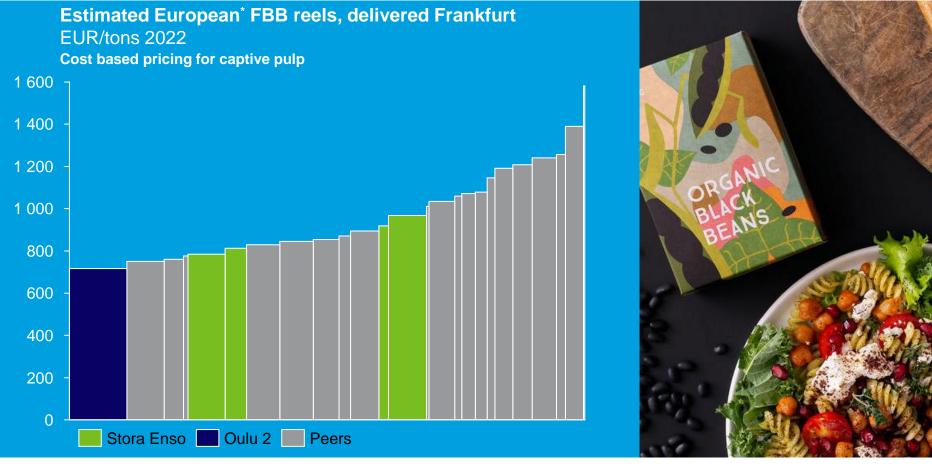


- Investing ~€1bn in 2022 2025 to convert the second idle paper machine at our Oulu site in Finland
- Production estimated to start early 2025
- Starting consumer board line for folding box board and coated unbleached kraft to a total capacity of 750,000 tonnes/y
- Expected annual sales ~€800m
- Reducing 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



Oulu 2 consumer board line expected to be lowest cash costs producer in Europe







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 2023

Total containerboard capacity 2,185,000*

Internal consumption** 440,000

External purchases** 280,000

Net balance ~1,465,000

^{*}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)

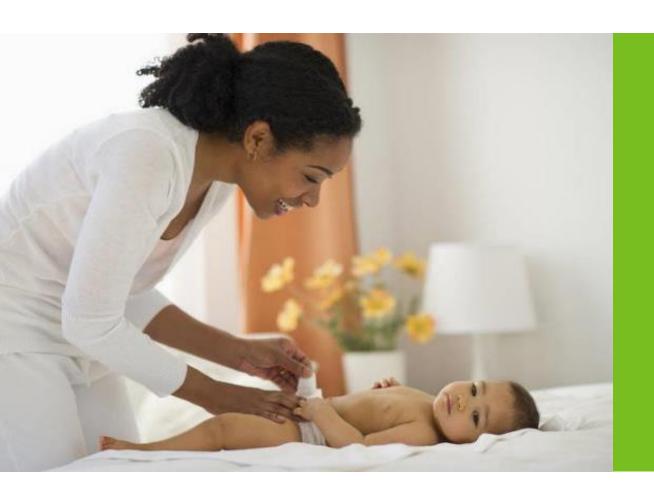


Biomaterials



Biomaterials division in brief



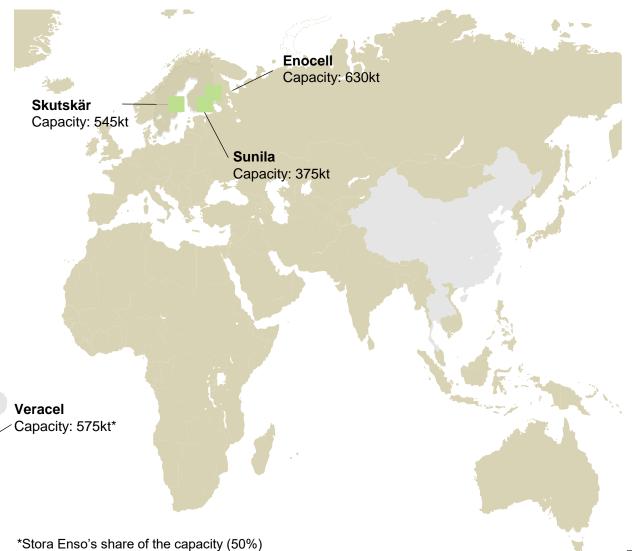


- Biomaterials division meets the growing demand for bio-based solutions to replace fossil-based and hazardous materials
- We use all fractions of biomass to develop new solutions
- Our pulp offering encompasses a wide variety of grades to meet the demands of board, paper, specialty paper, tissue and 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



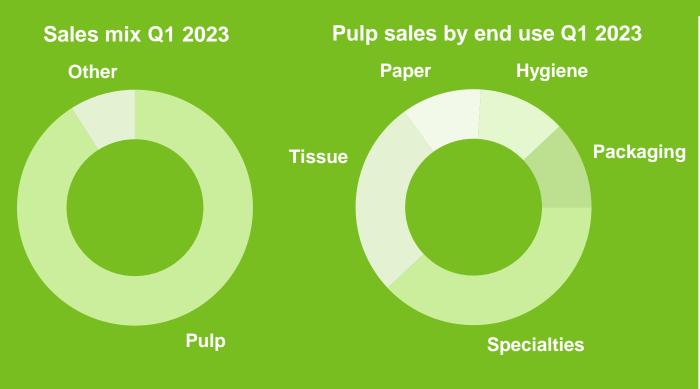
| Grade | Capacity 1,000 t |
|-------------------------|---------------------|
| Softwood and fluff pulp | 1,550 |
| Hardwood pulp | 1,325 |
| Total capacity | 2,875 |



Montes del Plata Capacity: 750kt*

Our products and sales mix form the foundation for biomaterial innovation







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

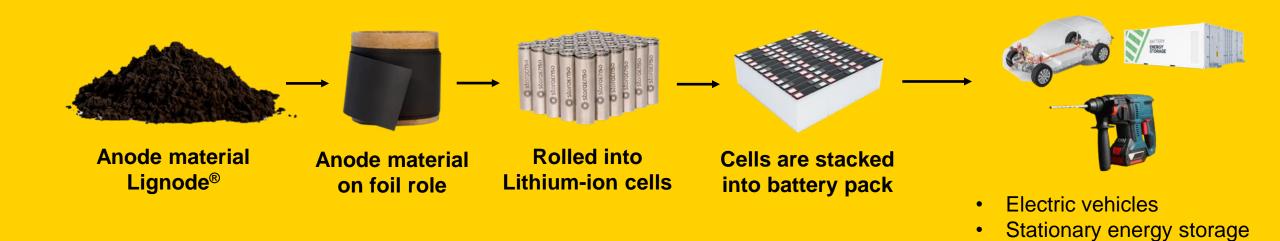
Replacing fossil-based chemicals

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

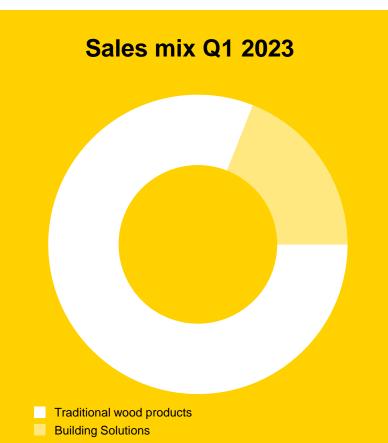




- Largest sawn wood producer in Europe and a leading provider of sustainable wood-based solutions for the construction industry globally
- The growing Building Solutions business offers building concepts to support low-carbon construction and eco-friendly designs
- Developing digital tools to simplify 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

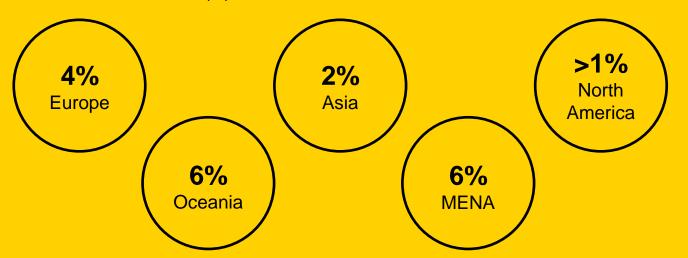


Our market position and sustainability megatrends support our profitable growth ambitions



Traditional wood products markets

Stora Enso's market share (%)



Stora Enso's global CLT market share 2022



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

storaenso

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

Annual capacity

• Sawing 5.4 million m³

Further processing 2.5 million m³

• CLT 410,000 m^{3*}

• LVL 85,000 m³

• Pellets 485,000 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



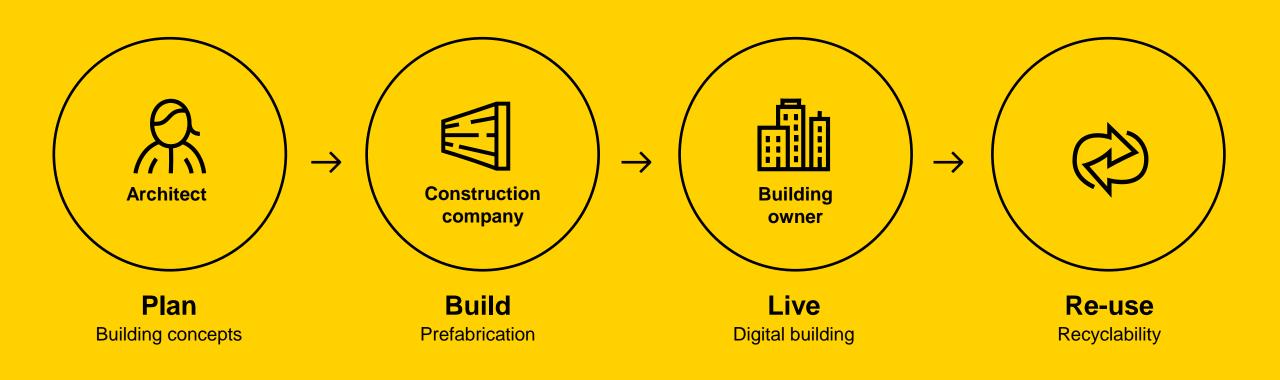
- Demand growth: megatrend for wooden buildings continues
- 2. Wood supply: competitive sourcing in Nordics and Central Europe
- 3. Efficiency: largest operational process efficiency programme completed with main improvements in safety, productivity and raw material efficiency
- Integration benefits: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



~30% 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

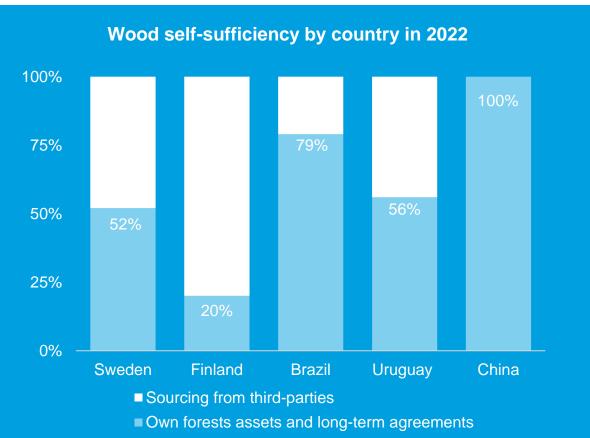
Increased harvesting to secure wood flows to Stora Enso sites

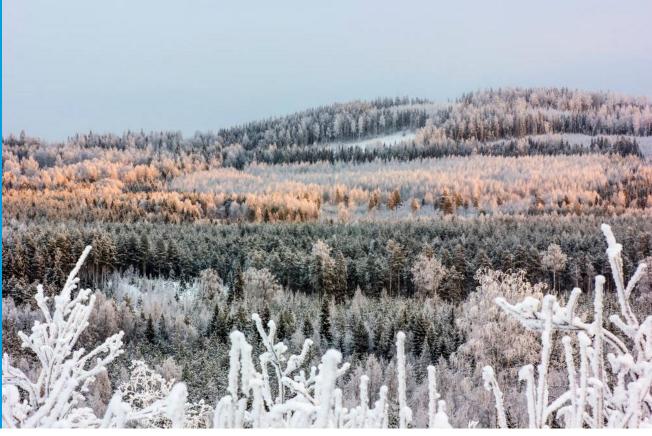
Fiber* 33% of total Group costs



~30% 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



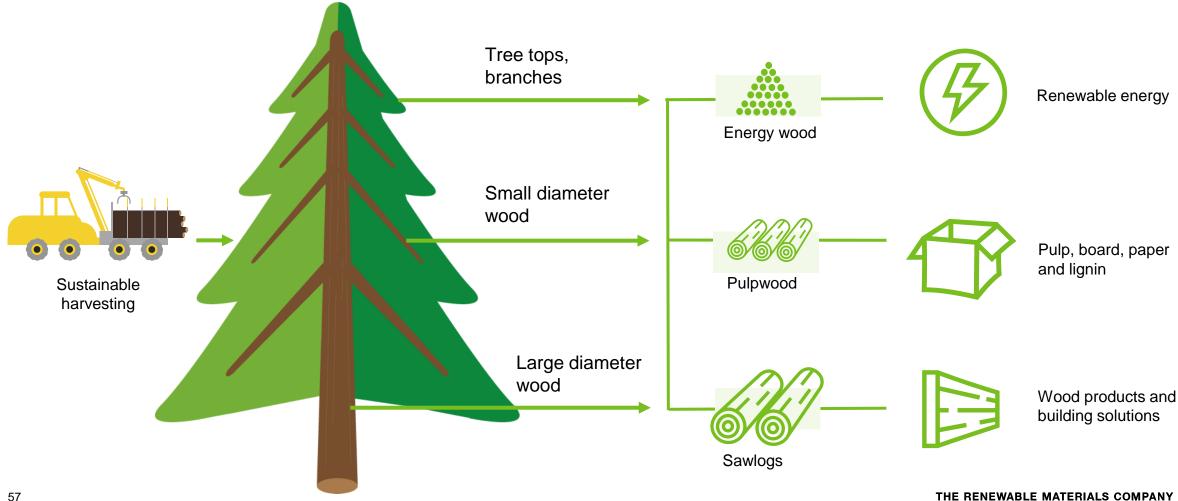
- Enables further control of our wood supply
- Establishes a resilience to changes in the market environment
- Secures availability and lowers wood costs for the Group
- Provides tactical flexibility in wood supply
- Minimises the logistical carbon footprint and lowers transportation cost

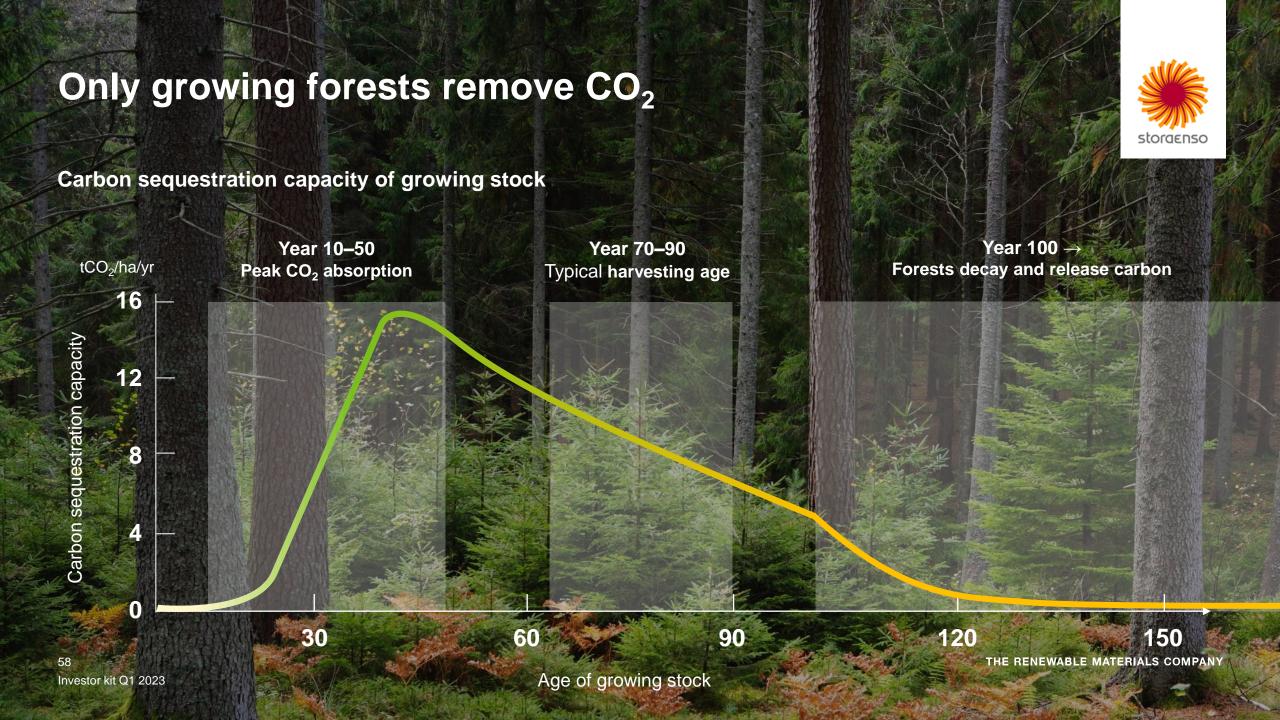


- Stora Enso forest areas in Sweden and Tornator forest areas in Finland
- Board, pulp and paper production sites
- Sawmills

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

Wind power opportunities are emerging



Our ambition is to develop and significantly increase our involvement in wind energy

The total potential for wind power production on Stora Enso's land in Sweden is estimated to 75 TWh

~30% of this potential can be realised long term

Our ambition is to have 5-10 TWh of wind power production in place by 2030 (~5% of Sweden's total electricity demand)



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

We are protecting our margins by building a less cyclical business



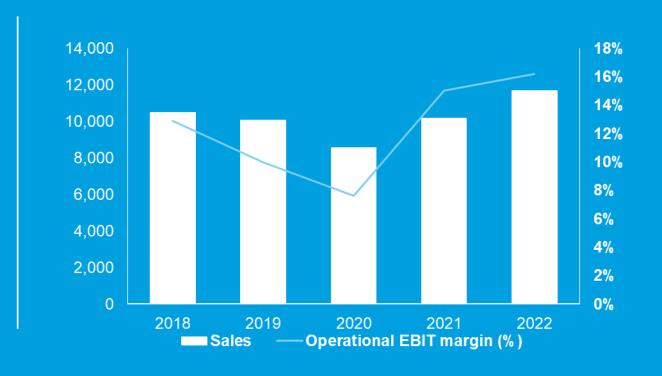
Growing in three focus areas in renewable materials

High self-sufficiency of wood and energy

Reduce our market pulp position significantly

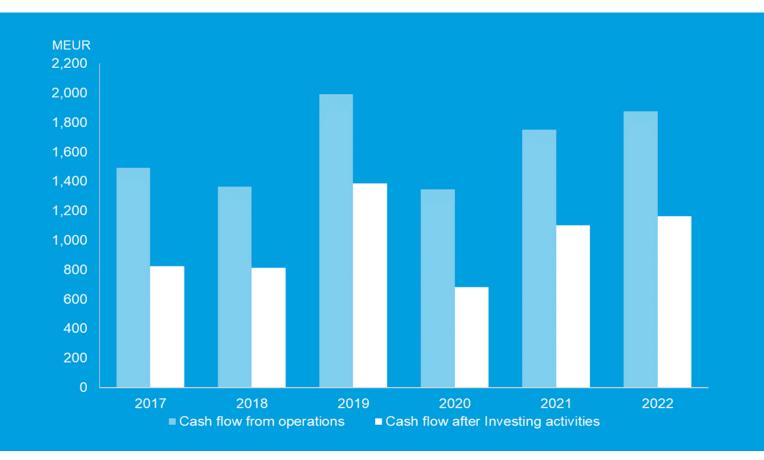
Divesting Paper

Developing new revenue streams



Strong cash flow generation over the cycles

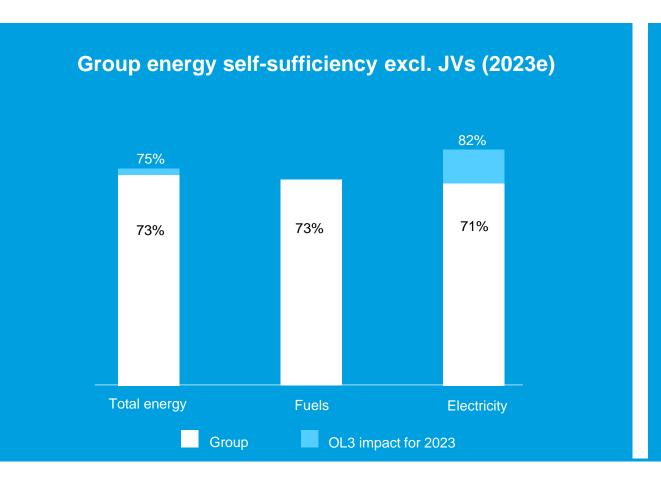


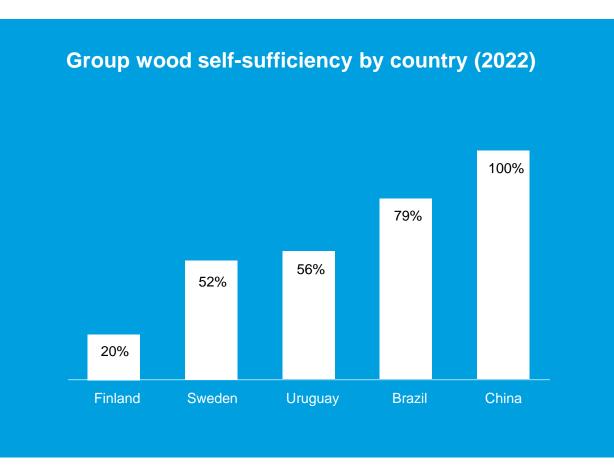


- Stora Enso continues to deliver strong cash flow
- Cash flow from operations increased to €1,873 (€1,752) million in 2022
- Cash flow after investing activities was €1,162 (1,101) million in 2022

Start-up of the Olkiluoto 3 nuclear power plant increases Group's energy self-sufficiency to 75%







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

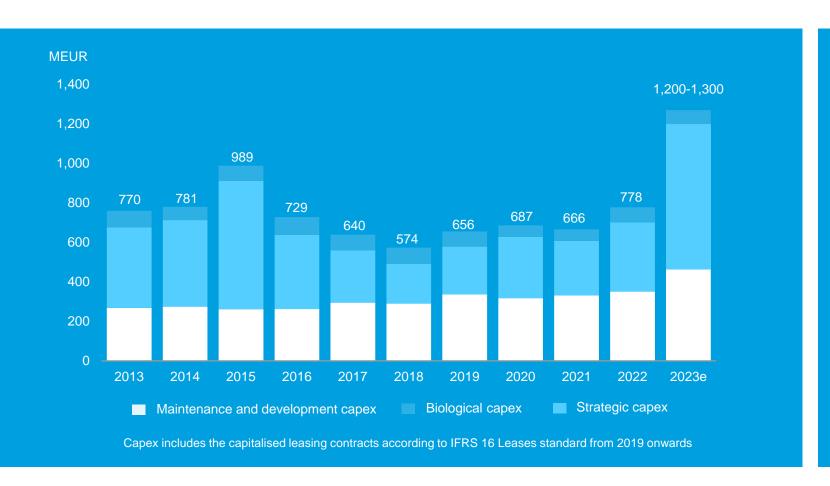


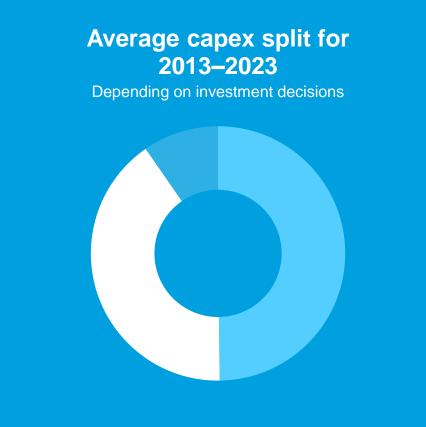
Dividends

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

Higher capex estimate mainly due to growth investments in consumer board

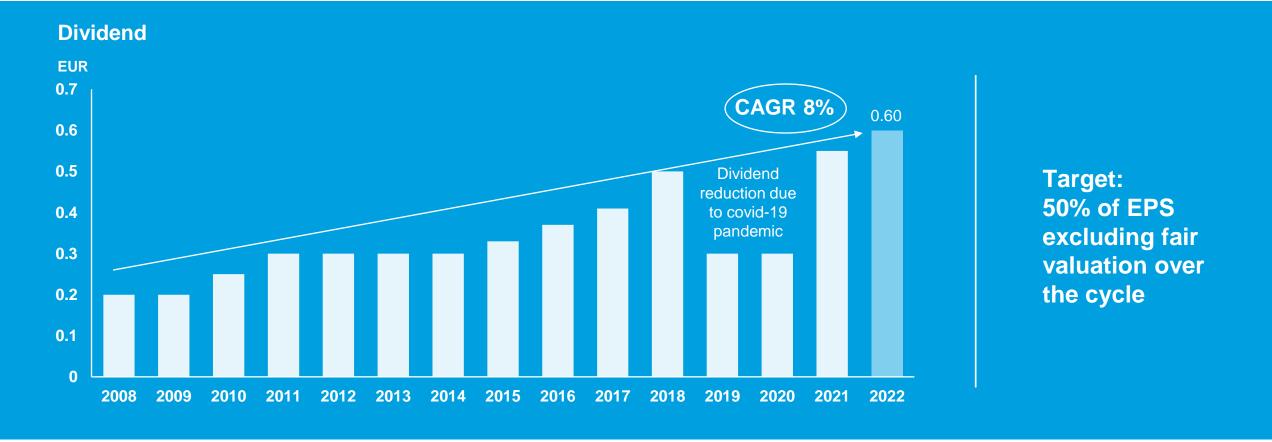






Dividend was increased to an all time high of €0.60 per share





Cost structure in 2022





Continued solid liquidity position

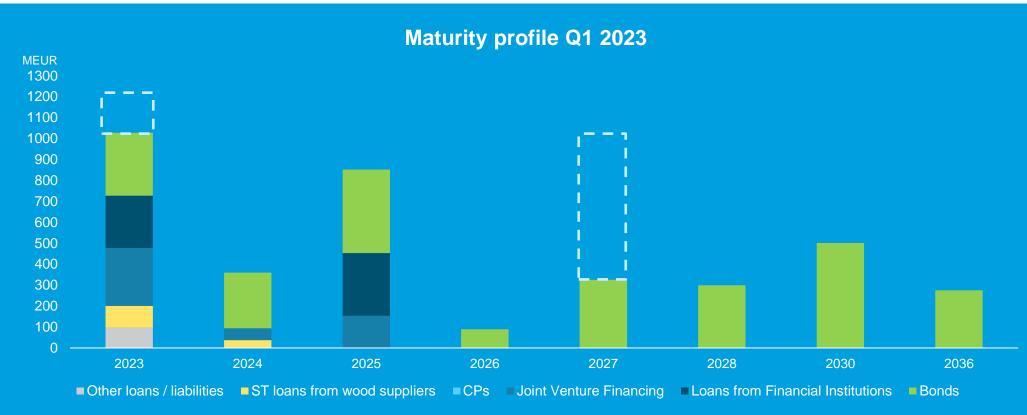




- Liquidity at the end of Q1 2023:
 - €1,238m cash and cash equivalents
 - €700m committed revolving credit facility fully undrawn
 - €200m committed credit facilities fully undrawn
 - €1,050m statutory pension premium loans available
- No financial covenants on Stora Enso Oyj's debt
- Net debt to operational EBITDA at 1.3x and net debt/equity ratio at 25%

Maturity profile at the end of quarter





Committed credit facilities are fully undrawn and mature in 2023 and 2027 (€ 900 million in total).

Permanent pulp, paper and board capacity reductions since 2006



| Site | Date | Grade | Capacity reduction, t |
|--------------------------------|------------|-------------------------------------|-----------------------|
| Corbehem PM 3 and PM 4 | Jun 2006 | LWC | 250,000 |
| Varkaus PM 1 | End 2006 | WFC | 95,000 |
| Berghuizer Mill | Oct 2007 | WFU | 235,000 |
| Reisholz Mill | End 2007 | SC | 215,000 |
| Summa Mill | Jan 2008 | Newsprint, uncoated mag, book paper | 415,000 |
| Anjala Mill PM1 | Feb 2008 | Coated magazine paper | 155,000 |
| Baienfurt Mill | End 2008 | FBB | 190,000 |
| Kabel Mill PM 3 | End 2008 | Coated magazine | 140,000 |
| Kemijärvi Pulp Mill | April 2008 | Long-fibre (SW) pulp | 250,000 |
| Norrsundet Pulp Mill | Dec 2008 | Long-fibre (SW), pulp | 300,000 |
| Varkaus Mill coreboard machine | Dec 2008 | Coreboard | 100,000 |
| Imatra PM 8 | Mar 2010 | WFU | 210,000 |
| Varkaus PM 2 and PM 4 | Sep 2010 | Newsprint, directory paper | 290,000 |
| Maxau PM 7 | Nov 2010 | Newsprint | 195,000 |

| PM = | Paper | mac | hine |
|------|-------|-----|------|
|------|-------|-----|------|

| Site | Date | Grade | Capacity reduction, t |
|-------------------|-------------|--|-----------------------|
| Hylte PM1 | Dec 2012 | Newsprint | 180,000 |
| Ostroleka PM2 | Jan 2013 | Containerboard | 85,000 |
| Hylte PM2 | May 2013 | Newsprint | 205,000 |
| Kvarnsveden PM11 | May 2013 | Newsprint | 270,000 |
| Veitsiluoto PM1 | Apr 2014 | Coated magazine | 190,000 |
| Corbehem Mill | July 2014 | LWC | 330,000 |
| Varkaus | Aug 2015 | WFU | 280,000 |
| Suzhou | Jun 2016 | WFU | 240,000 |
| Kvarnsveden PM8 | Jun 2017 | SC | 100,000 |
| Imatra PM 6 | End of 2019 | Coated spec. | 90,000 |
| Oulu PM 6 and PM7 | Sep 2020 | WFC | 1,080,000 |
| Hylte PM3 | Dec 2020 | News | 235,000 |
| Kvarnsveden site | Q3 2021 | SC, impr. News, packaging paper | 565,000 |
| Veitsiluoto site | Q3 2021 | LWC, MWC, WFU, speciality paper, packaging paper | 790,000 |
| Total* | | | 7,680,000 |

^{*}One of the two paper machines (250kt) in Anjala to be closed in Q4 2023

Permanent sawn wood capacity reductions since 2006



| Site | Date | Capacity reduction, m ³ |
|---------------------|-------------|------------------------------------|
| Veitsiluoto Sawmill | 2006 | 100,000 |
| Honkalahti Sawmill | 2006 | 90,000 |
| Sauga Sawmill | 2007 | 130,000 |
| Sollenau Sawmill | 2007 | 110,000 |
| Näpi Sawmill | 2007-2008 | 100,000 |
| Kotka Sawmill | 2007-2008 | 70,000 |
| Paikuse Sawmill | 2008 | 220,000 |
| Zdirec Sawmill | 2008 | 120,000 |
| Ybbs Sawmill | 2008 & 2009 | 200,000 |
| Kitee Sawmill | 2008 & 2009 | 130,000 |
| Varkaus Sawmill | 2009 | 60,000 |
| Tolkkinen Sawmill | 2009 | 260,000 |
| Kopparfors Sawmill | 2011 | 310,000 |
| Sollenau Sawmill | 2014 | 400,000 |
| Kitee | 2019 | 260,000 |
| Total | | 2,560,000 |

Ownership distribution at the end of Q1 2023



| | 1 | l |
|--|-------------|------------|
| | % 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) | 10.1% | 7.8% |
| Swedish institutions (excl. FAM) | 1.6% | 1.0% |
| Finnish private shareholders | 4.2% | 2.5% |
| Swedish private shareholders | 3.1% | 2.3% |
| ADR holders | 1.6% | 0.5% |
| Under nominee names (non-Finnish/non-Swedish shareholders) | 55.5% | 21.3% |

^{*} Entirely owned by the Finnish State

Major shareholders at the end of Q1 2023



| By voting power | A shares | R shares | % of shares | % of votes |
|---|-------------|------------|-------------|------------|
| 1 Solidium Oyj* | 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 (KELA) | 23,825,086 | 0 | 3.0 | 10.0 |
| 4 Ilmarinen Mutual Pension Insurance Company | 4,159,992 | 14,400,000 | 2.4 | 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 | 7,755,000 | 1.2 | 1.2 |
| 8 Bergslaget's Healthcare Foundation | 626,269 | 1,609,483 | 0.3 | 0.3 |
| 9 The State Pension Fund | | 5,000,000 | 0.6 | 0.2 |
| 10 SEB Investment management | 0 | 4,705,130 | 0.6 | 0.2 |
| 11 The Society of Swedish Literature in Finland | 0 | 3,000,000 | 0.4 | 0.1 |
| 12 Avanza Pension Insurance | 140,930 | 1,381,288 | 0.2 | 0.1 |
| 13 Afa Insurance | 0 | 2,393,876 | 0.3 | 0.1 |
| 14 Unionen (Swedish trade union) | 0 | 2,312,750 | 0.3 | 0.1 |
| 15 Nordea Pro Finland Fund | 0 | 1,775,614 | 0.2 | 0.1 |
| 16 Danske Invest Finnis Equity Fund | 0 | 1,700,000 | 0.2 | 0.1 |
| 17 OP Finland Value | 0 | 1,699,753 | 0.2 | 0.1 |
| 18 Investment fund Seligson & Co OMXH25 | 0 | 1,360,961 | 0.2 | 0.1 |
| 19 SEB-Stiftelsen, Skandelska | 0 | 1,250,000 | 0.2 | 0.1 |
| 20 EVLI Finland Select Fund | 0 | 1,190,000 | 0.2 | 0.1 |
| 20 largest total | 166,588,717 | 92,467,269 | 32.9 | 74.2 |
| *Entirely owned by the Finnish State. **As confirmed to Stora Enso. | | | | |

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.

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Sponsored ADR Programme



Stora Enso has a sponsored Level I ADR programme in the US. The ADRs trade on the premier tier of Over-The-Counter ("OTC") market. Details are as follows:

Ticker Symbol SEOAY

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:

Citibank Shareholder Services

Computershare

P.O. Box 43077

Providence, Rhode Island 02940-3077

Email: citibank@shareholders-online.com

Direct dial: (781) 575-4555

Group Leadership Team





President and CEO Annica Bresky



CFO, **Acting Head** of Paper Seppo Parvi



Chief Strategy and Innovation Officer **Tobias** Bäärnman



Packaging Solutions David Ekberg



Biomaterials Johanna Hagelberg



Brand and Communication René Hansen



Packaging Materials Hannu Kasurinen



HR Katariina Kravi



Forest Per Lyrvall



Sustainability Annette Stube



Wood Products Lars Völkel



Sourcing & Logistics Minna Björkman

Board of Directors





Antti Mäkinen Chair



Håkan Buskhe Vice Chair



Elisabet Fleuriot



Astrid Hermann



Helena Hedblom



Kari Jordan



Christiane Kuehne



Richard Nilsson



Hans Sohlström



Forest assets and fair valuation

Stora Enso's global forest assets' fair values and valuation methodology by region Group forest assets fair value at €8.3 billion or €10.49 per share in Q1 2023



All figures total forest

assets including biological assets and forest land*

Group forest assets

Biological assets: €5.6 billion

Forest land*: €2.6 billion

99% certified wood from own forests

*including leased land

Sweden €6.0 billion

(Market transactionbased fair value) (Q1 23)

Montes del Plata (50%) €484m (DCF) (Q1 23)

Veracel (50%) €140m (DCF) (Q1 23) Tornator (41%) €1.3 billion

(Market transactionbased fair value) (Q1 23)

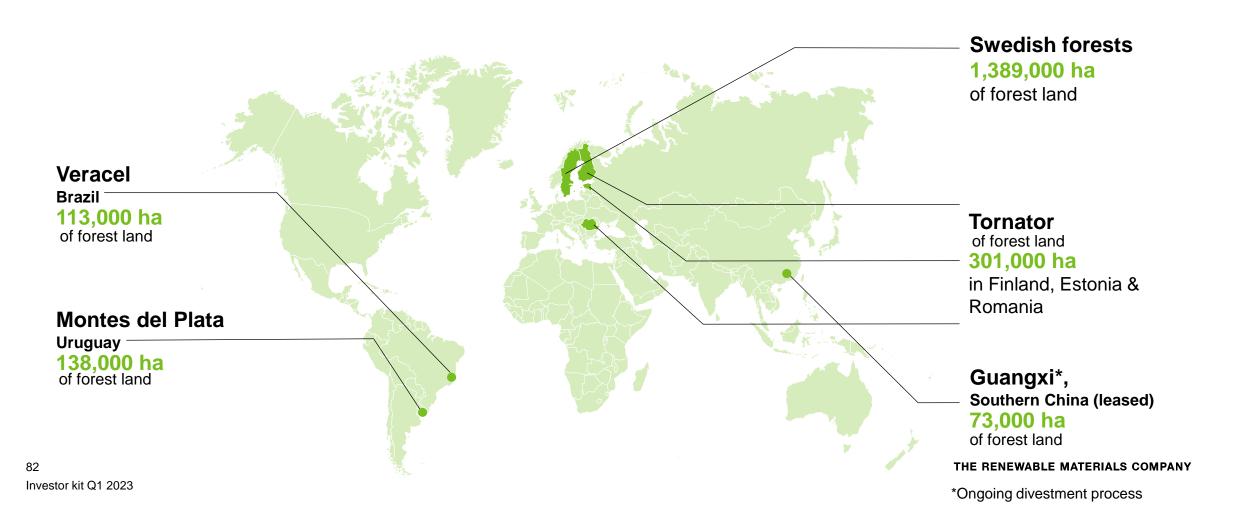
Guangxi €342m (DCF) (Q1 23)

(DCF) (Q1 23)

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



~30% self-sufficiency of wood supply from own forest assets and long-term agreements



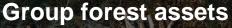
Biannual market transaction-based fair valuation in Sweden and Finland

Plantations

Sweden

Tornator, Finland





BEUR

8.3

1.0

1.3

6.0

Q4 2022

8.3

1.0

1.3

6.0

Q1 2023

Sweden and Finland

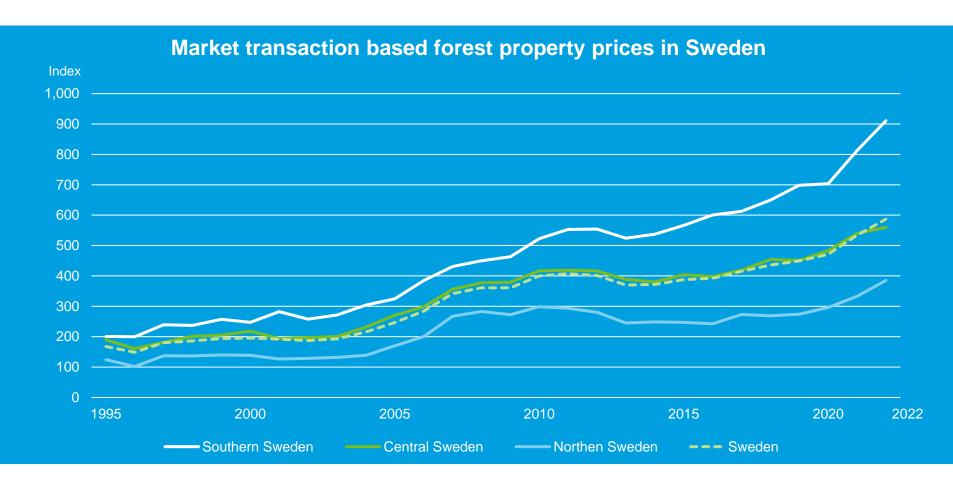
- Market transactions from our forest regions
- Volume weighted three year average transactions
- Standing stock and price data of the traded forest
- Biannual valuation process

Plantations

- DCF method
- Forest land at historical cost

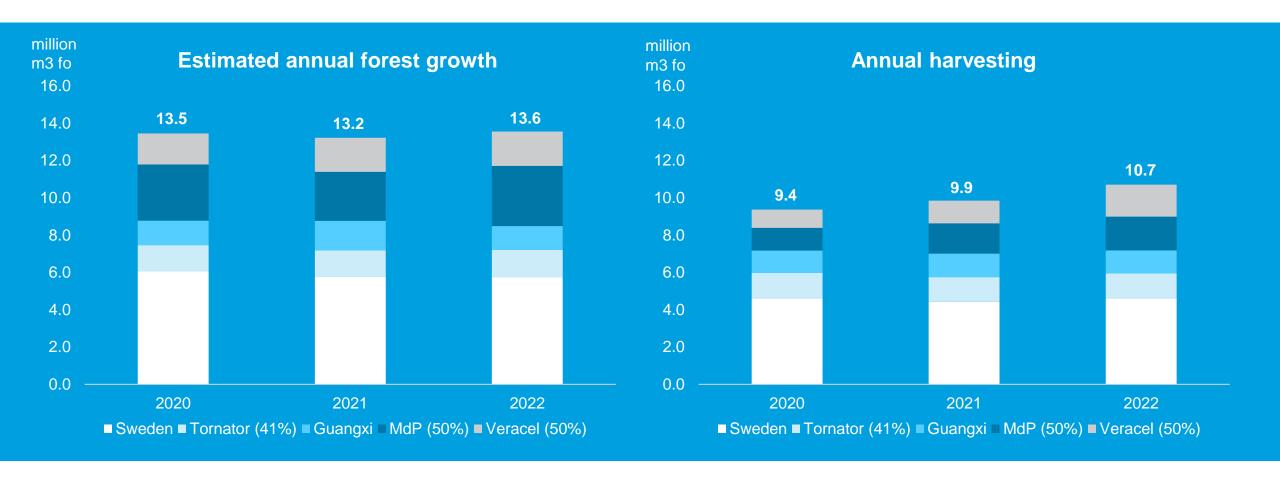
Market transaction prices continued to increase in 2022





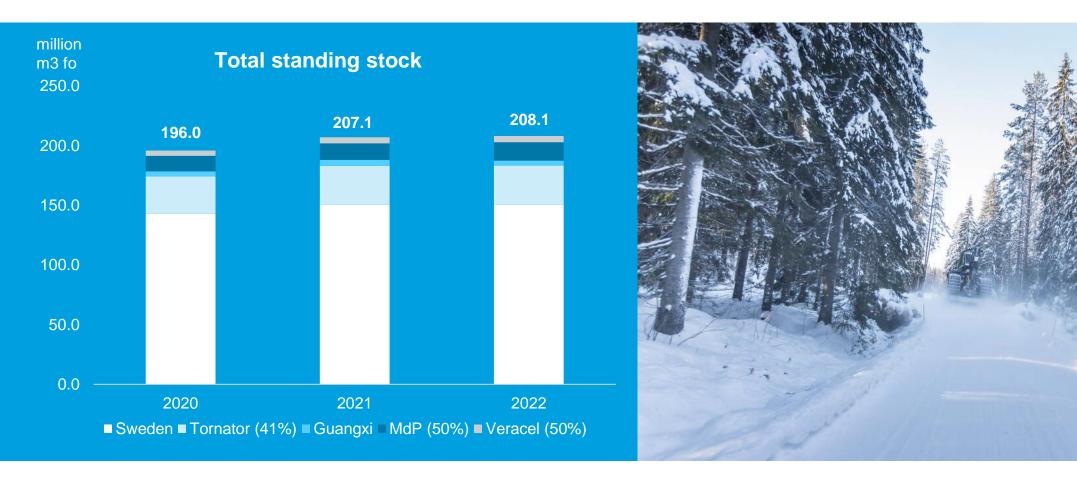
Annual harvesting represented 79% of the forest growth in 2022





Increasing standing forest stock







Our purpose





Delivering on our strategic roadmap during challenging market conditions



Key highlights

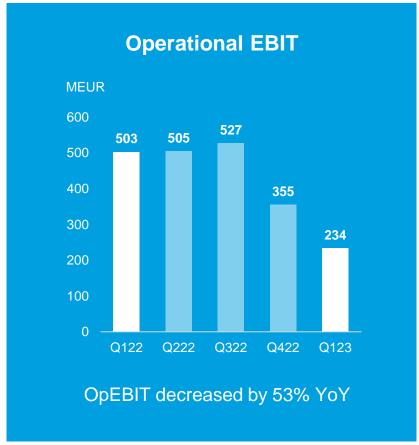
- Optimisation of the business portfolio by the discontinuation of the Paper division to focus on the key growth areas
- Completion of the strategic acquisition of De Jong to advance growth in renewable packaging and entering new markets
- Allocation of capital to the Oulu site to grow in high-end renewable consumer board, creating the lowest cash cost megasite in Europe
- Continuation of the divestment process of the Beihai site proceeding to plan

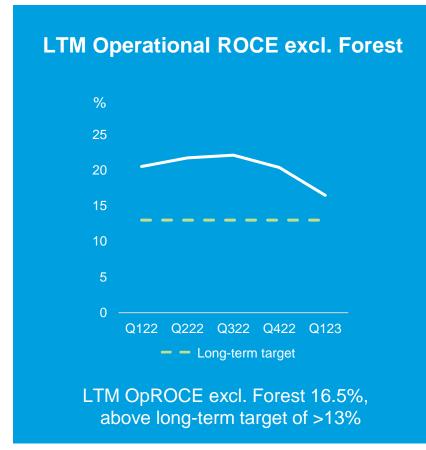


Market-driven slowdown and higher cost levels continued to impact sales and profit



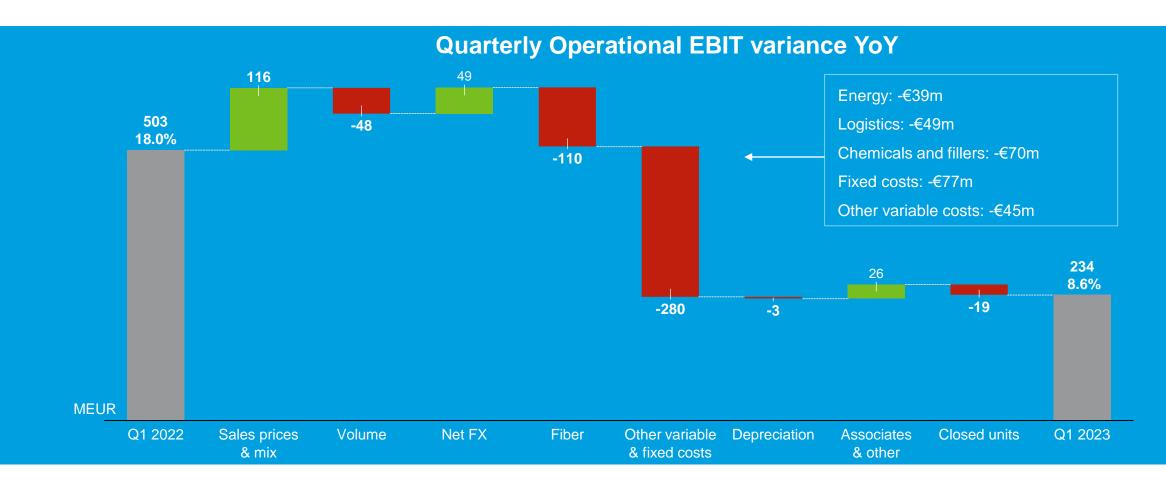






Higher prices did not mitigate the continued increase in variable costs





Maintenance shutdowns impacting quarterly results



Group total maintenance impact on operational EBIT



Major maintenance shutdowns in 2023

Packaging Materials

Q1: -

Q2: Beihai, Ostroleka, Langerbrugge

Q3: Anjala, Heinola, Ostroleka, Oulu, Varkaus, Ingerois

Q4: Fors, Imatra, De Hoop, Skoghall

Biomaterials

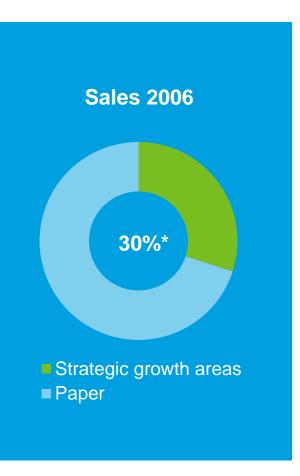
Q1: Veracel

Q2: Montes Del Plata, Skutskär

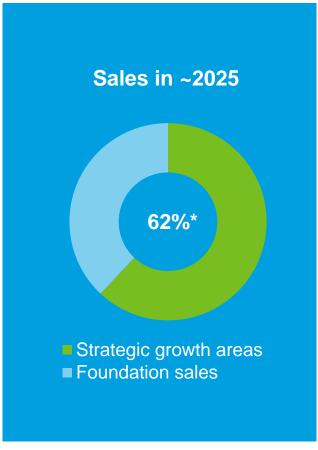
Q3: Sunila Q4: Enocell

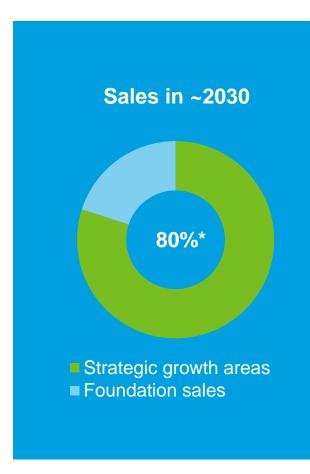
Strategic growth areas represented 53% of sales Q1/2023











^{*}Strategic growth areas include Packaging Materials, Packaging Solutions, Biomaterials Innovations (part of Biomaterials), Building Solutions (part of Wood Products) and New business (part of Segment Other) **Foundation businesses include Pulp in Biomaterials, Traditional Wood Products in Wood Products, Forest and Paper

Delivering on strategic initiatives and completing tactical acquisition



Strategic investments and integration

Completed the De Jong acquisition on 6 January - ongoing integration.
 The corrugated business is part the Packaging Solutions division and
 De Hoop containerboard business is part of the Packaging Materials division

Allocation of capital for growth in renewable packaging

- · Growth investment at the Oulu site
- Initiated divestment process of the Beihai site

Discontinued the paper division on 1 January 2023

- Finalised divestments of the Nymölla, Maxau and Hylte paper sites
- Discontinued divestment process of the Anjala paper site the site will be retained in the Group and one of two paper machines planned to be closed down



Partnering to develop and advance innovations



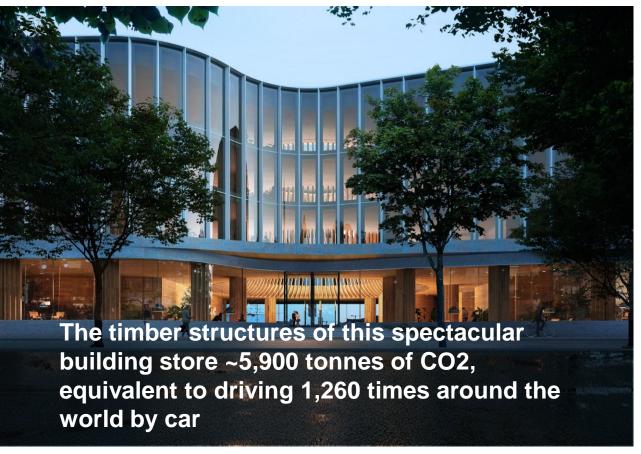
New co-operations to enhance development of lignin-based products and bio-based polyesters

- Bio-based plywood, collaboration with Polish plywood manufacturer Paged – using high-purity kraft lignin
- Stora Enso and Finnish company Valmet are collaborating on next-generation lignin product and process development
- Joint Development Agreement with Korean company Kolon to develop and industrialise bio-based polyesters as an alternative to fossil-based plastics



Building a sustainable renewable future with wood





The timber from Stora Enso alone removed ~5,800 tonnes of CO2 from the atmosphere while the trees were growing which they will store safely in the structure for the duration of the building's lifecycle

Photo: Pasi Salminen/Stora Enso

Stora Enso HQ - Building owner: Finnish pension insurance company Varma

Photo: Steeltech Industries PTE Ltd

University Building in Nanyang, Singapore



Financials

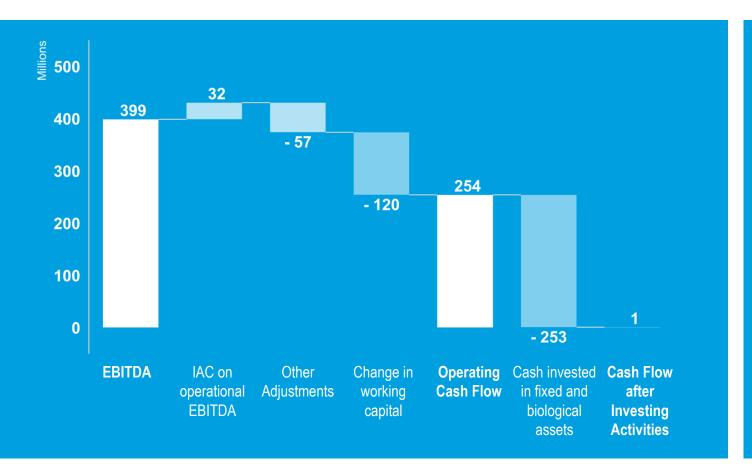
Long-term Group level financial targets Growth impacted by lower deliveries and structural changes



| Group long-term financial | targets | Q1 22 | Q1 23 | 2022 | |
|--------------------------------------|--|-------|-------|-------|--|
| Dividend (annual) | To distribute 50% of EPS excluding fair valuation over the cycle | N/A | N/A | 0.60 | |
| Growth YoY | > 5% | 23% | -3% | 17% | |
| Net debt to operational EBITDA | < 2.0x | 1.1 | 1.3 | 0.7 | |
| Net debt to equity | < 60% | 24% | 25% | 15% | |
| LTM Operational ROCE excl. Forest | > 13% | 20.5% | 16.5% | 20.4% | |
| Divisional long-term finan | cial targets | Q1 22 | Q1 23 | 2022 | |
| Packaging Materials | LTM Operational ROOC > 20% | 18.4% | 13.5% | 18.6% | |
| Packaging Solutions | LTM Operational ROOC > 15% | 18.6% | 5.2% | 7.9% | |
| Biomaterials | LTM Operational ROOC > 15% | 22.2% | 24.0% | 25.3% | |
| Wood Products | LTM Operational ROOC > 20% | 65.8% | 24.9% | 43.2% | |
| Forest | LTM Operational ROCE > 3.5% | 3.7% | 3.8% | 3.7% | |

Cash flow impacted by working capital development and high capex - focus on improving cash flow

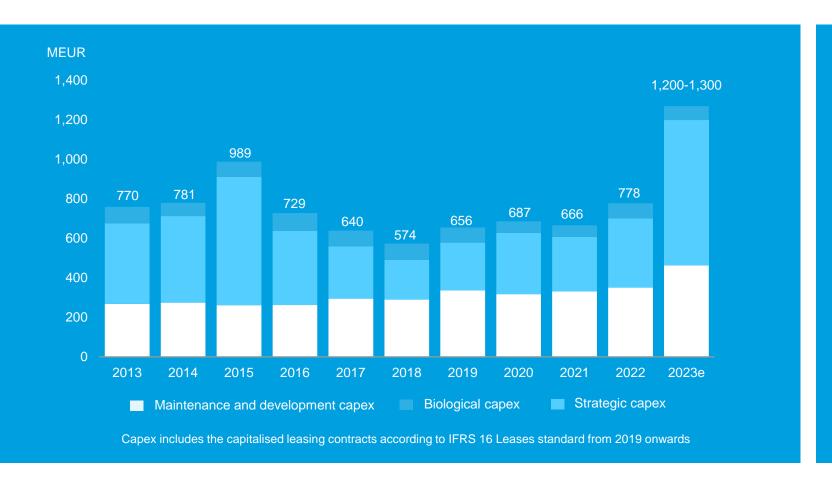


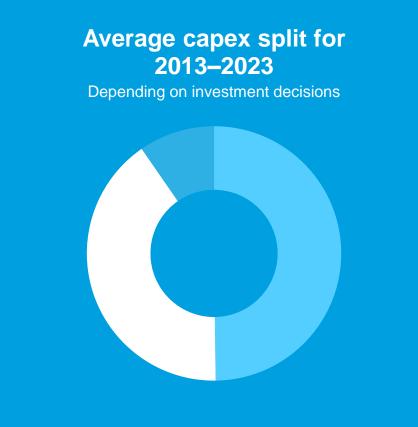


- Cash flow after investing activities was EUR 1 (202) million
- Working capital increased by EUR 120 million, mainly due to increased inventories, and was offset by lower trade receivables and increased payables
- Cash spent on capex was EUR 253 million, of which the majority related to strategic investments
- Focus on turning around the working capital trend and restricted capital allocation to improve cash flow
- We will postpone major strategic initiatives until further notice including a decision on a conversion at the Langerbrugge site. We are also assessing the investment in Lignode

Higher capex estimate mainly due to growth investments in consumer board







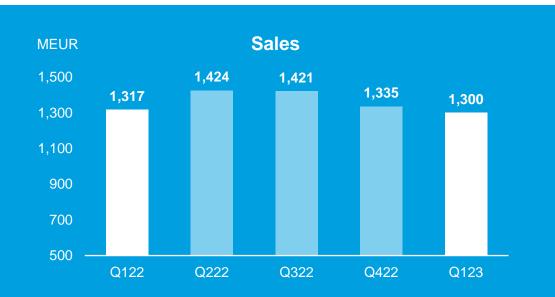


Divisional overview

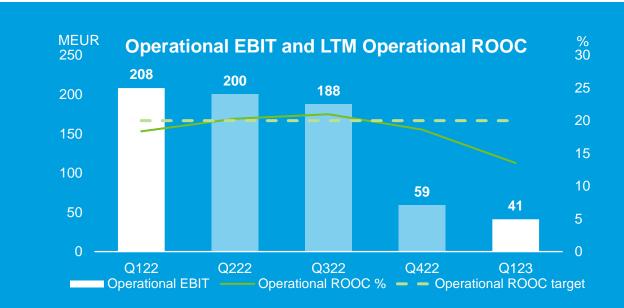
Packaging Materials



High operating costs continued in the quarter, with weakening market demand outside Liquid Packaging Board



- Sales -1% YoY
- Price and volume decline was only partly offset by the contribution from the De Hoop recycled containerboard site and higher Consumer Board and Paper prices
- · Weakening demand of cartonboard towards the end of the quarter



- OpEBIT -€167m YoY
- Increased operating costs, lower containerboard volumes and prices and impact from the logistics strikes in Finland were only partly offset by higher consumer board and paper prices
- LTM OpROOC at 13.5%, long-term target >20%

Falling containerboard prices due to weaker demand and high inventories - weakening Folding Box Board prices





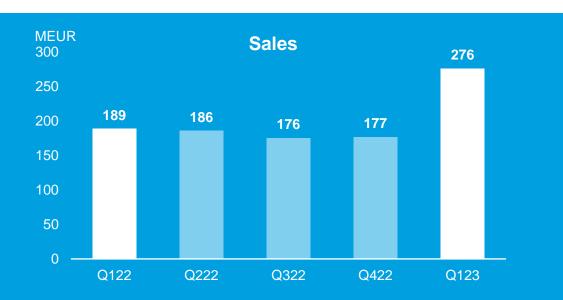


103 Source: Euwid THE RENEWABLE MATERIALS COMPANY

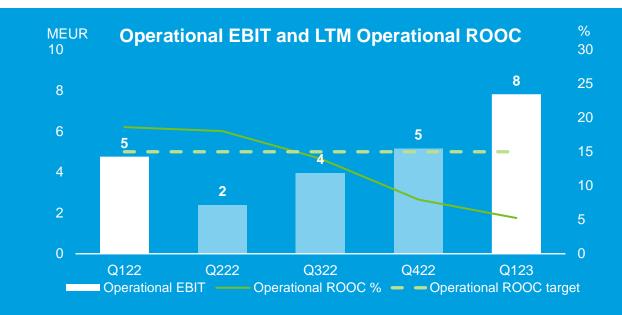
Packaging Solutions

Strengthened results despite challenging overall market demand





- Sales +46% YoY
- The acquisition of De Jong more than offset the impact from the divestment of the Russian operations in Q2/2022
- Sales from the Northern and Central-Eastern European businesses decreased slightly due to the soft market, and lower sales prices



- OpEBIT +€3m YoY
- The acquisition of De Jong and contribution from Northern and Central-Eastern Europe improved performance, mitigating negative impact from the soft market and the divestment of the Russian operations in Q2/2022
- LTM OpROOC at 5.2%, long-term target >15%

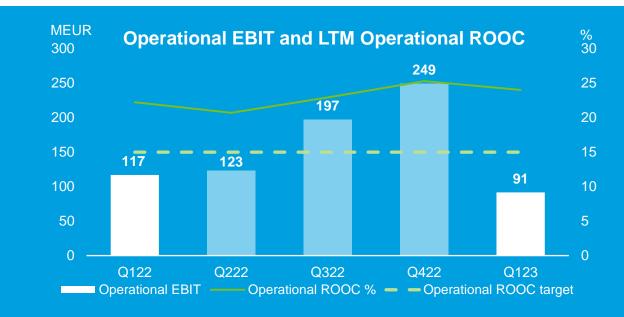
Biomaterials

stordenso

All-time high first quarterly sales did not offset cost escalation as the pulp market turned softer during the quarter



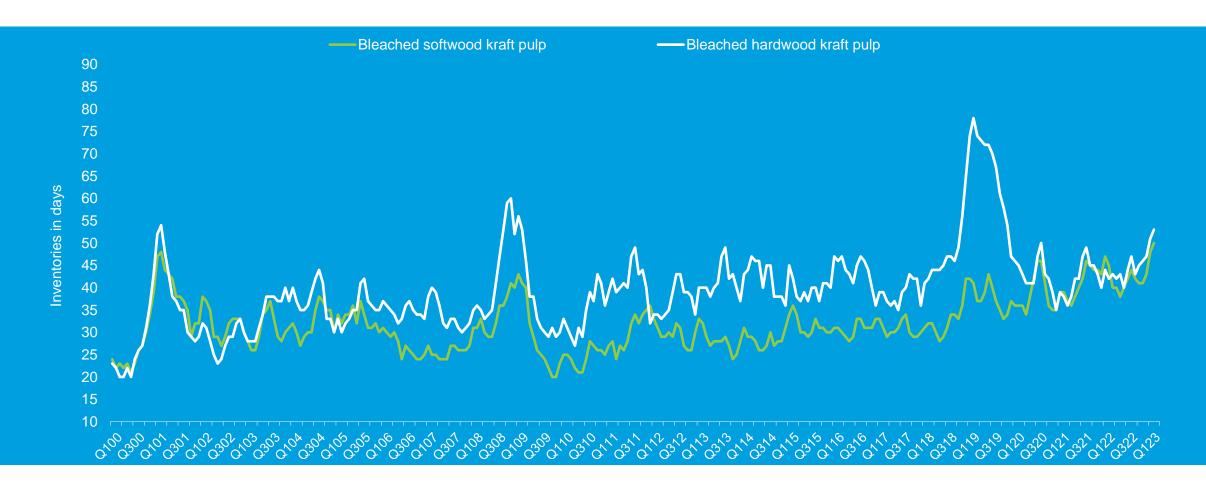
- Sales +10% YoY, first quarter all-time high
- Sales were driven by stronger year-on-year prices, solid byproduct sales support and favourable currency exchange rates
- Increasing global market pulp inventories due to low demand, and weaker than expected the Chinese market



- OpEBIT -22% YoY
- Higher sales did not offset higher higher wood, chemicals and fixed costs
- The Veracel site in Brazil had a planned major annual maintenance shutdown which significantly impacted the result
- LTM OpROOC at 24%, long-term target >15%

Global pulp inventories



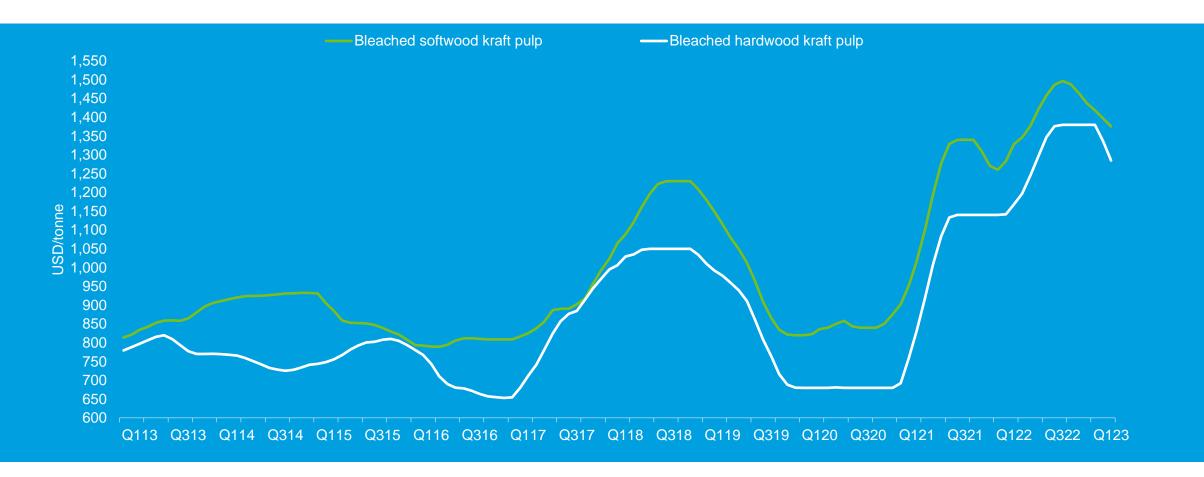


Source: FOEX/PIX THE RENEWABLE MATERIALS COMPANY

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Global market pulp prices





107 Source: PIX THE RENEWABLE MATERIALS COMPANY

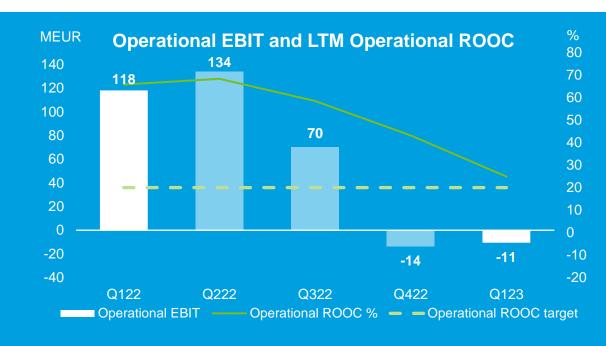
Wood Products

storaenso

Sales and profit were impacted by a significantly weaker sawn wood market and the exit from the Russian operations



- Sales -21% YoY
- The construction market was impacted by market slowdown with fewer building permits and projects
- Lower sales mainly impacted by lower volumes and sales prices, especially for sawn wood, and the exit from the Russian operations in Q2/2022

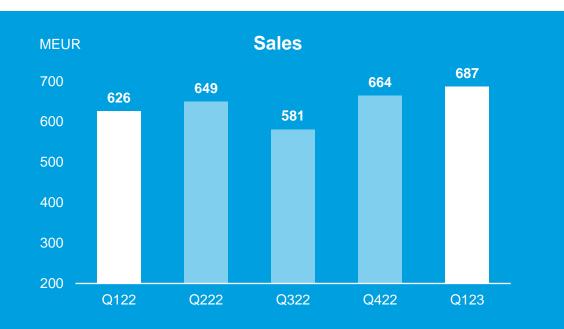


- OpEBIT -€129m YoY
- Lower prices and volumes, together with increased costs mainly for logistics and electricity
- LTM OpROOC at 24.9%, long-term target >20%

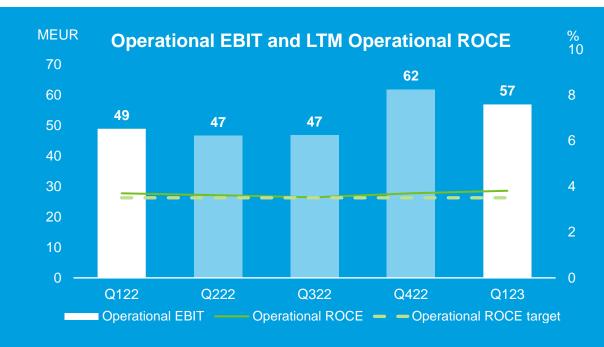
Forest

Strong and stable financial result continued





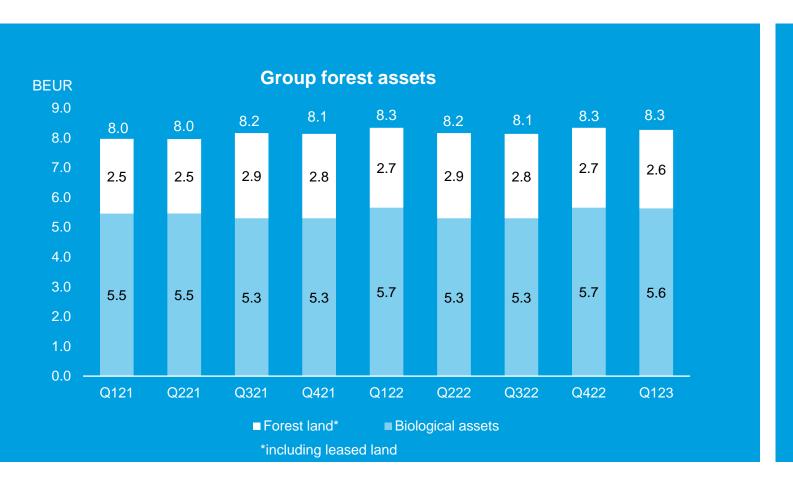
- · Sales +10% YoY
- Sales was driven by higher wood prices year-on-year, especially in pulpwood, whereas the wood demand was lower year-on-year



- OpEBIT +16% YoY
- Results were driven by stable and strong operational performance in the Group's own forest assets and in the wood supply operations
- LTM OpROCE at 3.8%, long-term target >3.5%

Stable forest assets fair value development provides strong resilience to inflation





- Fair value of €8.3 billion equivalent to €10.49 per share
- Slight adverse FX impact, mainly in SEK
- Market transaction-based forest property prices updated in Finland and Sweden in connection with Q2 and Q4 reporting



Outlook & Market development

Outlook and guidance



Lowered annual guidance due to worsening outlook: the FY2023 operational EBIT is expected to be significantly lower than for the FY2022 (€1,891m)

- Cost pressures and market uncertainties are expected to be significantly more challenging in 2023 than in 2022 weighing on our result and lowering the short-term visibility this year
- Group margins are expected to be adversely impacted by increasing costs, particularly in relation to energy, wood, and chemicals
- Demand in the whole packaging market is weakening, especially containerboard, Wood Products are impacted by the continued slowdown in the construction sector, and a weaker pulp market with tight availability of pulpwood is expected to weigh on the Biomaterials division
- Pricing, flexibility in product mix, inventory, capacity adjustments, sourcing and logistics and reinforced cost control are in place
- Restrictive capital expenditure and working capital management to safeguard cash flow and to secure a solid balance sheet are in place
- Operationally, the focus on decentralisation continues in combination with a reduction of overhead costs, focus on cash flow and lowering capex

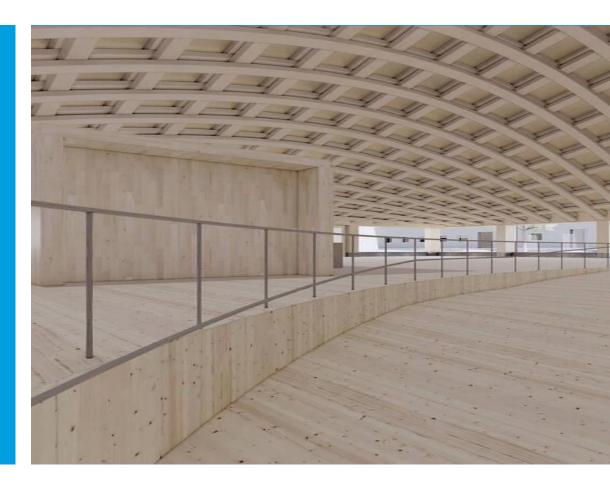
Group Operational EBIT

| Guidance range full year | % | |
|--------------------------|---------------------------------------|--|
| Significantly higher | +50 % and above | |
| Higher | More than +15%, but less than +50% | |
| In line with | +/- 15 % | |
| Lower | More than -15%, but less than -50% | |
| Significantly lower | - 50 % and below | |

Market demand outlook for Q2 2023 compared to Q1 2023



| Packaging Materials | Demand for consumer board is expected to remain stable Demand for containerboard is expected to remain weak |
|------------------------|---|
| Packaging Solutions | Demand for corrugated packaging is expected to slightly improve due to seasonality |
| Biomaterials | Pulp demand is expected to be lower in Europe and China |
| Wood Products | Limited seasonal demand improvement for sawn wood expected |
| Forest | Sawlogs demand is expected to remain stable, while pulpwood demand is expected to decline |



Key takeaways



Financial performance

- Weak Q1 results caused by external factors such as weakening demand and continued high cost inflation
- Managing market volatility with flexibility and sourcing measures, combined with reinforced cost control and lowering capex

Strategic initiatives

- Optimising the business portfolio to focus on long-term value creation by growing in renewable packaging, sustainable building solutions and biomaterials innovations
- Positioning for long-term growth by combining financial performance with lowered environmental impact to serve all business sectors















THE RENEWABLE MATERIALS COMPANY