

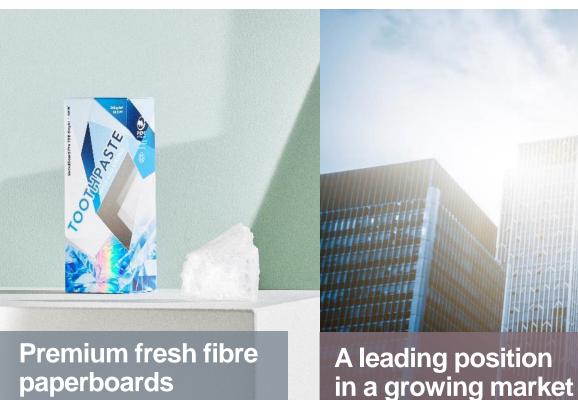
Contents

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Metsä Board: Investment highlights



paperboards

- · Recyclable and lightweight paperboards from renewable materials
- Packaging materials providing an alternative to plastics



- #1 in coated white kraftliners globally
- Fossil free production and products by the end of 2030

Strong focus on

sustainability

· Resource efficiency and reduced carbon footprint of packaging

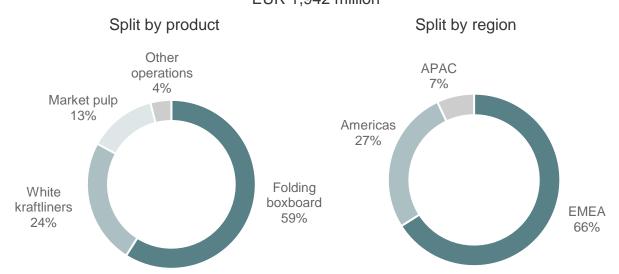


- Recently completed large-scale growth investments
- Mill-specific investments required to be fossil free in production in 2030

Metsä Board is part of profitable Metsä Group

Company in figures





Comparable operating result

FY2023: EUR 122 million or 6.3% of sales



Paperboard capacity

2.3 million

tonnes/year

Pulp and BCTMP capacity

1.7 million

tonnes/year

Ownership in Metsä Fibre*

24.9%

secures self-sufficiency in pulp

Long-term customerships



Diversified customer base in 100 countries including brand owners, converters, manufacturers of corrugated products and merchants



Strategy

VALUES

Reliability Cooperation Renewal Responsible profitability

STRATEGY

We grow in fibre-based packaging materials and renew our industrial operations.

OUR STRATEGIC PROGRAMMES

Premium supplier

Effective innovation

Safe and efficient operations and organic growth

Leader in sustainability

Motivated people

MEGATRENDS

Population growth Urbanisation Biodiversity loss Climate change Digitalisation





Metsä Board is part of Metsä Group

Metsä Group's interest is to increase the value of the forest of owner-members by processing northern wood into valuable and sustainable end-products

METSÄ GROUP

FY2023: Sales EUR 6.1 billion | ROCE 7.2% | Personnel 9,500

Parent company: METSÄLIITTO COOPERATIVE

owned by over 90,000 Finnish forest-owners

METSÄ FOREST

WOOD SUPPLY AND FOREST SERVICES

Holding Metsäliitto Cooperative 100%

METSÄ WOOD

WOOD PRODUCTS

Holding

Metsäliitto Cooperative 100%

METSÄ FIBRE

PULP AND SAWN TIMBER

Holding

Metsäliitto Cooperative 50.1% Itochu Corporation 25.0% Metsä Board 24.9%

METSÄ BOARD

PAPERBOARD

Holding

Metsäliitto Cooperative 50.2% Listed in Nasdaq Helsinki

METSÄ TISSUE

TISSUE AND GREASEPROOF PAPERS

Holding

Metsäliitto Cooperative 100%

METSÄ SPRING INNOVATION COMPANY



- > invest worldwide in start-ups and implement Metsä Group's own selected pilot/demo projects
- > lead Metsä Group's R&D with the aim of supporting and activating the development of Group's current businesses



We aim to improve our operations continuously



Metsä Board has an "A" score in the Climate and Water and an "A-" in the Forest rating.



Total score 87/100. Metsä Board has achieved the highest rating level every year since 2017.



Link to ISS website



DRIVING AMBITIOUS CORPORATE CLIMATE ACTION

Metsä Board's GHG emission reduction targets are approved by the Science Based Targets initiative.





Link to MSCI website

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Link to Sustainalytics website

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Link to Ellen MacArthur Foundation website





As part of Metsä Group, Metsä Board is committed to the UN Global Compact corporate responsibility initiative and its principles in the areas of human rights, labour, the environment and anti-corruption. Metsä Board also supports the UN's Sustainable Development Goals, the SDGs.



We are committed to the UN Global Compact

HUMAN RIGHTS

Principle 1: Businesses should support and respect the protection of internationally proclaimed human rights; and

Principle 2: make sure that they are not complicit in human rights abuses.

LABOUR

Principle 3: Businesses should uphold the freedom of association and the effective recognitior of the right to collective bargaining;

Principle 4: the elimination of all forms of forced and compulsory labour;

Principle 5: the effective abolition of child labour; and

Principle 6: the elimination of discrimination in respect of employment and occupation.

WE SUPPORT



ENVIRONMENT

Principle 7: Businesses should support a precautionary approach to environmental challenges;

Principle 8: undertake initiatives to promote greater environmental responsibility; and

Principle 9: encourage the development and diffusion of environmentally friendly technologies.

ANTI-CORRUPTION

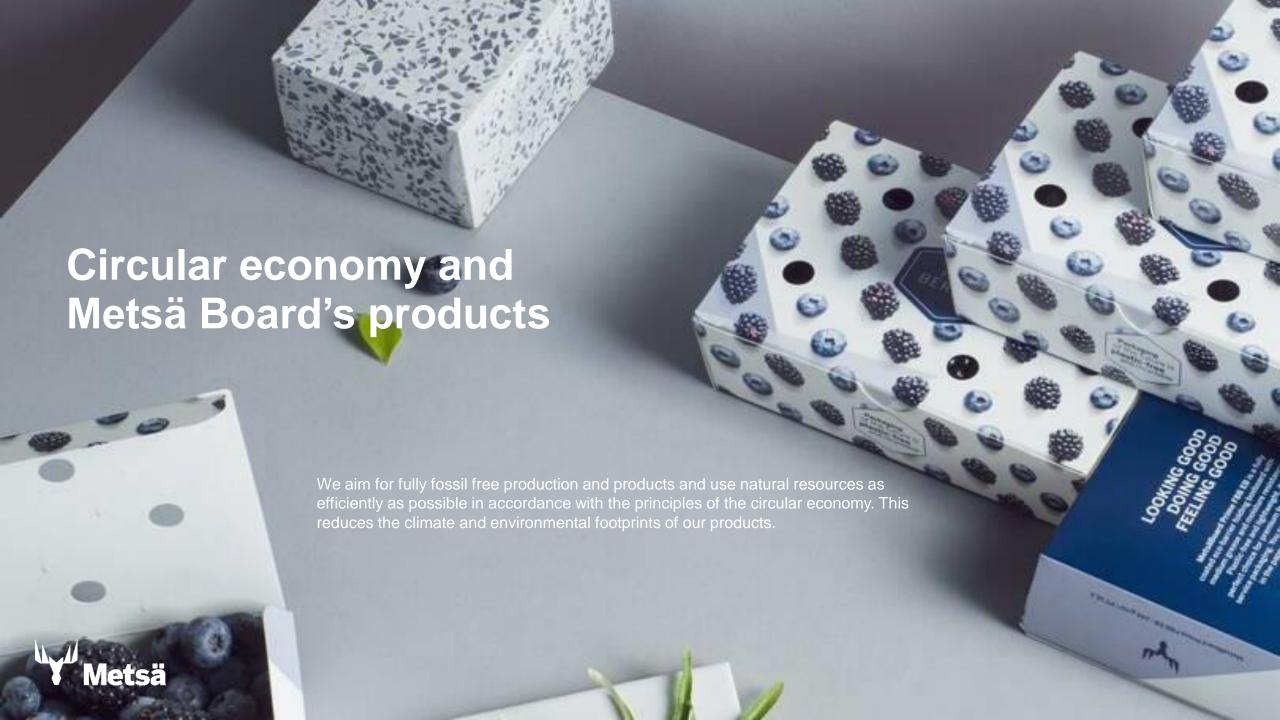
Principle 10: Businesses should work against corruption in all its forms, including extortion and bribery.

Material topics are reported in line with common frameworks

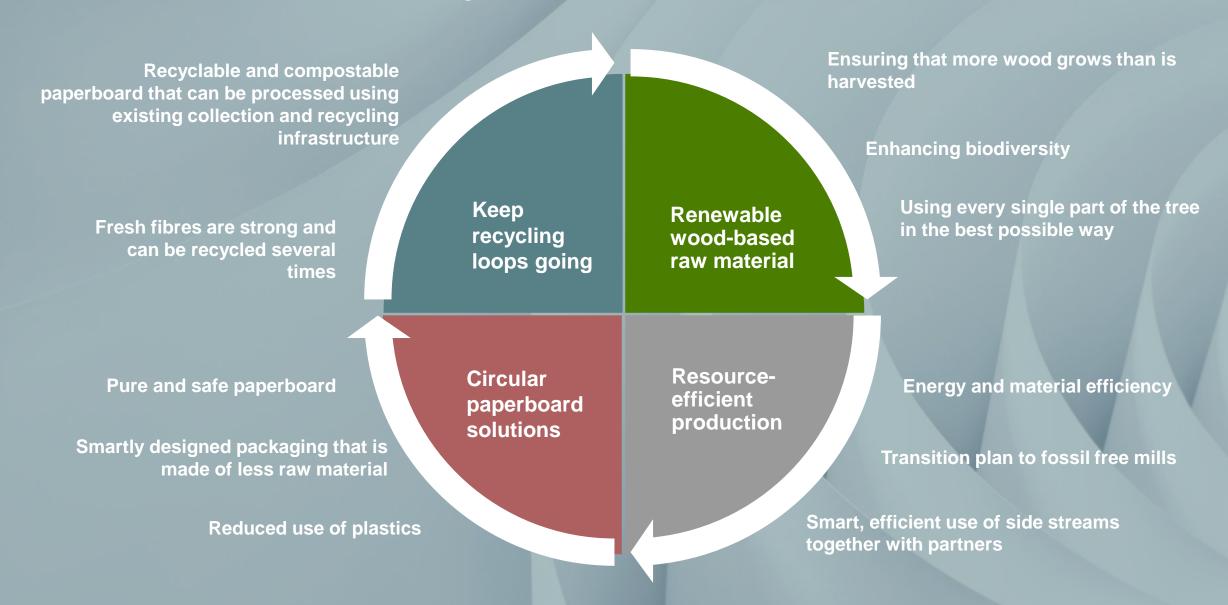
- From 2024, Metsä Board is bound by the reporting requirements of the EU's Corporate Sustainability Reporting Directive (CSRD) and the European Sustainability Reporting Standards (ESRS)
- These standards, which cover general, environmental, social and governance aspects of sustainability, will already form the basis for the company's 2023 sustainability disclosure
- Metsä Board's Sustainability Statement 2023 will be published as part of the Report of the Board of Directors, and it will be available on the company <u>website</u> during Q1/2024
- The disclosure will include links to separate appendices covering the GRI Content Index, SASB Content Index and reporting according to the TCFD's recommendations







The circular economy at Metsä Board



Our paperboards contribute to circular bioeconomy

- Packaging is needed to protect the product and to reduce wastage
- Packaging accounts for only few percent of the total environmental impact of a food product's entire life cycle
- Paperboard is widely collected for recycling and thus returned to the recycling loop
- Fresh fibres are needed to keep the recycling loop ongoing

- 1. Design out waste and pollution
- 2. Keep products and materials in use
- 3. Regenerate natural systems

Three principles of the Circular Economy, source Ellen MacArthur Foundation

Fresh and recycled fibres are equally good in terms of the circular economy

82%

of paper and paperboard packaging is recycled

100%

recovery of wood fibres
is not possible because
part of the fibre is lost
during a cycle, or is
contaminated

Fresh fibre is needed in the recycling loop to maintain quality and strength, and to keep the loop ongoing



Production of folding boxboard needs less wood compared to other grades

Metsä Board folding boxboard (70% BCTMP, 30% chemical pulp)



Solid bleached board (100% chemical pulp)







Every day consumers use ~160 million packages made of Metsä Board's folding boxboard

By reducing paperboard weight by 1%, material savings equivalent to 1.6 million packages per day can be achieved



Paperboard provides an alternative to plastics

PET

- · Made of fossil oil-based materials with fossil-based energy
- Recycling rate of PET is low
- In the EU, recycling rate is 38% for plastic packaging and 82% for paper packaging (Eurostat, 2020)

MetsäBoard Prime FBB EB

- Made from renewable fresh wood fibre with a high share of fossil free energy
- Easy to recycle, biodegradable and compostable
- The climate impact of a paperboard box for cherry tomatoes is ca. 80% smaller than that of a box made from recycled PET (Natural Resources Institute Finland, 2019)





Brand owners' commitments and consumers' preferences favour fibre-based packaging

- Several brand owners have committed to get rid of unnecessary plastic and to have 100% reusable, recyclable and compostable (plastic) packaging by 2025
- Paper/cardboard is the preferred packaging material by consumers

Reduce



Recycle



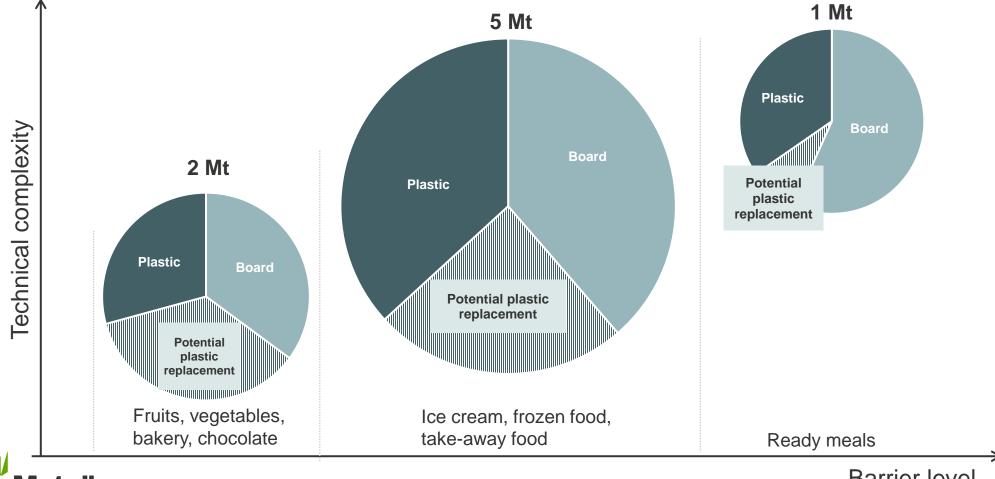
Compost





Plastic replacement potential roughly 2 million tonnes

Cartonboard and rigid plastic packaging market size in selected food categories, excluding cupstock and liquid packaging





Our 2030 sustainability targets

















Environment



We safeguard biodiversity

We mitigate climate change and reduce emissions

We use natural resources efficiently and reduce waste



Social

We do the right thing We promote safety and wellbeing at work



Governance

We know the origin of our raw materials
We favour responsible suppliers in our procurement



Environment



We mitigate climate change.

We reduce fossil-based carbon dioxide emissions and the use of fossil-based raw materials and packaging materials. We ensure that carbon is stored in forests and wood products.

Measures for the 2030 targets

- We only use fossil free fuels and purchase fossil free electricity
- We only use fossil free raw materials and packaging materials
- We increase forest management
- We recommend continuous cover forestry in peatlands
- We increase the production of wood products that store carbon for a long time

Indicators

• 0 t	fossil-based carbon dioxide emissions,
	scope 1 and 2

•	100%	fossil free raw materials and packaging
		materials

•	+30%	forest regeneration and young stand
		management* (MG)

- +50% forest fertilisation* (MG)
- +30% share of continuous cover forestry in peatland forests (MG)
- +30% amount of carbon stored in wood products** (MG)
 - * hectares, compared to 2018
 - ** CO₂ equivalent compared to 2018 (MG) target is set at Metsä Group level

Metsä Board's 1.5°C aligned Science Based target



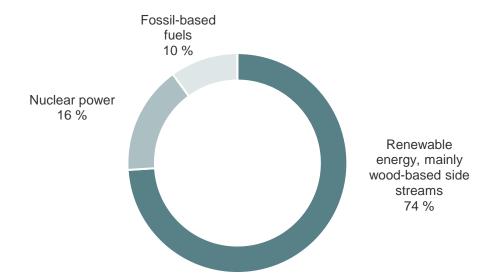




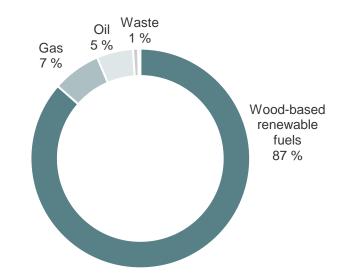


90% of total energy use is fossil free

Total energy consumed Total 7.6 TWh



Fuel consumption Total 5.8 TWh



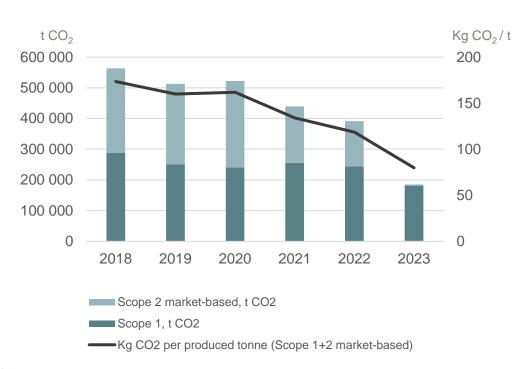
- Fuel consumption includes own energy generation and process fuels
- In 2023, Metsä Board did not use any coal as energy source (scopes 1&2)
- Peat represented 0.3% of total fuel consumption



Metsä Board has reduced its fossil-based CO₂ emissions per tonne by 54% since 2018

Target is to reduce fossil-based CO_2 emissions by 100% by the end of 2030

Fossil-based CO₂ emissions, Scope 1+2

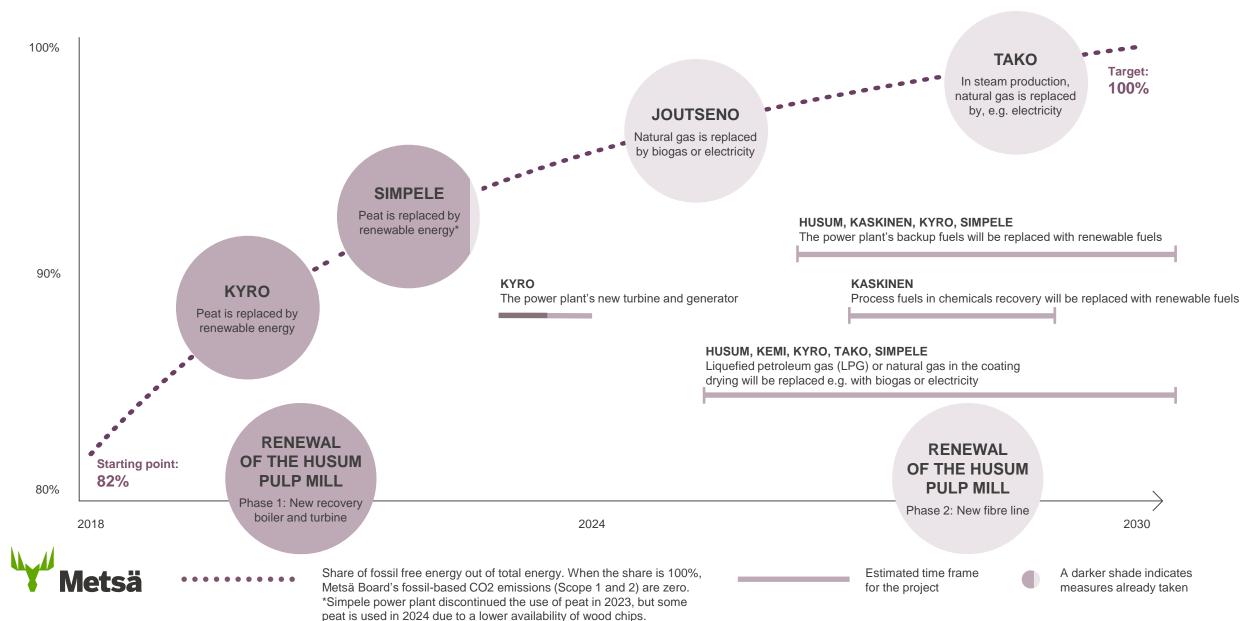


Emission allowances

- Metsä Board has received emission allowances in accordance with the EU Emissions Trading System
- During the past years, the number of free allowances received have exceeded the company's annual fossil-based CO2 emissions.
 The surplus have been partly sold to the market
- Unused emission allowances do not have an impact on income statement or balance sheet.
 Metsä Board discloses the possible sales of emission allowances in its interim reports



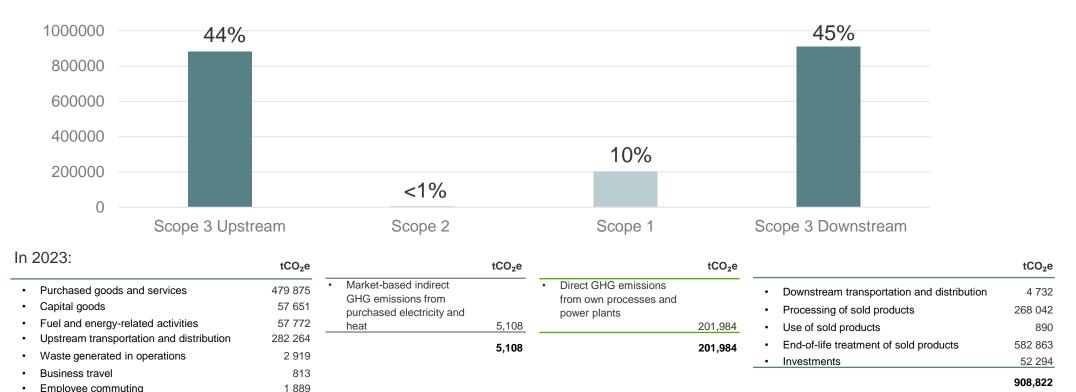
Transition plan to fossil free mills by the end of 2030



Value chain emissions are addressed with Science Based Targets and joint targets with suppliers

Total greenhouse gas emissions (Scope 1, 2, and 3) ca. 2.0 million tonnes CO_{2e}

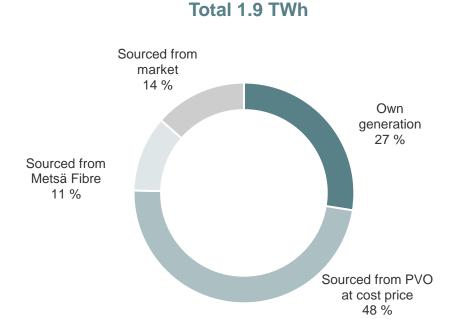
883,184



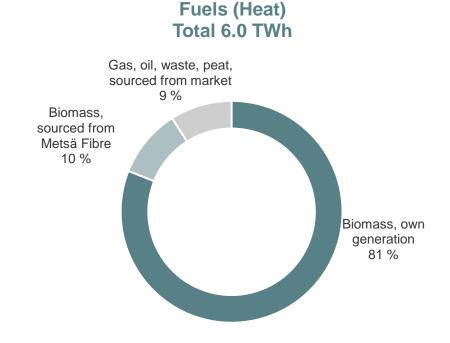


Metsä Board's self-sufficiency in energy is 90%

Energy consumption by sourcing method



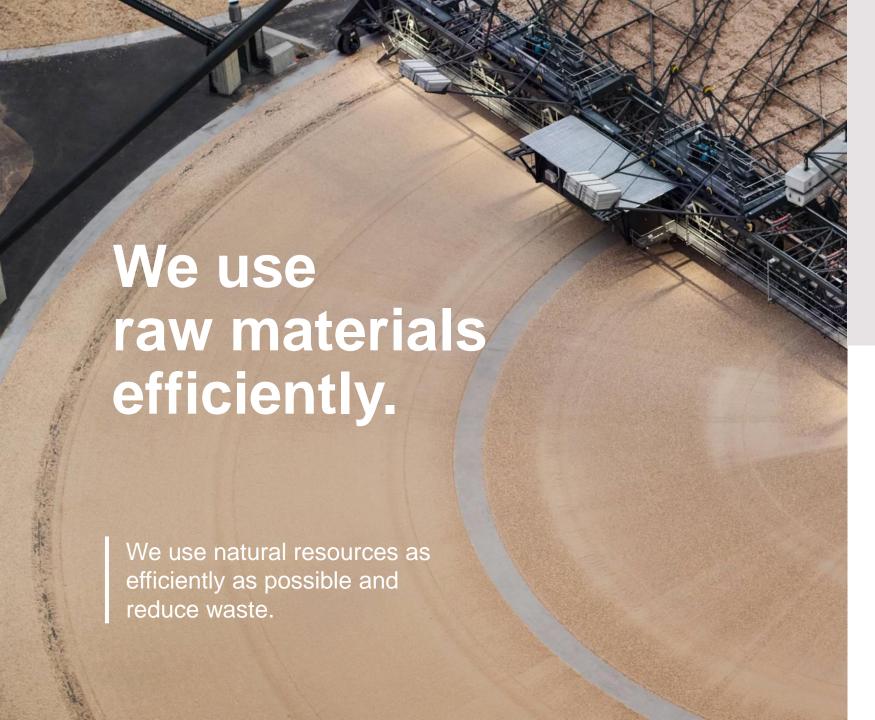
Electricity





Based on GRI calculation

Based on primary energy calculation



Measures for the 2030 targets

- We use less water at our mills
- We improve energy efficiency
- We utilise all our process waste

Indicators

- 35% reduction of process water consumption per tonne of production*
- 10% improvement in energy efficiency**
- 0 t of process waste sent to landfills

^{*} m³/t, compared to 2018

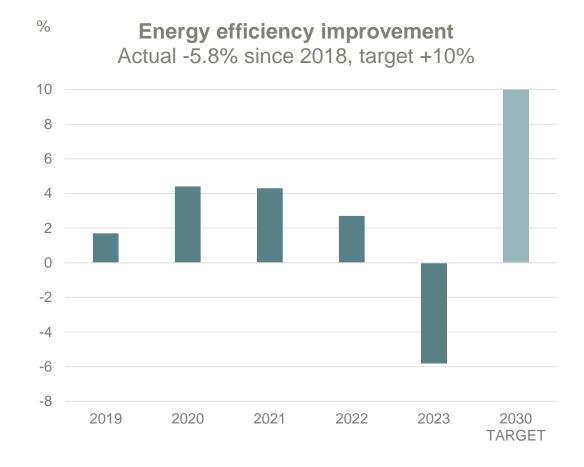
^{**} compared to 2018

Improvement in energy efficiency supports the target towards fossil free production

The production curtailments caused by the market situation and investment shutdowns weakened energy efficiency in 2023.

Key actions in 2023

- Kemi paperboard mill's development project, completed in 2023, will reduce the mill's energy use by 5 per cent per tonne of paperboard produced
- Other energy efficiency measures saved 30 GWh of energy, including the optimisation of energy use in drying at the Joutseno BCTMP mill and the Äänekoski paperboard mill, for example





Our target is to reduce process water use per product tonne by 35% in 2018–2030

The production curtailments caused by the market situation and investment shutdowns weakened the efficiency of process water use in 2023.

Key actions in 2023

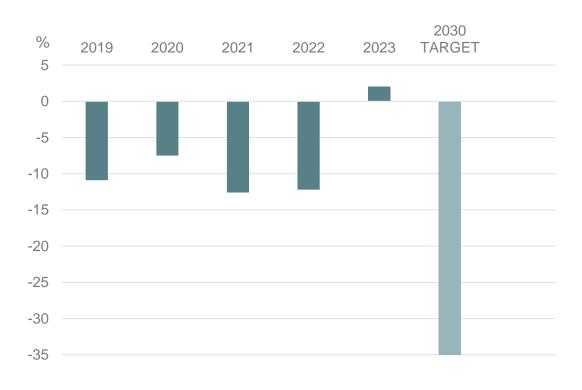
- Kemi paperboard mill's development project, completed in 2023, will reduce the mill's water use by 40 per cent per tonne of paperboard produced
- Water recycling was enhanced at the Husum pulp mill
- The renewal of the pulp and white-water system continued at the Simpele paperboard mill, the goal being to reduce the use of process water and energy

All our production units are located in areas at low water risk*

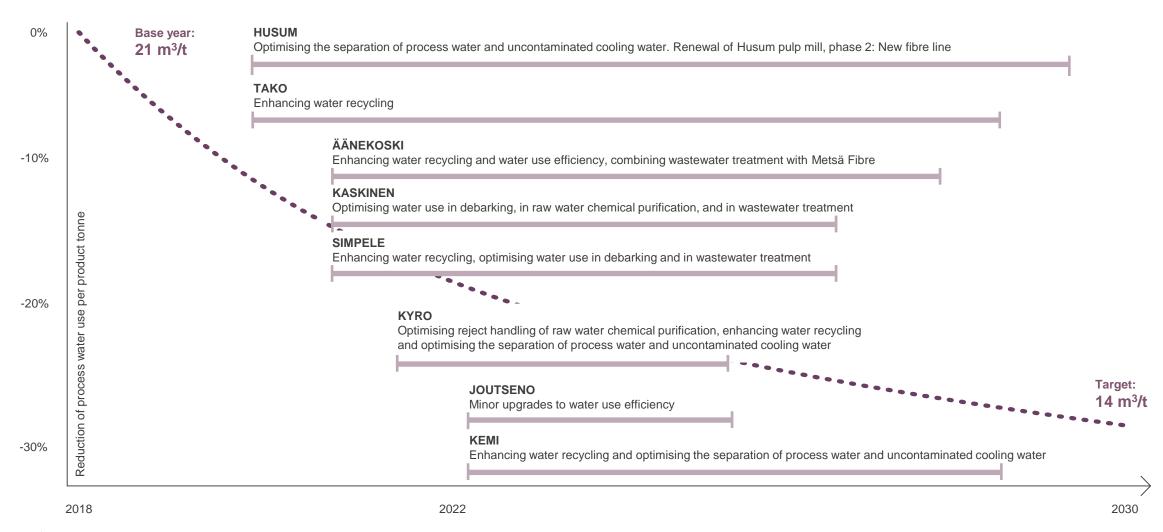
- Nearly 100% of our water use is surface water
- Our operations do not prevent or weaken any other parties' access to water
- All process waters are carefully purified before released back to nature
- Efficient use of water helps reduce energy use and, in turn, costs and CO2 emissions

*Low to low-medium water stress and overall water risk (WRI Aqueduct Water Risk Atlas)

Reduction of process water use per product tonne +2.0% since 2018, target -35%



Transition plan to reduced process water use by the end of 2030





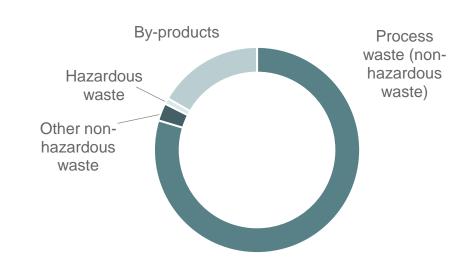
Our target is that zero tonnes of process waste will be sent to landfills by the end of 2030

By-products include e.g. ash used as fertilizer, and recovered lime

fractions

Our operations also generate municipal and construction waste as well as a small amount of hazardous waste

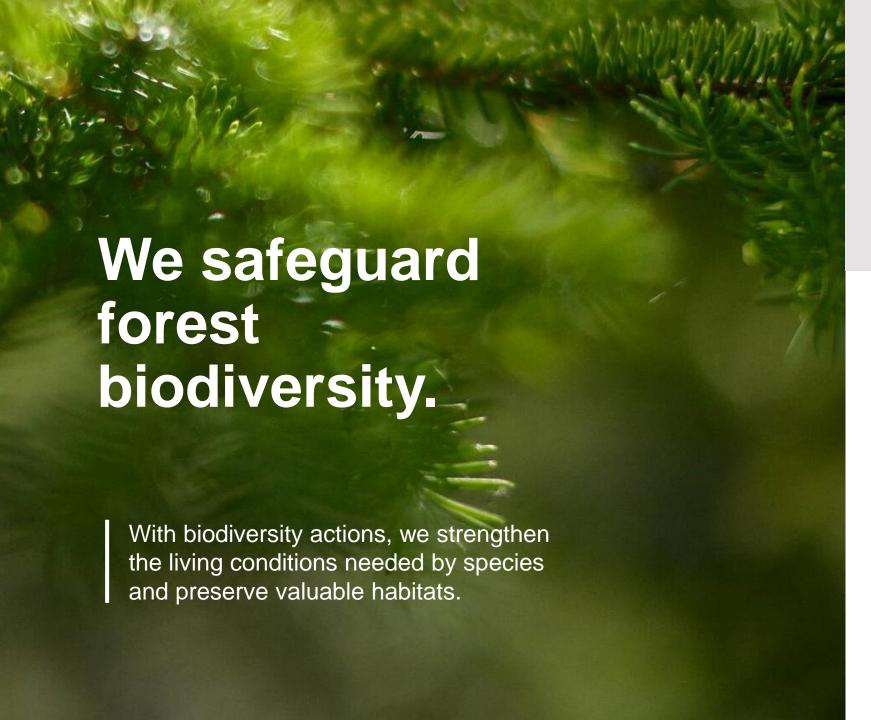
Waste and by-products in 2023 Total 149 kt



Process waste

- 49% for material utilisation
- 50% for energy use
- 1% to the landfill (target 0 tonnes)





Measures for the 2030 targets

- We add decaying wood to forests
- We diversify tree species in forests
- We protect valuable habitats for threatened species

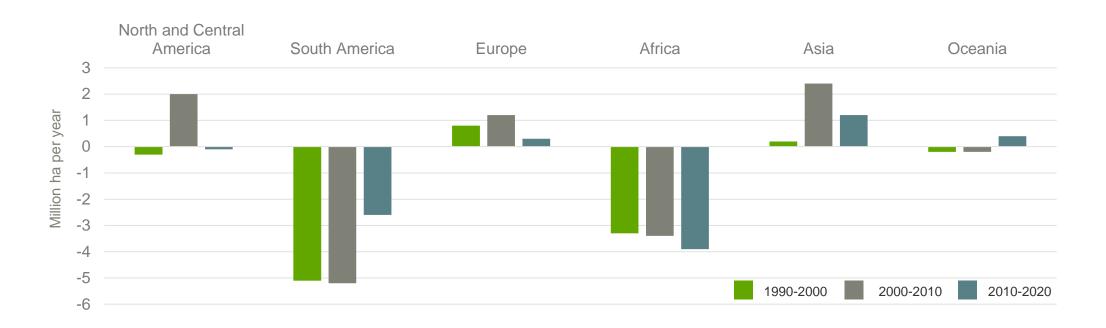
Indicators

- 100% of regeneration felling sites have retention trees
- 100% of harvesting sites have high biodiversity stumps
- 0% of young stand management sites have only spruce remaining
- 10,000 measures to increase natural biodiversity
 - Nature management for herb-rich forests and ridges
 - Burned retention tree groups
 - Water protection
 - New Metso protection areas for our owner members
 - FSC nature site service contracts

All these targets are set at Metsä Group level

Development of world's forests differs regionally

Annual forest area net change by decade and region, 1990–2020



^{*} According to the regional breakdown used in FRA 2020, Europe includes the Russian Federation





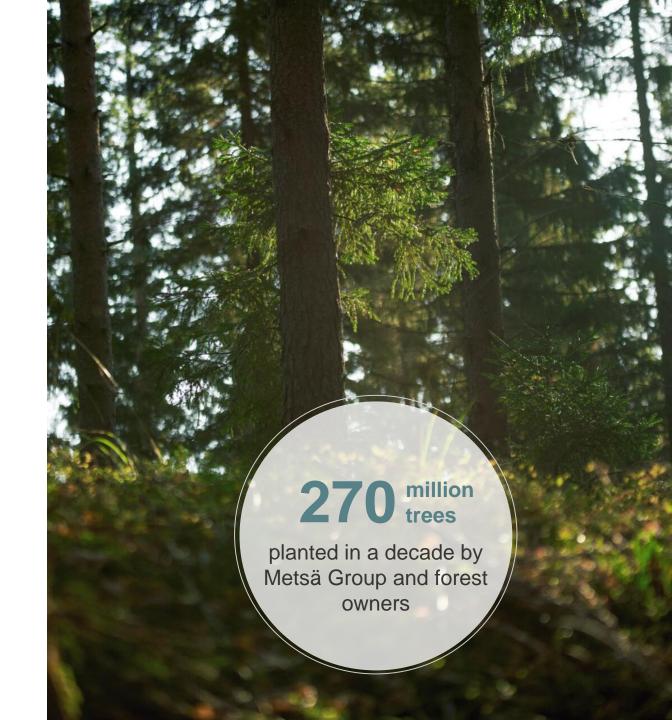
Finland - Reforestation instead of deforestation

For every harvested tree we plant four new seedlings



Forests are a carbon sink

- Growing trees bind more carbon and help mitigate climate change
- Good forest management plays a key role for maintaining forests as carbon sinks
- It is important to get forests growing again as soon as possible after harvesting
- For every harvested tree new seedlings are planted





Protecting biodiversity

- Forests have an important role in providing habitats (living environments) to diverse animal species
- Taking care of biodiversity is part of forest management, i.e. retention trees, biodiversity stumps, buffer zones and preservation of standing and fallen decayed wood
- There are actions required by law, by forest certifications schemes as well as voluntary actions
- Finland has the highest share of strictly protected forests in Europe





Regenerative forestry

- Regenerative forestry means boosting natural assets and economic growth side by side
- The principles of regenerative forestry are a continuation to Metsä Group's ecological sustainability programme for safeguarding biodiversity
- They will help develop new measures for mainstreaming best forest management practices
- As a result, Finnish forests combat climate change and are more resilient to climate change, extreme weather phenomena and risks of damage
- Our goal is to ensure that Finnish forest assets continue/transfer in a more vibrant, diverse and climate resilient condition from one generation to the next





Forest management plan as a part of Metsä Group's regenerative forestry

AT TYPICAL FOREST STAND



More diverse tree species composition

- Increasing the proportion of broadleaved trees
- Mixed forests
- 80 % of tree species outside purchase



Increased dead wood volumes

- Retention trees and tree groups
- Buffer zones
- Biodiversity stumps



More diverse forest structure

- Continuous cover harvesting
- Retention tree groups
- Valuable habitats
- Protective thickets

AT BIODIVERSITY HOT SPOT



Protected valuable habitats e.g.

- Brooks
- Springs
- Fertile bogs
- Cliffs
- Flood habitats



Habitat restoration at threatened species hot spots

- Herb-rich forests
- Esker sunny slopes
- Fire habitats

Management plan for typical forest stands



Separate management plan at threatened species hot spots

Biodiversity hotspots are ecologically unique regions that are exceptionally rich in species, and are thus priority targets for nature conservation





We do the right thing.

We do the right thing and respect others.
We promote safety and wellbeing at work.



Measures for the 2030 targets

- We promote a culture of doing the right thing and job satisfaction
- We address shortcomings across our value chain
- We recruit anonymously
- We support the opportunities of women to advance to leader positions
- We promote safety at work

Indicators

AAA job satisfaction at very good level

100% anonymous recruitment for open positions

• >30% women in leader positions

0 accidents at work

Metsä for all vision

We are committed to ensuring that personal characteristics, such as gender, age, ethnic background, sexual orientation or disability do not influence anyone's chances of success at work. Diversity, equality and inclusion are promoted and the progress is measured with set targets.

Our focus areas include:

Diversity

- Recruitment practices that promote diversity, e.g. anonymous recruitment
- Ensuring international talent in the organisation

Equal opportunities and gender equality

- Increasing the number of women on different organisational levels
- Ensuring pay equality
- Introducing gender-neutral job titles

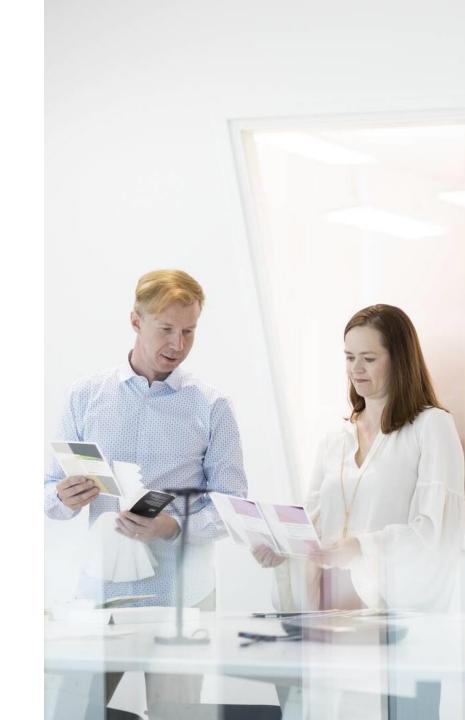
Inclusion and cultural change

- Increasing the competence and awareness of personnel
- Supporting cultural change via communication
- Promoting work-life balance

We encourage women to advance to leader positions

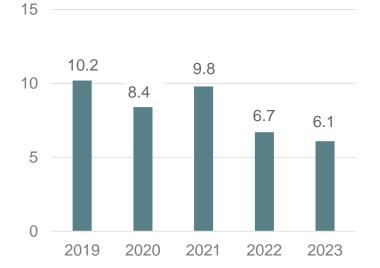
- Our target is that at least 30% of management positions (VP, SVP and CEO) are held by women by the end of 2030
 - In 2023, the result was 21%
 - At the same time the share of women within all Metsä Board personnel was 22%
- We rectify unjustifiable pay gaps between women and men and promote equality through training programmes targeted at all personnel



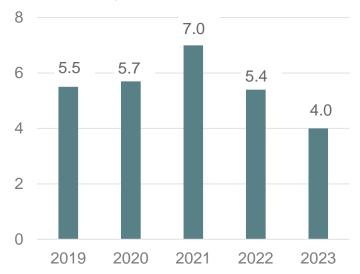


Safety continues to be our top priority

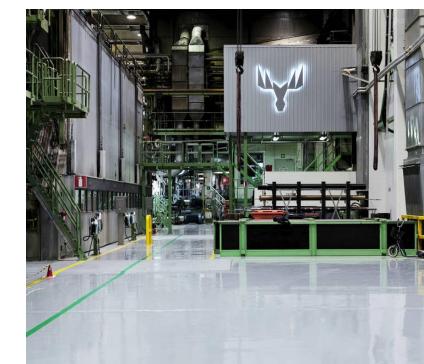
TRIF
total recordable injury frequency
per million hours worked



LTA1F
lost-time accident frequency
per million hours worked

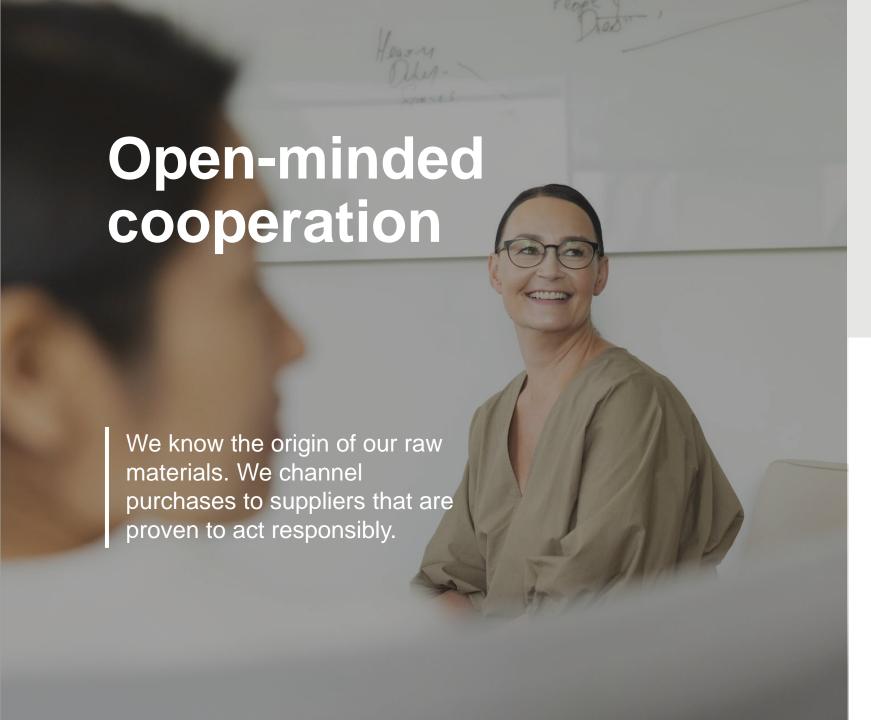












Measures for the 2030 targets

- We operate responsibly
- We examine the origin of our raw materials
- We increase the share of certified wood in our operations
- We favour responsible suppliers
- Shared sustainability targets with our most important suppliers

Indicators

•	100%	implementation of ethics
		barometer measures

• 100% traceable raw materials

• >90% share of certified wood

 100% suppliers' commitment to the Supplier Code of Conduct

 100% supplier surveys and audits with core suppliers

100% shared sustainability targets with our partner suppliers

We operate responsibly

- We require our personnel to comply with applicable legislation, and to act honestly and make ethically sound decisions
- 98% of our personnel have completed the training on the Code of Conduct
- Every other year we conduct an ethics barometer, aimed at the entire personnel
 - 100% of the development measures defined based on the previous ethics barometer were implemented in 2023







Our target is to have 100% traceable* raw materials and packaging materials by the end of 2030. The actual in 2023 was 97%

*Know the origin, at least the country of manufacture, of raw materials and packaging materials (by spend)



All wood used by Metsä Board is traceable and meet the requirements of the PEFC and FSC® chains of custody*

11%

of all the forests
in the world
are certified

91%

of all sourced wood by **Metsä Board** was certified in 2023 >90%

Metsä Board's target of the share of certified wood by 2030



Wood is Metsä Board's main raw material

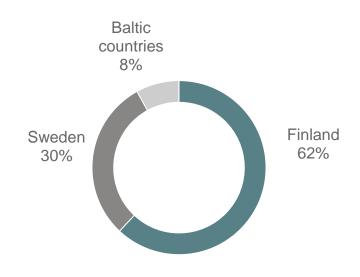
Wood usage

- Wood represents 25% of Metsä Board's total costs¹⁾
- In 2023, Metsä Board used 6.3 million m³ wood for its products^{1),}
 of which 91% was certified (PEFC, FSC)

Wood supply

- Metsä Group is responsible for Metsä Board's wood sourcing
- Metsä Group's total annual wood sourcing is ~30 million m³
- Majority of wood sourced in Finland comes from the owner members of Metsäliitto Cooperative, roughly 90,000 private forest owners
- In Sweden Metsä Board has a long-term wood supply agreement with Norra Skog, a co-owner with a 30% stake in the Husum pulp mill

Wood sourcing areas in 2023





) Includes own wood purchases for BCTMP and wood used for pulp that Metsä Board buys from Metsä Fibre. Share of certified wood fibre has been calculated based or this figure. All wood use, including also energy use (e.g. wood chips), was 6.5 million m³. Wood sourcing areas have been calculated based on this figure.

Process for ensuring the responsibility of our suppliers

The process for suppliers of services and raw materials other than wood



 Signing of Supplier Code of Conduct

- Know Your Business Partner Process
- Country risk analysis
- Industry specific risk analysis

- Further assessments and audits of core suppliers and risk suppliers
- → Cooperation, corrective actions and follow-up
- → Joint sustainability targets with nine partner suppliers



Sustainability data



Production adjustment measures reflected in emissions, energy efficiency and water use

TARGET

set for 2030

ACTUAL

2023

Accidents at work TRIF, TARGET 0

ACTUAL 6.1 (2022: 6.7)



Certified wood fibre TARGET >90%

ACTUAL 91% (2022: 83)



Fossil-based CO₂ emissions¹⁾

TARGET 0 (Scopes 1 and 2)

ACTUAL Scopes 1 & 2: 181kt & 4kt (2022: 244kt/147kt)



Process water use²⁾

TARGET -35%

ACTUAL +2.0% (1–12/2022: -12.2)



Energy efficiency²⁾

TARGET +10%

ACTUAL -5.8% (1–12/2022: +2.7)



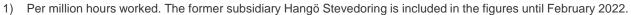




Key sustainability figures

Updated quarterly in Metsä Board's Interim reports and Financial statement bulletin

	Q4 2023	Q4 2022	Q1–Q4 2023	Q1–Q4 2022	Target 2030
Total Recordable Incident Frequency TRIF ¹⁾	6.2	4.0	6.1	6.7	0
Share of certified wood fibre, %	95	87	91	83	>90
Share of fossil free energy of total energy consumption ²⁾ , %	-	-	90	85	100
Direct fossil-based CO2 emissions (Scope 1), t	42,969	70,248	181,096	244,139	0
Indirect fossil-based CO2 emissions (Scope 2), t 3)	-	-	3,617	147,081	0
Energy efficiency improvement ⁴⁾ , %	-5.8	+2.7	-5.8	+2.7	+10
Reduction in process water use ⁴⁾ , %	+2.0	-12.2	+2.0	-12.2	-35



²⁾ Reported annually.



³⁾ Market-based, reported annually.

⁴⁾ Change from base year 2018, per tonne produced, rolling 12 months

Sustainability targets for 2030 and actuals

TARGET	2030 TARGET	2023 ACTUAL	2023 PROGRESS
E – ENVIRONMENT			
Safeguarding biodiversity and the ecological sustainability of forest use			
MG: Retention trees on regeneration felling sites, %	100	96	•
MG: High biodiversity stumps on harvesting sites, %	100	92	•
MG: Spruce as the only tree species after young stand management, %	0	25	•
MG: Measures promoting biodiversity, number	10,000	816	•
2. Mitigating climate change and reducing emissions			
Improvement in energy efficiency from the 2018 level, %	+10	-5.8	•
Fossil-based carbon dioxide emissions (Scope 1 + Scope 2 market-based), t	0	184,713	•
Share of target group suppliers with targets set in accordance with the SBTi by 2024 (Scope 3), %	70	19	•
Fossil free raw materials and packaging materials, share of dry tonnes, %	100	98.8	•
MG: Amount of forest regeneration and young stand management from the 2018 level, %	+30	+14	•
MG: Amount of forest fertilisation from the 2018 level, %	+50	-26	•
MG: Share of continuous cover forestry in peatland forest regeneration, %	30	17	•
MG: Amount of carbon stored in wood products from the 2018 level, %	+30	-21	•
3. Resource efficiency and sustainable production			
Reduction in process water use per produced tonne from the 2018 level, %	-35	+2.0	
Process waste delivered to landfills, t	0	1,164	•
S – SOCIAL RESPONSIBILITY			
4. Respecting everyone and doing the right thing			
Anonymous recruitment for vacancies open to all, %	100	72	
Women in management positions, %	>30	21	•
5. Promoting safety and wellbeing at work			
Total recordable incident frequency, own employees (TRIF) ¹⁾	0	6.1	•
Employee job satisfaction	AAA	A+	•
G – GOVERNANCE			
6. Innovation and open-minded cooperation / 7. The significance of forest-based bioeconomy to society			
Implementation of ethics barometer measures, %	100	100	•
Traceability of raw materials, share of total purchases, %	100	97	•
Share of certified wood fibre, %	>90	91	•
Suppliers' commitment to the Supplier Code of Conduct, share of total purchases, %	100	99.0	•
Supplier assessments and audits of core suppliers, %	100	68	•
MG: Joint sustainability targets with partner suppliers, %	100	100	•



Progress in 2023 compared with the previous year.

- Exceeds target (significant progress)
- On target (progress as planned)
- Short of target (no progress or weaker progress)

MG= Target set at the level of Metsä Group

Contact information

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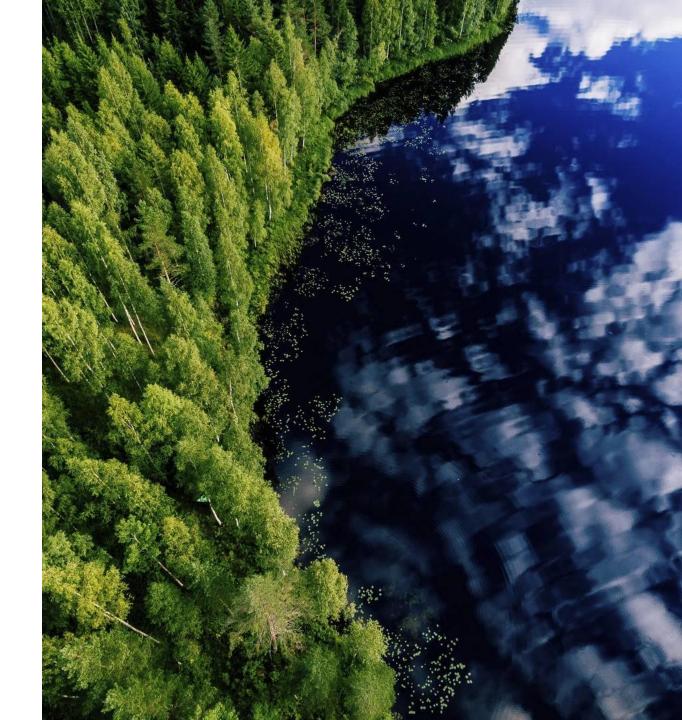
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Climate change creates risks

According to TCFD*	Risk	Impacts	Metsä Board's response
Transition risks arising from the transition into a low-carbon economy	 Increased regulation Market and reputation risk 	EU regulation may steer the future use of forests Energy regulation Emissions allowances Carbon pricing Requirements for new technology The supply and demand of products in a low-carbon economy may differ from what it is currently	Metsä Board sources wood from sustainably managed forests, where annual growth clearly exceeds the removal. For every harvested tree new seedlings are planted A transition to the use of 100% fossil free energy in production, replacing fossil oil-based raw materials and increasing the efficiency of energy and water use Developing new products that comply with the circular economy and have a lower carbon footprint
Physical risks such as changes in temperatures and precipitation, and they will materialise if climate change is not mitigated.	 Extreme weather phenomena (acute risk) Rising average temperature and changes in precipitation (chronic risk) 	 Weakened availability of wood: mild winters complicate harvesting increase of insects damage caused by storms Reduced availability of the process water needed by mills resulting to production breaks	Metsä Board has high availability of Northern European wood through its unique value chain and owner base Sustainable forest management based on regenerative forestry supports the growth and biodiversity of forests Resource efficiency in the use of wood, water and energy All Metsä Board's mills are located in Finland or Sweden with ample water resources. The company has a target to reduce the use of process water and enhance the recycling of water within the process

