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Metsä Board benefits from Metsä Group's value chain

- High availability of Northern wood
- Good control of wood raw materials from forests to pulp and board production
- Consistent quality of fibres that are tailor-made for the end products

METSÄ GROUP

METSÄLIITTO COOPERATIVE,

Group's parent company owned by 100,000 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% Metsä Board 24.9% Itochu Corporation 25.0%

METSÄ BOARD

PAPERBOARD

Holding

Metsäliitto Cooperative 48% share of votes 67%

METSÄ TISSUE

TISSUE AND GREASEPROOF PAPERS

Holding

Metsäliitto Cooperative 100%

METSÄ SPRING INNOVATION COMPANY



Sustainability targets for 2030

- Our sustainability themes and targets are aligned with reaching the Sustainable Development Goals (SDGs) set by the United Nations.
- We focus especially on seven goals to which we contribute the most through our operations.











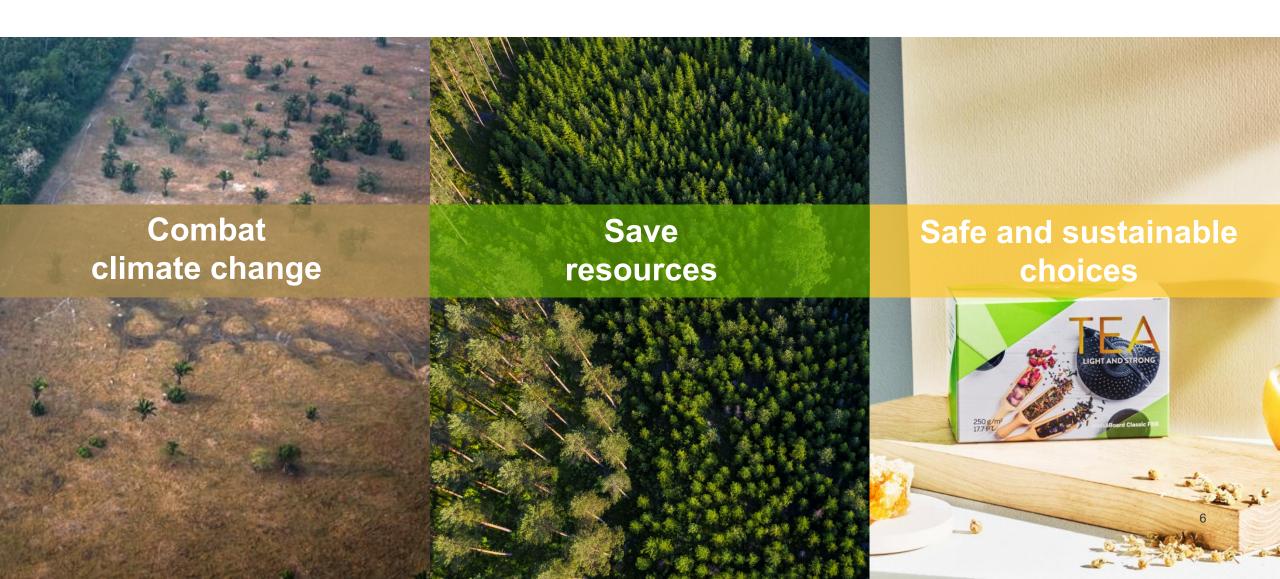








Our approach to sustainability



Combat climate change





83% of Metsä Board's total energy consumption was fossil free in 2020 We have reduced our CO₂ emissions by 52% since 2009



Metsä Board's industry-leading target



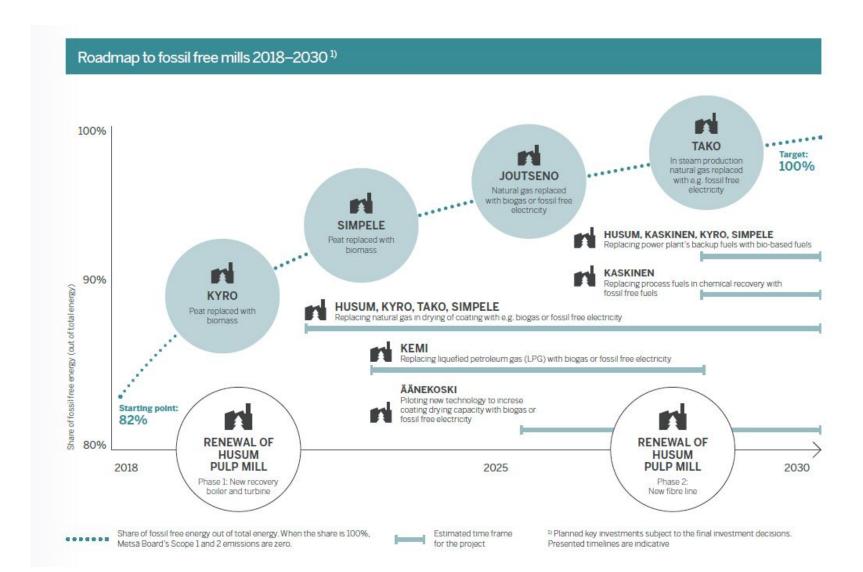


Metsä Board's greenhouse gas emission reduction targets meet the most ambitious goals of the Paris Agreement limiting global warming to 1.5 °C.





Roadmap to fossil free mills 2018–2030

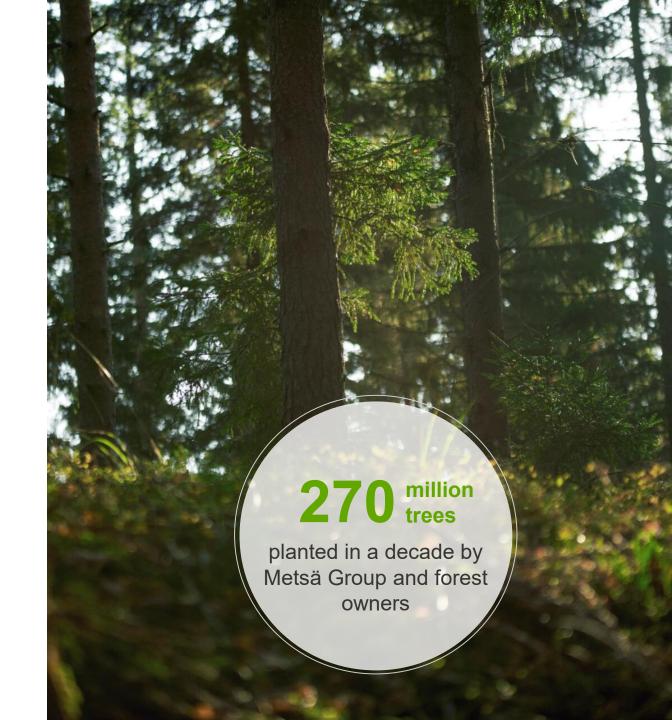


All mills fossil free by 2030



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





Finland - Reforestation instead of deforestation

For every harvested tree we plant four new seedlings



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 protected forests in Europe







All wood we use comes from sustainably managed forests – our paperboards are available with PEFC™ or FSC® certification

PEFCTM/02-31-92, FSC®-C001580

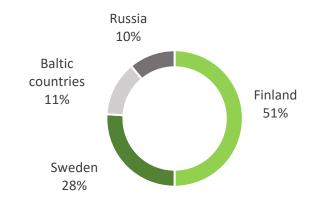




Wood is Metsä Board's main raw material

- Wood represents roughly 27% of Metsä Board's total costs (including the wood cost of pulp purchased from Metsä Fibre)
- Sourcing function is centralized in Metsä Forest
- Majority of wood sourced in Finland comes from the members of Metsäliitto Cooperative
- In 2020 Metsä Board sourced 8.2 million m³ wood
 - includes the wood bought to Metsä Board pulp/BCTMP mills (5.3 Mm³) and the wood used in pulp bought from Metsä Fibre (2.9 Mm³)

Metsä Board's wood sourcing areas in 2020







Save resources



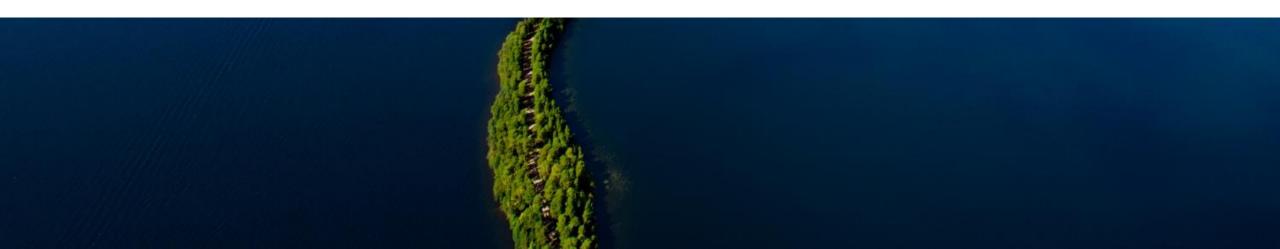
99% of the water we use is returned back to the nature

- Metsä Board operations are located in areas with abundant water resources
 - We do not operate in high water stress areas
- Our operations do not prevent or weaken any other parties' access to water, for example agriculture
- We only use surface 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





We have already reduced our water use by 26% since 2010. Our new target is to reduce it by 30% in 2018–2030.



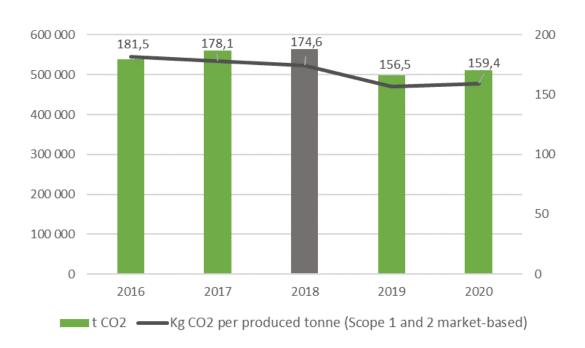




We exceeded our previous reduction targets and have set new targets for 2018-2030

CO₂ emissions per product tonne (kg/t) (Scope 1 and 2 market-based) Target -100%

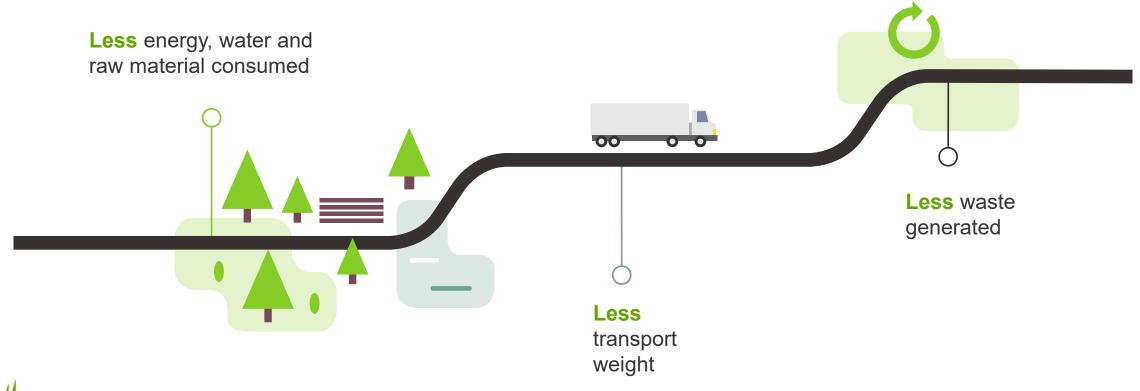
Process water use per product tonne (m³/t) Target -30%







Lightweight paperboards help reduce environmental footprint across the value chain





Production of folding boxboard needs less wood and leave more trees standing

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



Solid bleached board (100% chemical pulp)

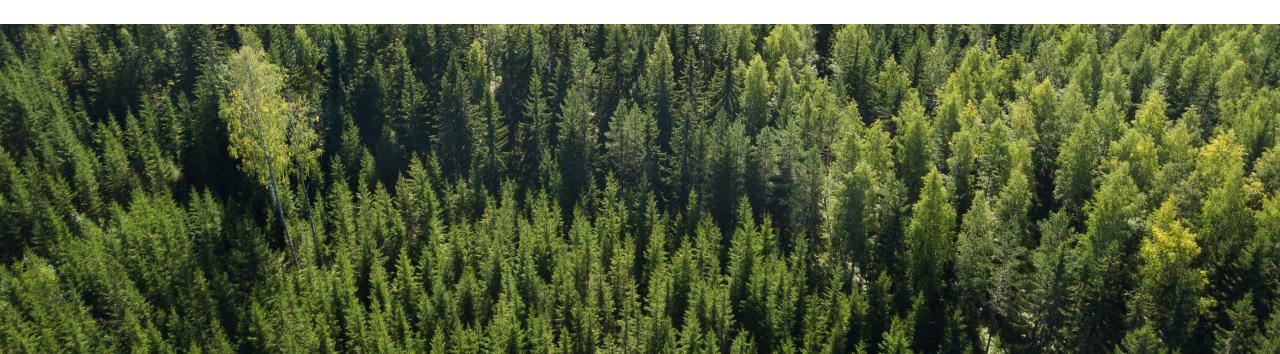






Consumers daily use approximately 160 million packages made of Metsä Board's folding boxboard.

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



Safe and sustainable choices



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 Mc Arthur Foundation

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

Recycling rate of paperboard and paper packaging is already high

83%

of paper and board packaging is collected for recycling in Europe*

100%

recovery of wood fibres to 100 % 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



Fossil or non-fossil-based energy

Nordic fresh fibre paperboard production uses mainly renewable energy

In Central and Southern Europe, the main energy sources are still fossil-based

2

Efficient material use, light-weighting

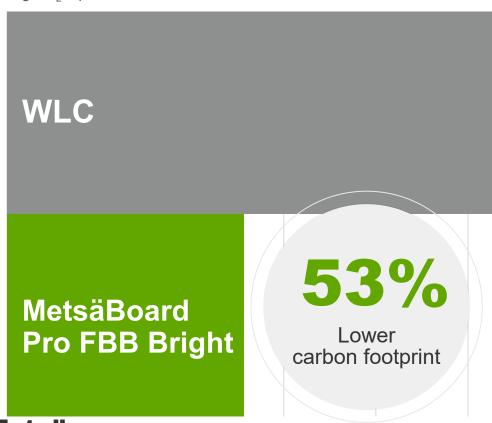
Using less material to produce a required type of packaging

Less weight to be transported throughout the supply chain, with lower transportation emissions

Less waste after the product use

Lighter MetsäBoard Pro FBB Bright reduces carbon footprint by 53%

Carbon Footprint * kg CO₂ eq./200 000 cartons



Thanks to
the strength and
bulk of fresh fibre
boards, lighter
basis weights can
be used.



GaBi is a Life Cycle Assessment (LCA) modelling and reporting software. It contains databases of various industrial processes such as material and energy production and transports. GaBi LCA follows the standard ISO 14040 and ISO14044.

Safety – consumers and legislators react to health risks

Consumers

today are more aware of chemicals contained in

recycled fibres and their health effects



Legislation

and various
country-specific
recommendations
increasingly
limit the use of
recycled fibres
in food packaging

Recycling is of utmost importance and recycled fibres are excellent raw materials – but not for packing food.

Fresh fibres are the safest choice.



Examples of innovation areas

Identifying new possibilities for packaging with technology developers



Metsä Board's
Excellence Centre
combines packaging
design and R&D to
boost the development
of paperboard and
packaging solutions of
the future.



Wood-based 3D fibre products to be developed by Metsä Spring and Valmet



Creating new barrier solutions to reduce plastic



Improving recyclability

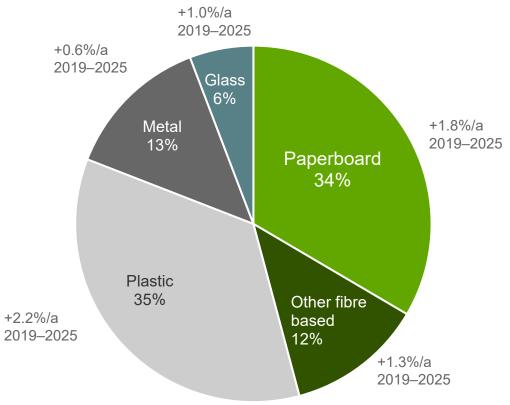
Continuing development of lightweight materials

Paperboard as an alternative to plastics

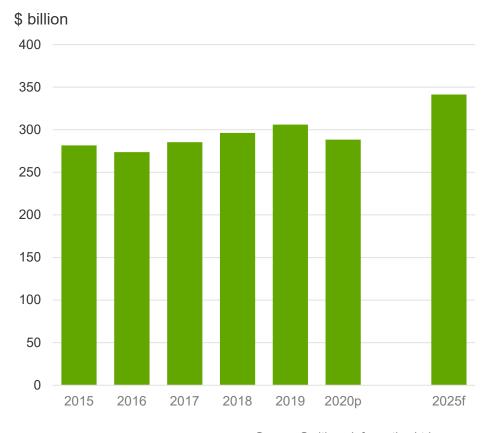


Paperboard packaging grows faster than the total packaging market

The global packaging market size is \$915 billion estimated annual growth in 2019–2025 is 1.7%



Estimated annual growth for paperboard in 2019–2025 is +1.8%





Source: Smithers Information Ltd

Fresh fibre paperboard is an alternative to plastics

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

Reduce



Recycle



Compost





Source: Two Sides: European Packaging Preferences 2020

Metsä Board has developed a paperboard with dispersion barrier coating

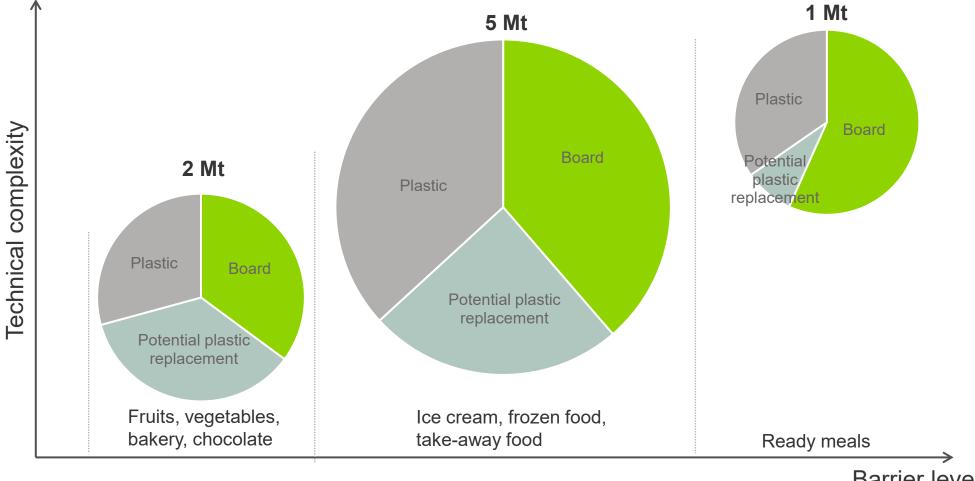
- Medium barrier against grease and moisture
- Lightweight, recyclable, compostable and biodegradable
- Suitable for direct food contact globally
- End-uses: Food service, fresh, dry and frozen food
- Recyclable in paper and paperboard recycling streams
- Helps reduce the use of plastics





Plastic replacement potential roughly 2 million tonnes

Cartonboard and rigid plastic packaging market size in selected food categories





Sustainable business operations



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 recognition 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.



Doing the right thing guides our work

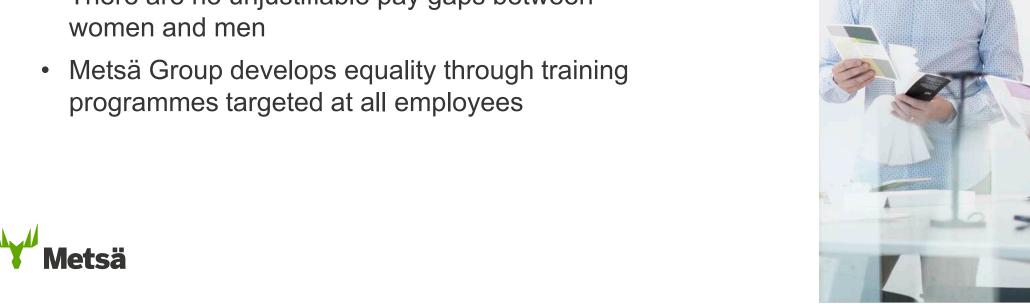
- We require our personnel to comply with applicable legislation, and to act honestly and make ethically sound decisions
- 99% of our personnel have completed the training on the Code of Conduct
- The result of the first Ethics Barometer, aimed at the entire personnel, was 85% in 2020 with the goal being 100%
- The barometer measures how our people perceive ethics at work and helps us identify ethics-related risks





Equality targets were launched in 2020

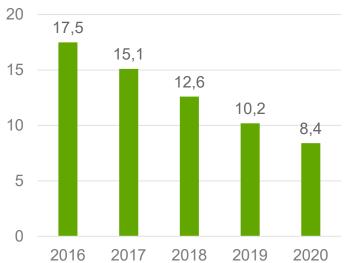
- At least 25% of Metsä Group's executive positisions (Vice President or higher) are held by women by 2025
 - In 2020, the actual in Metsä Board was 19% and
 - the share of women within all employees was 21%
- There are no unjustifiable pay gaps between women and men



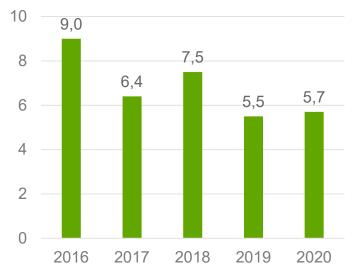


Safety continues to be our priority





LTA1
lost-time accident frequency
per million hours worked









Tools for ensuring the sustainability of our suppliers

Our target: 100% sustainable suppliers



 Signing of Supplier Code of Conduct (96%)

- Country risk analysis
- Category specific risk analysis
- Know your supplier check (84%)
- Self assessment questionnaires and evaluation (54%)
- On-site audits



Corrective actions and follow-up

Our approach to sustainability



Safe and sustainable choices



Fresh fibre paperboards support circular economy

They are pure, have a low carbon footprint and offer an alternative to plastics

Appendix



Key sustainability figures

Updated quarterly in Metsä Board's Interim reports

	2021 Q2	2020 Q2	2021 Q1–Q2	2020 Q1–Q2	2020 Q1–Q4	Target 2030
Total Recordable Incident Frequency TRIF ¹⁾	11.1	8.6	11.5	7.6	8.4	0
Lost-time accidents frequency LTA1F ¹⁾	8.4	4.8	8.6	5.1	5.7	0
Share of certified wood fibre, %	82%	78%	83%	79%	80%	>90%
Energy efficiency improvement ²⁾	+2.1%	+1.6%	-	-	+2.1%	+10%
Reducing use of process water ²⁾	-12.8%	-8.3%	-	-	-7.7%	-30%

¹⁾ per million hours worked

2) change from base year 2018, per tonne produced, rolling 12 months



Source: Metsä Board's January-June 2021 Half-year report

83% of our total energy used is fossil free

Used energy

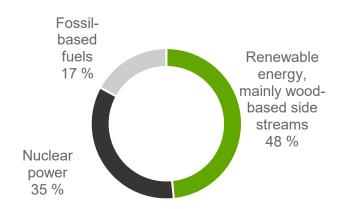
- Target of 100% fossil free mills by 2030 (scope 1 and 2)
 - Husum pulp mill renewal will be a big contributor
 - Replacing peat with biomass and natural gas with biogas/fossil free electricity in our Finnish mills
 - Energy efficiency improvement target of >10% in 2018–2030

Sourced electricity

- Metsä Board's self-sufficiency in electricity is 58%
- Self-sufficiency includes own generation and electricity purchased through PVO holding or from Metsä Fibre
- After OL3¹⁾ starts up, Metsä Board is nearly self-sufficient in electricity in Finland
- Self-sufficiency in Husum integrate increases from 40% to 80% after the first phase of renewal
 - Olkiluoto Nuclear Power Plant
 - 2) Metsä Board's shareholding in PVO (a non-listed public limited liability company, supplying electricity and heat for its shareholders at cost price) is 3.2%,
 -) The 52% share of purchased energy comprises of ~11% from Metsä Fibre and ~42% other purchased energy

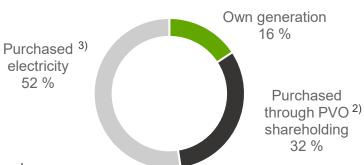
Total energy used in 2020

(total 11.8 TWh as primary energy)



Electricity sourced in 2020

(total 2.4 TWh)





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 Requirements for new technology Market and reputation risk 	EU regulation may steer the future use of forests Energy regulation Emissions allowances Carbon pricing 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	Global warming Extreme weather phenomena	 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 wood through its unique value chain and owner base Sustainable forest management support the growth 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 Task force on Climate-related Financial Disclosures



Sustainability targets for 2030 and performance

Target	Target 2030	2020	2019	2018
WE BRING THE FOREST TO YOU				
Share certified wood fibre, %	>90%	80%	76%	79%
WE OFFER SUSTAINABLE CHOICES				
Share of fossil free raw materials and packaging materials, % of dry tonnes	100%	99.3 %	99.4 %	99.4 %
Share of traceable raw materials, % of total purchasing (in euros), %	100%	97%	93%	-
Commitment to Supplier Code of Conduct, % of total purchasing (in euros), %	100%	96%	95%	94%
Know your supplier check completed, % of total purchasing (in euros)	100%	84%	77%	-
Sustainability evaluation completed, % of total purchasing (in euros)	100%	54%	49%	41%



Sustainability targets for 2030 and performance

Target	Target 2030	2020	2019	2018
WE WORK FOR A BETTER CLIMATE AND ENVIRONMENT				
Share of fossil free energy (0 t CO2 Scope 1 and 2), %	100%	83%	83%	82%
Share of fossil-free energy, own generation (0 t CO2 Scope 1), %	100%	83%	82%	82%
Share of fossil-free energy, purchased (0 t CO2 Scope 2), %	100%	83%	85%	81%
Energy efficiency improvement, change from the 2018 level, %	>+10%	+2.1%	-0.7%	-
Process water use per produced tonne, change from the 2018 level, %	-30%	-7.7%	-11%	-
Utilisation of side streams, %	100%	99.3 %	99.4 %	99.4 %
WE CREATE WELL-BEING				
Ethics barometer	100%	85%	-	-
Total Recordable Injury Frequency (TRIF) per million hours worked	0	8.4	10.2	12.6



External recognition and commitments







WATER 2020

Metsä Board is on the CDP Climate A and Water A Lists for the fifth year in 2020. In Forest Programme Metsä Board has the Leadership level A-. Metsä Board is also recognised as a Supplier Engagement Leader in 2020.



In 2020. Metsä Board received a rating of AAA (on a scale of AAA-CCC) in the MSCI ESG Ratings assessment.

Link to MSCI Terms and Conditions



Metsä Board scored 'Platinum' in EcoVadis' CSR ranking in 2021 and is included in the top 1% of companies assessed in the manufacture of corrugated paper and paperboard and of containers of paper and paperboard.





In ISS ESG Corporate Rating Metsä Board has a 'Prime' status. Metsä Board has also received an ISS QualityScore rating of "1" in ISS **ESG's Environmental category.**





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



In May 2021, Metsä Board received an overall ESG Risk Rating score of 15.9 and is considered by Sustainalytics to be at low risk of experiencing material financial impacts from ESG factors.



Metsä Board's ESG performance was rated "Advanced" in Vigeo Eiris ESG assessment in November 2020.



DRIVING AMBITIOUS CORPORATE CLIMATE ACTION

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

BUSINESS 1.5°C



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