

# METSÄ BOARD

SUSTAINABILITY  
2015



**MetsäBoard**

Environmental responsibility and sustainability are an integral part of Metsä Board's daily operations. The company uses fully traceable raw materials and emphasises energy and water resource efficiency in all its operations.

# RESPONSIBLE PRODUCTS FROM FOREST TO CONSUMERS

## METSÄ GROUP'S SUSTAINABILITY TARGETS

### WE OFFER SUSTAINABLE CHOICES

#### PRODUCTS AND SERVICES

- Turning renewable wood into sustainable, safe and recyclable products
- Providing customer-focused services and solutions
- Innovating for continuous improvement and renewal

### WE BRING THE FOREST TO YOU

#### RAW MATERIALS AND SUPPLY CHAIN

- Promoting sustainable forest management, certification, biodiversity and multiple use of forests
- Enhancing sustainability in the value chain
- Ensuring the traceability of raw materials

### WE WORK FOR A BETTER CLIMATE AND ENVIRONMENT

#### RESOURCE EFFICIENCY AND EMISSIONS

- Making efficient use of raw materials, energy and water
- Increasing the value of side streams
- Maximising the share of bioenergy
- Minimising emissions to water and air

### WE CREATE WELL-BEING

#### STAKEHOLDER ENGAGEMENT

- Ensuring ethical business practices
- Improving safety at work
- Assuring responsible management
- Contributing to local livelihoods and society

# METSÄ BOARD'S TARGETS

## PRODUCT AND PROCESS INNOVATION

### EXPANDING PRODUCT PORTFOLIO

Metsä Board is expanding its product portfolio into food service boards, which supports the company's strategic growth. In research and development, Metsä Board puts effort into functional coating solutions.

## ENERGY:

Energy efficiency improvement, target 2009–2020

**12%**

**Actual 2015**

**10%**

## SUSTAINABLE SUPPLY CHAIN

### WWF RECOGNITION FOR IMPROVED ENVIRONMENTAL PERFORMANCE

In November, Metsä Group was recognised for its transparency and improved environmental performance in the Environmental Paper Company Index measuring sustainable forest industry operations by WWF. The index applauded Metsä Board for the reduction of fossil CO<sub>2</sub> emissions, in particular.

## CLIMATE:

Fossil CO<sub>2</sub> emissions per product tonne, target 2009–2020

**-30%**

**Actual 2015**

**-42%**

## RESOURCE EFFICIENCY

### PRODUCTION RECORDS AT THE MILLS

The overall efficiency of Metsä Board's mills in Finland improved by 1.1 per cent from the previous year. This has a direct impact on material and energy efficiency as well as productivity. Several efficiency improvement measures are underway at Metsä Board's mills, which have enabled the Kemi, Kyro, Joutseno and Äänekoski mills to break their annual production records.

## RESOURCE EFFICIENCY:

Use of process water per product tonne, target 2009–2020

**-17%**

**Actual 2015**

**-16%**

## BIOBASED PURCHASED ENERGY

**81%**

## WELL-BEING AND SAFETY AT WORK

### MILLS IN FINLAND AUDITED UNDER SMETA

Metsä Board's paperboard mills in Finland were audited in 2015 in accordance with the SMETA (Sedex Members Ethical Trade Audit) auditing system. The audit covered labour matters and occupational health and safety, as well as the environmental impact and ethical principles of business operations. No significant deviations were identified at Metsä Board's mills in these audits.

## ORGANISATIONAL FUNCTIONALITY INDEX

**8.2**

on a scale from 4 to 10

Metsä Board's products are based on renewable fresh forest fibre. The company continuously reduces its carbon footprint and improves its resource efficiency. As an acknowledgment of its good work, Metsä Board received in 2015 three significant recognitions from CDP.

# LEADING ENVIRONMENTAL DATA REPORTING

Metsä Board addresses market demand by means of environmental responsibility, which also supports sustainability in a broader respect. Reliable information on how companies adjust to changes is increasingly important. Therefore, Metsä Board reports important environmental information to CDP (formerly the Carbon Disclosure Project), for example.

Metsä Board received a full score of 100 for the transparency of its environmental impact reporting from CDP and was also included in the Climate Disclosure Leadership Index (CDLI). The inclusion in the CDLI Index is based on high-quality management and reporting of carbon dioxide emissions and energy information. Only the top 10 per cent of Nordic companies were selected for the index. Metsä Board works to combat climate change in the long term primarily by increasing the use of bioenergy, improving water and energy efficiency, and reducing the weight of its paperboards.

CDP also selected Metsä Board for its global Water A List as recognition for the company's responsible use of water. This year, only eight companies in the world received an A grade from CDP for their use of water. Metsä Board is the only forest industry company and the only European company on this list. The inclusion in the list was a significant recognition, since using water is necessary in the manufacturing of paperboard and pulp. Metsä Board is continuously seeking new ways to improve the efficiency of its water use and to minimise the impact of its production on nature and the environment.

The third recognition from CDP was received in the materials sector of the forest programme, where Metsä Board was awarded Leadership status, together with eight other companies.

Metsä Board also reports environmental data to CDP concerning its supply chain. Some of the company's customers would like to see this reporting as part of their own CDP reporting.

CDP is an international, non-profit organisation that offers companies and municipal authorities the only worldwide system for measuring, publishing, managing and distributing this information. Thousands of companies annually submit information on their environmental impact to CDP at the request of investors.

## IMPROVED SCORES

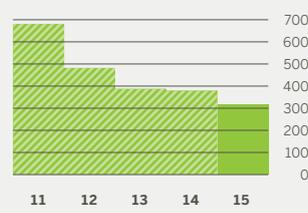
At the end of 2013, L'Oréal presented its commitments with regard to sustainable development by 2020 through the "Sharing Beauty With All" programme. L'Oréal's objective is to become one of the leaders of the new economic development model, which is increasingly ecological, responsible and inclusive.

Suppliers are an integral part of the environmental, social and ethical commitments made by L'Oréal. The company's objective is that by 2020, 100 per cent of L'Oréal's strategic suppliers will be involved in its sustainability programme.

As its suppliers' activities represent 28 per cent of its carbon emissions, L'Oréal believes such activity is part of its broader environmental footprint. Therefore, since 2009, L'Oréal has involved its suppliers in measuring and reducing its carbon footprint by asking them to work with CDP in the CDP Supply Chain programme.

Since 2013, Metsä Board has been participating in CDP's supply chain programme and improving their scoring year on year to reach in 100B in 2015. Among L'Oréal's packaging components suppliers, Metsä Board is the best performer for 2015. It demonstrates again Metsä Board's action and commitment to tackling climate change.

**METSÄ BOARD'S CO<sub>2</sub> EMISSIONS,**  
1,000 t



## REDUCED CONSUMPTION OF ENERGY AT KASKINEN

Operations and technology have been developed considerably in recent years at the Kaskinen high-yield pulp mill, which has been in operation for ten years. The consumption of electric energy, in particular, has decreased considerably at the mill through several measures, the most recent of which were the investments in a low-consistency grinder in 2013 and 2015. The mill's electric energy consumption has decreased by 28 per cent compared to 2009.

**ELECTRICITY USAGE OF KASKINEN MILL**  
MWh/h



## LIGHTWEIGHTING AND SAVINGS IN THE VALUE CHAIN



	2015	2014
<b>EMISSIONS INTO AIR (t)</b>		
Fossil carbon dioxide (CO <sub>2</sub> )	317,441	380,348
Sulphur (as SO <sub>2</sub> )	671	861
Nitrogen oxides (as NO <sub>2</sub> )	1,649	1,870
Particles	110	142

	2015	2014
<b>RAW MATERIALS</b>		
Metsä Board's wood purchases (1,000 m <sup>3</sup> )	4,939	5,381
Chemical and high-yield pulp used by Metsä Board (1,000 t)	1,388	1,391
<b>OTHER RAW MATERIALS (1,000 t)</b>		
Pigments	340	409
Adhesives	75	71
<b>WATER INTAKE (1,000 m<sup>3</sup>)</b>	105,124	106,723
Process water	68,702	73,703
Cooling water	54,141	50,527

	2015	2014
<b>PRODUCTION (1,000 t)</b>		
Board and paper	1,911	1,999
Chemical and high-yield pulp	1,206	1,294

	2015	2014
<b>DISCHARGES TO WATER (t)</b>		
Waste water flow (1,000 m <sup>3</sup> )	68,702	73,703
Chemical oxygen demand (COD)	10,673	11,997
Biological oxygen demand (BOD)	568 <sup>1)</sup>	525 <sup>1)</sup>
Total suspended solids	2,082	2,906
<b>WASTE (t)</b>		
Recycled waste	159,953 <sup>2)</sup>	284,068
Recycled waste, %	98	99
Landfill waste	2,718	672
Hazardous waste	736	1,300

<sup>1)</sup> Not measured at the Husum mill

<sup>2)</sup> Doesn't include Gohrsmühle mill

# Make the most of Metsä Board



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