UPM BIOFORE
BEYOND FOSSILS

UPM Tervasaari

ENVIRONMENTAL AND SOCIETAL RESPONSIBILITY 2020

UPM Tervasaari

The Tervasaari mill is located in the town centre of Valkeakoski, Finland, at the end of the canal between the Mallasvesi and Vanajavesi lakes. The mill is located right next to a populated area, so careful attention must be paid to environmental issues during everyday operations.

The Tervasaari mill integrate consists of two paper machines, a power plant, a hydropower plant and a biological effluent treatment plant. Several businesses also operate onsite as tenants. The environmental load of these tenants' effluent emissions is included in this report's data.

The heat required by the Tervasaari mills is produced by the mill's own power plant, and approximately one fifth of the required electricity is produced at t he mill. Heat is also sold to external users as district heating and steam.

The Tervasaari mill's industrial landfill in Suikki was in use through the whole of 2020. The closure of the Kalatonlahti landfill went ahead as planned during 2020.

UPM Tervasaari is a centre of expertise for label papers, with a strong focus on the development of both existing paper grades and new products.

UPM Tervasaari Environmental and Societal Responsibility 2020 is a supplement to the Corporate Environmental and Societal Responsibility Statement of UPM's pulp and paper mills (available at www.upm.com) and provides mill-specific environmental and societal performance data and trends for the year 2020. The annually updated mill supplements and the UPM Corporate Environmental and Societal Responsibility Statement together form the joint EMAS Statement of UPM Corporation. The next Updated UPM Corporate Environmental Statement and also this supplement will be published in 2022.

UPM delivers renewable and responsible solutions and innovates for a future beyond fossils across six business areas: UPM Biorefining, UPM Energy, UPM Raflatac, UPM Specialty Papers, UPM Communication Papers and UPM Plywood. As the industry leader in responsibility we are committed to the UN Business Ambition for 1.5°C and the science-based targets to mitigate climate change. We employ 18,000 people worldwide and our annual sales are approximately EUR 8.6 billion. Our shares are listed on Nasdaq Helsinki Ltd. UPM Biofore – Beyond fossils. www.upm.com

Production capacity	300,000 t/a	
Personnel	316	
Products	UPM Brilliant™ UPM Brilliant™ Forte UPM Brilliant™ Pro UPM Honey™ UPM Honey™ Plus UPM Honey ™ Plus Recycled UPM Golden™	UPM Golden™ Forte UPM Golden™ Recycled Forte UPM Brilliant™ Duo UPM Crema™ Duo UPM Topaz™ Duo UPM SCK™ Plus UPM SCK™
Certificates	EMAS EU Eco-Management and Audit Scheme ISO 14001 – Environmental Management System ISO 9001 – Quality Management System ISO 22000 – Food Safety Management System ISO 45001 – Occupational Health and Safety Management System PEFC™ Chain of Custody – Programme for the Endorsement of Forest Certification FSC® Chain of Custody – Forest Stewardship Council All certificates can be found from UPM's Certificate Finder (available at www.upm.com/responsibility)	

FSC
www.fsc.org
FSC® C014719
The mark of responsible forestry

For more information about FSC certification visit fsc.org

PEFC
PEFC/02-31-80
Promoting Sustainable Forest Management
www.pefc.org

For more information about PEFC certification visit pefc.org

Review of the year 2020

In 2020, the demand for the label materials and specialty paper products of UPM Specialty Papers continued to grow. We gained additional capacity through the activation of paper machine 2 at the UPM Nordland mill. We achieved good results at Tervasaari in the management of environmental issues and occupational safety. The implementation of the sustainable development strategy is continuing at our mill by offering new and responsible solutions including to do with product safety, material efficiency and the ecodesign of products, as well as by innovating alternatives to the solutions of the fossil economy.

The demand for label materials and specialty paper products continued to grow not only through the increase in online sales but also changes in consumer behaviour caused by the corona pandemic. In March 2020, production of specialty paper was started with paper machine 2 at the UPM Nordland mill. Due to the additional capacity that this creates, UPM Specialty Papers can now further strengthen its service capability for customers and expand its product range in label backing papers and new areas of end use. Tervasaari's machines also have a significant role in this expansion.

UPM has long focused on the continuous improvement of safety at work through its Step Change in Safety programme, and major efforts have been made at Tervasaari to improve occupational safety. UPM Specialty Papers set a new accident frequency record, and Tervasaari also set a new record at the plant level. There were no serious accidents during 2020. Within the external workforce, there were also no work-related accidents during the year that resulted in sick leave. Towards the end of 2020, we moved over to the new occupational safety management system ISO 45001.

We continued our company-wide Clean Run campaign to further improve the management of environmental issues. In 2020, Tervasaari did not receive any environmental reports from stakeholders related to the operation of the mill. We set an internal target for reducing the effluent wastewater volume generated through paper production in 2020, and we achieved this target. Tervasaari is continuing UPM's carbon dioxide emissions reduction pledge. The goal of UPM is to reduce CO_2 emissions by 65% from the 2015 level by 2030. At Tervasaari, CO_2 emissions reductions are focused on changes and selections of the fuels of the power plant and making energy recovery more efficient. Our operations continued to be evaluated by both environmental authorities and independent external product safety and environmental specialists in 2020.

Customer enquiries regarding our products mainly related to product safety, the origin of wood raw materials, forest certification, the amount of recycled fibre used in paper, and various management systems. In recent customer enquiries, the origin of wood has been one of the most popular topics. Product safety is especially important in the case of label and packaging papers used by the food industry. UPM's paper is safe to use throughout its whole lifecycle, and papers approved for food use can be used in direct contact with dry and non-fatty foods.

We continued our research on how to recover fly ash and other industrial sidestreams by using new technologies.

In 2020, the mills of UPM Specialty Papers continued the material efficiency project in the food industry launched by Motiva in 2019, in which we commit to following various kinds of material efficiency operations in our own activities.

Material efficiency and the ecodesign of products form part of the sustainable development programme at Tervasaari. Some examples of material efficiency include minimising raw material losses and ensuring production efficiency. Furthermore, in the production of paper products, the impact of the product on the whole value chain must be considered as comprehensively as possible. UPM Specialty Papers is developing new, lighter label and packaging products which allow raw materials to be saved. The material efficiency of the product's entire value chain is also improved, and, for example, the CO_2 emissions from the transportation chain are reduced. UPM Specialty Papers is committed to developing packaging materials from renewable raw materials for the food supply chain. These materials ensure the shelf life of food and minimise food loss in the production and storage chain.

UPM's Biofore – Beyond Fossils strategy is all about seizing the unlimited opportunities of the bioeconomy. We deliver renewable and responsible solutions and innovate for a future beyond fossils. All of this is an integral part of the sustainable development strategy at Tervasaari.

Laura Remes
Mill Manager

Ville Juutinen,
HSE Manager

UPM Tervasaari

Responsibility figures 2020

Waste

0%

Share of landfill waste

Certified fibre

77%

of the fibre used in paper production was FSC- or PEFC-certified (the figure includes three European mills of Specialty Papers). UPM's goal: for all fibre to be certified by 2030.

Consumption impact*

Mill's consumption impact in region approx.

12 million euros

in Finland approx.

18 million euros

* Private consumption of commodities generated through the net income of internal and indirect employees

Air

Fluidised bed boiler emissions reduced after the purification unit investment

SO_2 **86%**

CO_2 **35%**

Particulates 99%

Energy

The share of biomass-based fuels

55%

of fuels used

Water

Chemical oxygen demand

40%

lower than in 2019

Biological oxygen demand

76%

lower than in 2019

Safety

The lost-time accident frequency leading to absences (LTAF) has improved since 2011 by

85%

Safety and environmental observations, hazard situation reports, safety inspections and discussions logged by the personnel at Tervasaari in 2020

1,462

We did

364 working days

safely in 2020

Taxes

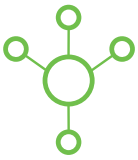
Mill's local tax impact approx.

7 million euros

Real estate tax 0.5 million euros
Estimate of tax on salaries 2.8 million euros
Estimate of corporate income tax 4.0 million euros
based on the number of employees*

* Approximately 30% of corporate income tax goes to municipalities, which is split between each municipality according to their share of business activities and forests operations.

Supply chain



97%

of raw material spend covered by UPM Supplier and Third Party Code (wood not included)

Employment

UPM Tervasaari employed

316 people

Indirect employment effect in region approx.

240 persons

Number of summer employees

40 people

Health

Support for the personnel for practising exercise and culture

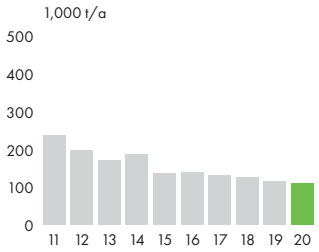
94,800 euros

Air

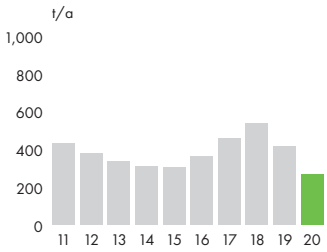
In recent years, industry in the Valkeakoski city region has undergone dramatic changes that have resulted in a decrease in airborne emissions. Community air monitoring in Valkeakoski was therefore discontinued on 31.12.2015.

Airborne emissions from the Tervasaari mill remained below permitted limits throughout the year. The fluidised bed boiler's flue gas purification unit, commissioned at the end of 2014, has helped to dramatically reduce the mill's SO_2 and particulate emissions. In 2020, NO_x emissions from the mill dropped because the natural gas boiler K3 was not used.

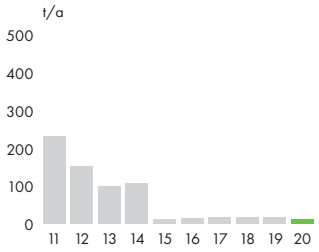
Fossil carbon dioxide, CO_2



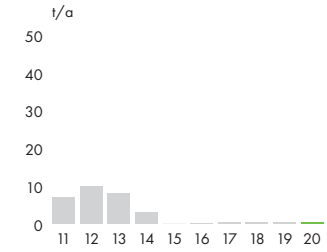
Nitrogen oxides, NO_x



Sulphur dioxide, SO_2



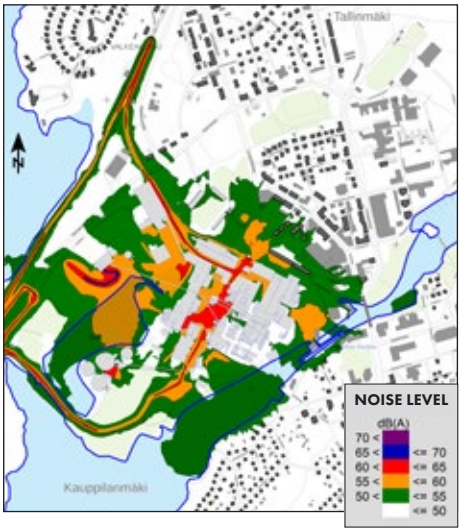
Particulates



Noise

The annual noise measurements required by the Tervasaari environmental permit were conducted in 2020. The measurement results have been reported to the environmental protection authorities of Valkeakoski and the Pirkanmaa Centre for Economic Development, Transport and the Environment.

Calculation of noise propagation was done using SoundPLAN software and the Nordic noise calculation method for road, railway and industry noise. The situation describes the average daytime sound level (LAeq7-22) of process noise, heavy traffic and rail traffic at the Tervasaari mill in the summer of 2019.



Waste

The mills of UPM Specialty Papers joined a food industry material efficiency campaign launched by Motiva in 2019. As part of the campaign, we commit to implementing various material efficiency efforts in our business.

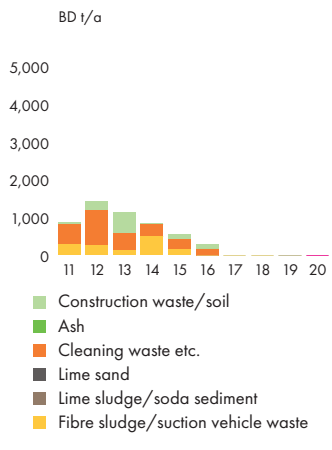
Tervasaari has been actively involved in UPM's Zero Solid Waste project. One of the project's aims is to eliminate all solid waste taken to landfill by improving the sorting and recycling of waste. Tervasaari already achieved this by the end of 2016.

We have set ourselves the permanent goal of recovering all fractions from UPM Tervasaari and not taking any production waste to the Suikki landfill. In 2020, we continued to collaborate with various research institutes and other operators to ensure the recovery of waste, and we aim to develop new methods to ensure the recovery of industrial by-products. However, the Suikki industrial landfill can continue to be used as an interim storage area for materials being directed to recovery, if necessary.

In 2020, fly ash and fluidised bed boiler bottom ash were used in the closure of UPM's Kalatonlahti landfill. We were able to keep the proportion of recovered waste at a high level through improved sorting practices. Essentially all waste produced in 2020 was recovered.

Filtration water from the Kalatonlahti and Suikki landfills is processed at Tervasaari's biological effluent treatment plant.

Solid waste taken to the landfill



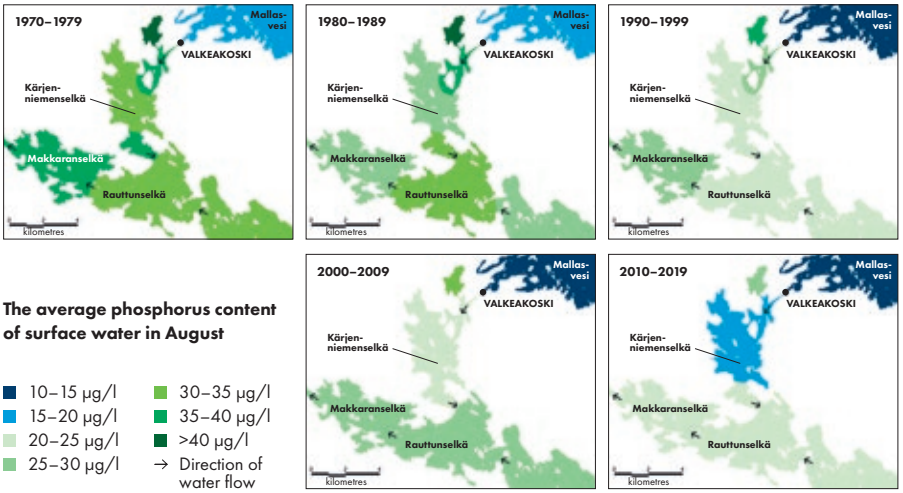
Water

During 2020, we managed to keep the amount of wastewater created in paper production at the level of the previous year.

The efficient use of nutrients used at the purification plant affected the BOD_7 and COD contents of the wastewater going out. BOD_7 and COD emissions fell significantly from the previous year.

All the measurements related to effluent emissions remained well below the permit limits. The internal effluent emission levels also remained clearly below the objectives set for 2020.

As was the case during the previous year, a controlled stream of warm process water was directed to the mill's effluent purification plant during the coldest time of the year to keep the temperature of the wastewater processed at the biological purification plant at an optimal level with regard to the conditions and to keep microbial activity vital.

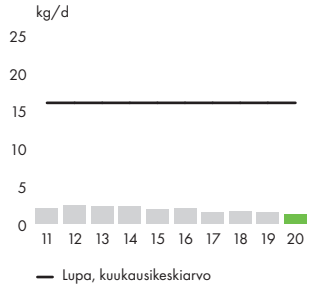


The average phosphorus content of surface water in August

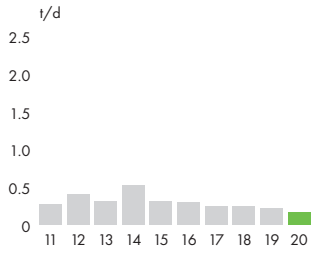
- 10–15 µg/l
- 15–20 µg/l
- 20–25 µg/l
- 25–30 µg/l
- 30–35 µg/l
- 35–40 µg/l
- >40 µg/l
- → Direction of water flow

In the long term, the eutrophication level in the Valkeakoski area has decreased significantly due to the reduction in the point source load. This can be seen in the decrease in average phosphorus content below Valkeakoski. Currently, the phosphorus contents there are already lower than in Rauttunselkä and Makkaranselkä, where the higher eutrophication level is sustained by scattered loading (Source: KVVY Tutkimus Oy).

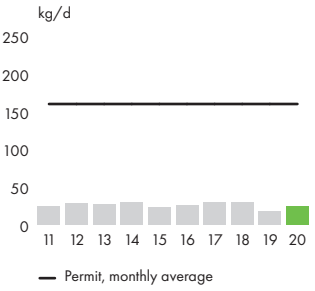
Phosphorus, P



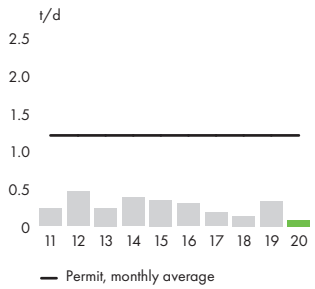
Total suspended solids, TSS



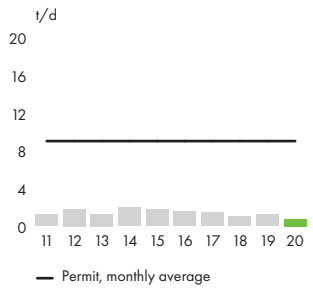
Nitrogen, N



Biological oxygen demand, BOD_7



Chemical oxygen demand, COD



Management of crises and exceptional situations

Tervasaari mill management and the safety organisation are responsible for the prevention of exceptional situations and the operational management of crises and exceptional situations. The Tervasaari mill has guidelines and rescue and firefighting plans for exceptional situations.

The Mill Manager heads the management of exceptional situations. Mill experts support the Mill Manager in this by providing their own specific expertise. In the event of a major exceptional situation, these experts form the mill's crisis management team, which is responsible for the operational management of the situation. A major exceptional situation is an unforeseen chain of events that proceeds rapidly and has a significant impact on operations. Exceptional situations include serious accidents and hazardous situations (large fires, explosions and chemical and traffic accidents on the mill site), environmental damage, serious work-related accidents, cybersecurity threats and information attacks.

The operations of the mill safety organisation cover expert tasks regarding occupational safety, mill guarding, firefighting and rescue operations, and the control of hazardous substances. Drills related to exceptional situations are an important part of proactive safety work. Firefighting and rescue operations are always led by the rescue authorities.

Societal responsibility

Engaging with society
Well-functioning stakeholder dialogue is a key component for success for UPM. We are committed to developing the vitality of the communities close to our operations through active co-operation and open dialogue with various stakeholders as well as, for example, through sponsorships and employee volunteering.

We impact local communities and societies in many ways. Understanding the impact that we have is an essential component of our business success. In many locations, we are a significant employer, taxpayer and partner to local entrepreneurs, making positive contributions to the local economy. We apply several precautionary measures to mitigate and remedy potential negative environmental and social impacts on our surrounding communities.

Safety
UPM aims to be the industry leader in occupational health and safety matters. Our target is zero serious and fatal accidents. Safety is an inseparable part of our daily activities and is not seen as secondary to any other consideration. We strive to reduce and eliminate accidents through continuous improvement and effective risk management. In 2020, we achieved a record low in accident figures at Tervasaari. We have all of our personnel to thank for that!


"Active and open interaction between the mill and local stakeholders is an important thing," says the HSE Manager of the UPM Tervasaari mill, Ville Juutinen.

Our employees, as well as business partners and their employees, are required to adopt safe work practices and to comply with the rules and standards that we have set. For example, before accessing UPM production sites, contractors participate in UPM's safety training, which presents the basic safety requirements. This is complemented by job-specific safety inductions and work permits.

Tervasaari mill employees regularly take part in safety training, such as safety standard training, occupational safety card training, hot work licence training and first aid training. Training was done in 2020 in small groups, so that the possible spreading of the coronavirus could be minimised.

We did not hold the annual UPM Occupational Safety Week in 2020 because of the corona situation. However, in October we conducted a safety drive outdoors, where reflective harnesses were distributed to all of the personnel to protect them in the darkening days of the coming autumn, both on the trip to work and in their free time. At the same time, the people at Tervasaari got to write their own safety pledges on the *My Safety Pledge* canvas.

In addition to fire safety, the Tervasaari mill fire service is active in many other safety service areas, such as ensuring safety for work at heights, as well as training employees on different topics. The mill fire service employees are professionals in different fields who are also qualified for fire service tasks. The Tervasaari mill fire service is a contracted fire service in the Pirkanmaa region and is therefore an integral part of the local fire and rescue services organisation.

The Biofore Share and Care programme
We support sustainable development and promote the financial and mental wellbeing of the communities around us by participating in numerous community projects as a company. Our work in this arena is firmly connected to our Biofore Strategy and responsibility targets. It is co-ordinated as a part of UPM's Biofore Share and Care programme.

The Biofore Share and Care programme comprises three forms of support: sponsorships, donations and employee volunteering. The support can be a monetary contribution, products, materials or concrete work in projects agreed on locally. Our focus is on activities and projects that are relevant to our business, that support innovation and sustainable development or that promote local vitality and well-being. The areas of focus of the Biofore Share and Care programme are reading and learning, engaging with communities, responsible water use and boosting bioinnovations.

As in previous years, Tervasaari has supported local associations, including through sports clubs. In August 2020, UPM Tervasaari gave 10,000 face masks for use with the services for the elderly of the city of Valkeakoski in connection with the corona pandemic. Corresponding donations were also made in other areas where UPM has operations.

Approximately 40 summer employees were hired at Tervasaari in the summer of 2020. The corona situation changed our normal induction practices a lot at the mill. Self-study materials and electronic training sessions related to safety and general induction helped first-timers well to take in issues with regard to exceptional situations. In a survey conducted at the end of the summer, we received good feedback from the summer workers about the self-study materials, helpfulness, fair treatment and the nicely relaxed atmosphere.

Health and well-being at work
Matters related to occupational health and safety and well-being at work are regularly discussed in working groups,


A series of safety drives was carried out at the mill in the autumn of 2020. Reflective harnesses were distributed to all of the personnel and the people at Tervasaari had the opportunity to give their own safety pledge.

UPM Tervasaari gave 10,000 face masks for use with the services for the elderly of the city of Valkeakoski. Corresponding donations were also made in other municipalities where UPM has operations. In the picture, receiving the donation is the Director of Services for the Elderly Tarja Laine (left) and the Director of Services Katri Nieminen from the city of Valkeakoski. Giving the masks, there were the Mill Manager Laura Remes, Head of the Fire Service Jari Hietamäki and the Environment and Occupational Safety Manager Harri Hiltunen.

such as the occupational safety steering group, the occupational protection committee and the well-being at work group. These groups include representatives from the Tervasaari mill and occupational health care. A well-being at work programme has also been created for employees. The aim of the programme is to help supervisors strengthen the working capacity of employees, support the working capacity of individuals and encourage employees to participate in activities such as UPM's courses for getting fit. The Tervasaari mill has its own gym that employees can use free of charge. UPM also supports the employees' exercise and cultural activities.

During the corona pandemic, numerous protective measures have been implemented at the Tervasaari mill to prevent the spreading of the coronavirus in the workplace, and personnel have committed commendably to new directives and practices. UPM has supported the protection of personnel from the virus in their free time as well by distributing single-use face masks to them on a monthly basis.

Personnel development

We encourage our employees to develop their professional skills by arranging several training and coaching events every year. During exceptional times, we have increased the amount of different webinar and online training sessions. During the autumn of 2020, all the personnel of the Tervasaari mill did, amongst other things, the ISO 22000 food safety training as online study.

Apprenticeships will continue at the Tervasaari mill in 2020. There are groups for a further vocational qualification in the processing industry and in maintenance. A new two-year student group began in March, aiming at a vocational qualification in the processing industry. During the autumn, the students performed competence-based qualifications industriously and deepened their know-how.

In September 2020, the people at Tervasaari had the opportunity to reply to UPM's annual personnel survey. On the basis of the opinions of the personnel, commitment, know-how, cooperation and safety were seen as strengths and positive things. The action plan for 2021 became based on the development of good safety practices, wide-ranging utilisation of skills and know-how, increasing doing things together and positive feedback, as well as improving things together.

Tax impact

Tax revenue generated by UPM's business operations is an essential part of our societal impact. UPM pays corporate income taxes in the countries where added value is created, and profit is generated. Based on UPM's corporate and operational structure, UPM reports and pays its corporate income taxes mainly in countries where production activity takes place and where innovations are developed. In addition to the taxes on income, UPM's various production inputs and outputs are also subject to taxation. Taxes are paid in accordance with the local tax legislation and regulations of the country in question.

In 2020, UPM's corporate income taxes paid and property taxes were approximately EUR 178 million in total (EUR 211 million in 2019).

The mills' operations also benefit the local community in many ways. Municipal share of corporate income taxes and the real estate taxes paid by UPM support the local economy. In addition, the taxes and social security contributions that UPM employees pay on their wages have also a significant local impact. Furthermore, the purchasing power of UPM employees and subcontractors maintains and enhances the vitality of the community.

Responsible sourcing and qualified supplier spend

UPM is committed to responsible sourcing practices throughout the entire supply chain. We work closely with our suppliers to ensure that our suppliers understand and meet all of the company's requirements on sustainability and responsibility. UPM requires its suppliers to comply with the UPM Supplier Code and Third Party Code (Code) that defines suppliers' minimum requirements in terms of responsibility with regard to matters such as environmental impact, human rights, labour practices, health and safety, product safety, corruption and bribery.

Environmental parameters

The figures related to production as well as raw material and energy consumption are published as aggregated figures on group level in the UPM Corporate Environmental and Societal Responsibility Statement.

		2018	2019	**2020**
Production capacity	Paper	300,000 t	300,000 t	300,000 t
Raw materials	Pulp Chemicals	See UPM Corporate Environmental and Societal Responsibility Statement for more information		
Energy	Biomass-based fuels Fossil fuels Purchased energy[1]	52% 48%	55% 45%	55% 45%
Emissions to air	Particulates Sulphur dioxide, SO_2 Nitrogen oxides, NO_x Fossil CO_2	0.3 t 18.3 t 538.4 t 127,082 t	0.3 t 17.0 t 412.9 t 115,146 t	0.4 t 13.1 t 268.7 t 110,190 t
Water intake	Process and cooling water	10,391,395 m^3	9,475,225 m^3	10,372,244 m^3
Discharges to water	Clean cooling water Process effluent BOD_7 COD_{Cr} Solids Phosphorus Nitrogen	5,833,974 m^3 4,660,080 m^3 49.2 t 361 t 87.4 t 0.6 t 10.8 t	5,334,998 m^3 4,164,960 m^3 122.1 t 458.5 t 79.2 t 0.5 t 6.7 t	6,126,915 m^3 4,245,329 m^3 29.8 t 274.8 t 59.8 t 0.5 t 8.8 t
Waste[2]	Waste to landfill Recycled waste – Metal waste – Ash – Energy waste – Waste paper and board and domestic waste – Others Intermediate storage	0 t 430 t 8,377 t 164 t 49 t 0 t	0 t 389 t 6,665 t 676 t 306 t 84 t 0 t	0 t 261 t 8,584 t 654 t 79 t 18 t 0 t
	Hazardous waste[3]	98.9 t	140.2 t	102.6 t
Land use	Total use of land Total sealed area Total nature-oriented area on site	90 ha	90 ha	110 ha 43 ha 67 ha

1) See UPM Corporate Environmental and Societal Responsibility Statement for more information (e.g. energy indicators)
2) Waste amounts given as dry weight
3) Hazardous waste amounts given as total weight

Performance against targets in 2020

TARGETS	ACHIEVEMENT	COMMENTS
The most significant measures for improving safety and protecting the environment in 2020 were:		
1 Preventing environmental deviations and achieving the Clean Run objectives: COD < 1.7 t/d; BOD_7 < 0.3 t/d, N < 29 kg/d and P < 2.5 kg/d	Yes	The purification plant has operated reliably. Other emissions were below internal targets, No Clean Run deviations in categories 3, 4 and 5
2 Airborne emissions; fluidised bed boiler		
– NO_x < 200 mg/m³(n)	Yes	Emissions into the air were lower than the established targets.
– SO_2 < 20 mg/m³(n)	Yes	
– Particulates < 5 mg/m³(n)	Yes	
3 Reducing water consumption, the loss of solids and the amount of solid waste:		
Water consumption 8.2 m³/t	No	On average, typical effluent consumption exceeded the target, although Tervasaari was able to reduce wastewater volumes.
Solids losses 0.60%	Yes	The target was met for solids losses.
Improving the sorting of waste to be incinerated	Yes	Sorting of the different types of waste produced by the mill was improved.
0 t/a of taxable waste taken to landfill	Yes	No taxable waste was taken to landfill.
4 Increasing opportunities for ash recovery: Aim to recover 100% of fly ash Participation in at least one ash road project or other recovery project	Yes	The fluidised bed boiler's sand recycling worked outstandingly, which significantly reduced the amount of bottom ash removed from the system. Fly ash was recovered according to plan.
5 Improving energy efficiency:		
– Reducing the use of natural gas by 40,000 MWh compared to the 2017 level	No	The target was not met in energy production due to problems in the combustion process of the fluidised bed boiler.
– Paper machine energy efficiency audits	No	No internal audit was conducted due to the corona situation.

Targets for 2021

TARGETS
1 Preventing environmental deviations and achieving the Clean Run objectives: COD < 1.5 t/d; BOD_7 < 0.3 t/d, N < 29 kg/d and P < 2.3 kg/d Active optimisation of nutrients
2 Airborne emissions; fluidised bed boiler – NO_x < 200 mg/m³(n) – SO_2 < 10 mg/m³(n) – Particulates 0 mg/m³(n) Optimisation of the combustion conditions of the boiler and the functioning of the flue gas purification unit
3 Reducing water consumption, the loss of solids and the amount of solid waste: Water consumption 8.2 m³/t Solids losses 0.60% Improving the sorting of waste to be incinerated 0 t/a of taxable waste taken to landfill
4 Increasing opportunities for ash recovery: Aim to recover 100% of fly ash Participation in at least one ash road project or other recovery project
5 Improving energy efficiency: Reducing CO_2 emissions by 7% compared to the 2020 level Paper machine energy efficiency audits

EMAS
Verified environmental management
REG.NO. FI - 000058

Revalidation statement

As an accredited environmental verifier (FI-V-0001), Inspecta Sertifiointi Oy has examined the environmental management system and UPM Tervasaari Environmental and Societal Responsibility 2020 statement as well as the information concerning UPM Tervasaari in the Updated UPM Corporate Environmental and Societal Responsibility Statement 2020.

On the basis of this examination, the environmental verifier has herewith confirmed on 2021-04-07 that the environmental management system, the UPM Tervasaari Environmental and Societal Responsibility 2020 statement and the information concerning UPM Tervasaari in the Updated UPM Corporate Environmental and Societal Responsibility Statement 2020 are in compliance with the requirements of the EMAS Regulation (EC) No 1221/2009.

We reduce the world's reliance on fossil-based materials by developing renewable and responsible products and solutions in all our businesses. **UPM Biofore – Beyond fossils.**

UPM

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