

UPM Hürth

# ENVIRONMENTAL AND SOCIETAL RESPONSIBILITY 2022



# UPM Hürth

UPM Hürth (Rhein Papier GmbH) is located in the west of Cologne in the Hürth-Knapsack industrial zone. This central position between the agglomerations of Rhine-Main and Rhein-Ruhr provides short distances for raw material supplies, customer deliveries and waste management.

The mill was founded in 2001. UPM Hürth's PM 1 paper machine is producing high-quality newsprint and printing paper for advertising supplements since the start-up in 2002. Its raw material is sorted graphic recovered paper, e.g. newspapers, magazines, advertising supplements, catalogues and office paper. The mill's de-inking plant can process up to 400,000 tons of RCP per year.

Process effluents are pre-treated prior to entering the treatment plant in the neighbouring chemical industrial park. Waste is either energetically recovered or recycled. Thermal energy (steam) is delivered by the adjacent RWE power plant. Since the beginning of 2016 electrical power is drawn from the public grid.

The UPM Hürth mill focusses on safe ways of working, respect for the environment as well as high productivity and innovation for the benefit of its customers.



UPM Hürth Environmental and Societal Responsibility 2022 is a supplement to the Corporate Environmental and Societal Responsibility Statement of UPM's pulp and paper mills (available at [www.upm.com](http://www.upm.com)) and provides mill-specific environmental and societal performance data and trends for the year 2022. 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 2024.

UPM delivers renewable and responsible solutions and innovates for a future beyond fossils across six business areas: UPM Fibres, UPM Energy, UPM Rafatac, 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 17,200 people worldwide and our annual sales are approximately EUR 11.7 billion. Our shares are listed on Nasdaq Helsinki Ltd. UPM Biofore – Beyond fossils. [www.upm.com](http://www.upm.com)

<b>Production capacity</b>	Up to 330,000 to/a
<b>Personnel</b>	125 (total number on Dec 31, 2021)
<b>Products</b>	Standard Newsprint UPM News C Heatset Newsprint UPM EcoBasic H
<b>Certificates</b>	EMAS – EU Eco-management and Audit Scheme ISO 14001 – Environmental Management System Standard ISO 9001 – Quality Management System Standard ISO 50001 – Energy Management System Standard 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 <a href="http://www.upm.com/responsibility">www.upm.com/responsibility</a> ).
<b>Environmental labels</b>	Blue Angel according to RAL UZ14a and UZ72 EU Ecolabel



The mark of responsible forestry

For more information about FSC certification visit [www.fsc.org](http://www.fsc.org)



For more information about PEFC certification visit [www.pefc.org](http://www.pefc.org)



[www.blauer-engel.de/uz14a](http://www.blauer-engel.de/uz14a)



EU Ecolabel : FI/011/001

# Review of the year 2022

Sustainability is deep-seated in UPM's company strategy „Beyond Fossils“, spanning from ecologic and economic to social tasks. These have been taken in account in the mill's operative targets, which combine economic success with sustainable actions and respect for the interests of society, standing in multiple interrelations to the company. UPM Hürth's certifications according to international standards document this way of working.

## Environmental Audits

During the year under review several audits regarding environmental topics have taken place: Recertification audit according to ISO 14001 : 2015 and EMAS as well as the audit for Federal Water Act were carried out by external auditors. District Council did a site survey regarding odour emission and the regular site inspection. There were no deviations, the cycle of inspection was prolonged to three years.

An internal UPM "Clean Run"-audit examined the mill's environmental performance. Disregarding some small potentials for improvement, the result was consistently positive.

The external audits were complemented by internal audits regarding management processes.

The tasks derived from the audits are a key for the continuous improvement process at UPM Hürth.

RCP entries to the mill were checked by SGS in December. This is crucial for the environmental labels "Blue Angel RAL UZ 72 and RAL UZ14a". Both labels are valid until end of 2024. During the audit, the fundamentals for certification after FSC® und PEFC™ were again examined, too.

This year there was another audit by DEHSt (german authority for emission trading) concerning correctness and quality of the mill's emission reports. There were no deviations.

## Impacts of the war in Ukraine

After various capacity adjustments by the companies involved, the paper market had consolidated to such an extent that we could count on full capacity utilization of the mill and planned accordingly. After the outbreak of the war against Ukraine with its well-known consequences, particularly in the energy and logistics sectors, this planning quickly became obsolete.

Plant operation had to be optimized to reduce energy costs. This included the temporary shutdown of the de-inking plant (DIP) to avoid cost peaks and a corre-

spondingly slower mode of operation of the paper machine.

Shortages in the chemicals market initially threatened production continuity after the outbreak of war, but this was countersteered by UPM's global sourcing activities.

## Resources

In the course of the corona pandemic, the recovered paper market had changed profoundly. The high demand from the packaging industry had led to rising prices and unsatisfactory quality for the RCP grades required for paper production. This situation eased somewhat over the course of the year, as the onset of inflation impaired the population's purchasing power and willingness to buy.

Due to the external energy supply, we can influence the corresponding key figures only indirectly by increasing energy efficiency. While we could meet the best value ever for specific steam consumption by process optimization, power consumption targets could not be met. The main reason for this is the unstable run of the plant: series of web breaks and frequent partly market-related downtimes reduced the production volume, while the power consumption could not be reduced to the same extent. This particularly applies in the event of breaks, when power drain is at full level and no paper is produced.

## Environmental performance

Environmental reporting is done in a global data base. Incidents are categorized from 1 (insignificant) to 5 (serious impact on environment). As in the last years, we did not have any incident with impacts outside the mill's premises (cat.3 or higher).

Altogether there were four deviations in category Clean Run 2:

- When the UPM pre-sewage treatment plant started up during a shutdown, significantly more wastewater than usual was transported to the Yncoris sewage treatment plant. The announcement of this was imprecise, almost resulting in exceeding the limit values. This could be avoided by appropriate discharge

into intermediate containers. A warning with the maximum start-up quantities was added to the process control system.

- During firefighting in the recovered paper hall, a large amount of extinguishing water was accumulated. After the rainwater sewer system had been closed early, the water was temporarily stored in the rainwater sewer in front of the sewer bladder. After the necessary sampling, which revealed only small amounts of pollutants, the extinguishing water was taken to the Yncoris sewage treatment plant as an admixture to the process wastewater with approval by the authorities.
- Unloading of chemical containers outdoors contrary to the relevant work instructions. The employees in this area were re-instructed immediately.
- When an IBC container with yellow color was replaced, it was contaminated from the outside. The employee took the container to the container rinsing station, where he not only rinsed the outside, but also the inside. Thus he contaminated the wastewater because he had underestimated the amount left in the container. Yncoris was informed, the contaminated water was temporarily stored, diluted and enriched with fibres after prior consultation with the sewage treatment plant and could thus be professionally clarified. There was no environmental damage, the corresponding emergency concept worked well.

In order to renew a pipe, the existing biocide pipe was mistakenly dismantled while the plant was in operation, despite compliance with the corresponding log-out tag-out procedure. Since this error was noticed early enough, the system was safeguarded before an uncontrolled escape of biocide occurred.

In addition, sanitary water usage increased significantly in spring due to an undiscovered defective toilet tank.

"Oil spills" continue to be a major issue in environmental observations. The corresponding working group has largely completed the tasks at the winder and

- ▶ started working on the packing machine. The necessary tasks at the paper machine are currently determined.

Regular cleaning and treatment of the wastewater line before entering the wastewater treatment plant and cleaning of the cooling system of the plant made it possible to prevent legionella limit value exceedances that had to be reported during this year, too.

Due to the very positive impression during the environmental inspection by the district government, the mandatory inspection interval was extended from one to three years.

The drinking water pipes in the administration could not yet be released because a final measurement is still pending.

The usage of additives could be further optimized. After commissioning the whiteness control in March, which regulates the mode of operation of the flotation and the use of additives depending on the brightness of the recovered paper stock, an increasing amount of filler was dosed into the paper over the course of the summer. This way, post-bleaching with sodium dithionite could entirely be avoided.

The qualification of a recycling phosphoric acid had to be further deferred because there is currently no corresponding product on the market. We have continued to use recycled urea as long as the product has been available.

### Environmental projects

The following environmentally relevant projects have been worked on in 2022:

- UPM's work on connecting to the new GSH (Green Steam Hürth) biomass power plant has been completed. The start-up is planned for autumn 2023.
- The "whiteness control" project has been completed. The measuring points were calibrated in the first quarter, and the control system has been in operation since March 1st.
- The long-term trial of using a whiter filler and increasing its dosage to improve brightness (thus reducing the use of bleach) and for raw material substitution has been successfully completed. Whiteness control and filler dosing together have various environmentally positive aspects: Improved stock yield by reducing fibres loss in flotation, lower use of additives resulting in avoidance of the use of bleaching agents and reduced energy consumption due to easier drying of the filler compared to the fibre. Further electricity need in the DIP system is eliminated for the amount of filler used. The energy savings can hardly be quantified due

to the system variances, especially the RCP quality.

- The master's thesis on optimizing machine operation from an energetic point of view was completed. The relevance of various influencing factors on the operating parameters of the most important energy consumers in the plant was analyzed and presented in a correlation matrix. In addition to the technical challenges (data access, provision and transfer, data history, interface protection, etc.), another challenge arose from the data selection. The results enable us to evaluate energetic consumption down to the level of individual drives. Based on the knowledge gained, further optimizations to increase energy efficiency can be planned.
- Reject sorter stage 3 could be switched off, saving the corresponding amount of electricity.
- A project to stop all compressed air leaks in the plant was completed with external assistance.
- A test run of the "Level 2 PM" project has been started. Here, an intelligent control of the heating of the drying cylinders and the moisture content of the hood air shall contribute to saving steam – on the one hand through optimal evaporation, on the other hand through the best possible utilization of the heat exchangers in order to keep the evaporation energy in the system. After the first promising results, verification is still difficult.
- The new route for sludge treatment was established in the neighbouring RWE Goldenberg power plant. In 2022, around 16,000 tons of sludge could be delivered there. For 2023 we plan to deliver the entire amount of sludge to RWE. If all the sludge was burned in

Knapsack in the future, this would save around 720,000 truck kilometers per year – a lot of CO<sub>2</sub> and an immense relief for regional traffic.

- The chemical database has been converted to the new global UPM standard in the Global Chemical Database. It will enable quick and comprehensive access to the necessary data for all employees.

### Legal amendments and compliance

All amendments of law and changes in jurisdiction are taken into consideration. This is done via the index of legal provisions delivered by Uniconsult, information letters from the German Paper Association (Die Papierindustrie) and from the Employer's Liability Insurance Association (BGR-CI), as well as from UPM networking and the participation in the paper association's professional bodies.

For the first time, corporate due diligence requirements for respecting human rights and protecting the environment have been comprehensively regulated by the supply chain due diligence law (Lieferkettensorgfaltspflichtengesetz LkSG). The requirements of the law have been and are being implemented by UPM for the entire group. Measures include the Human Rights Strategy Policy Statement, the Framework for Sustainable Supplier Management, the UPM Code of Conduct for Employees and a reporting system for misconduct or concerns in the areas of sustainability and compliance. All employees are regularly trained according to their authority to decide.

Changes in the legislation regarding Covid-19 have been discussed in the responsible team and were implemented when necessary.



*Armin Schmidt*  
Armin Schmidt,  
General Manager

*Guido H. Clemens*  
Guido H. Clemens,  
Manager Technology & Environment

# Contribution to UN Sustainable Development Goals in 2022\*



## Waste

All production waste is

# 100%

thermally exploited or recycled.



## Air

Since 2005 carbon dioxide emission from steam and electricity has been reduced by

# 70%



## Water

Since 2005 specific water usage has been reduced by

# 36%

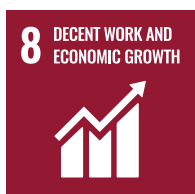


## Energy

Specific energy consumption has been decreased by

# 26%

since 2005.



## Safety

Until the end of 2022 the mill has worked

# 277 days

The longest period without accident in the mill lasted for 1,446 days.



## Certified fibre

Hürth raw material is

# 100%

recovered paper and certified according PEFC™ oder FSC® Chain of Custody.

\*Reference year for all usage data is 2005

# Air



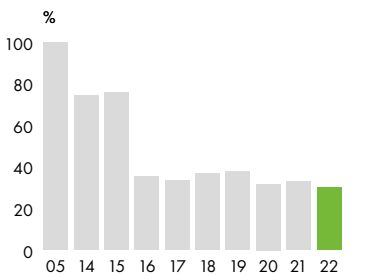
UPM Hürth does not operate an own power plant, so all fossil CO<sub>2</sub> emissions are categorized scope 2 under the GHG protocol.<sup>1)</sup> CO<sub>2</sub> emissions for heat are disclosed by energy supplier RWE/ Kraftwerk Goldenberg and published in this report. Electricity is bought from supplier Lechwerke, the corresponding emissions are shown in the UPM global environmental report.

The change of sourcing electrical power in 2019 has resulted in a remarkable decrease in CO<sub>2</sub> emissions related to paper production at Hürth. Besides sourcing actions, UPM Hürth can only indirectly influence energy related emissions by increasing the energy efficiency of its production. The related targets are followed up constantly, the most important tools being optimization of heat recovery and the paper machine's operation mode.

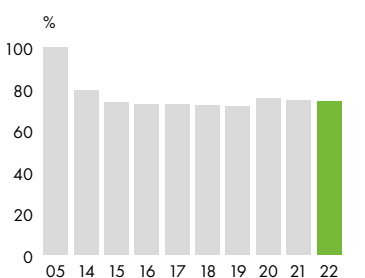
Energy company GSH is building a new biomass power plant on former UPM Hürth mill ground. The new power plant will deliver nearly CO<sub>2</sub> neutral steam to the mill. This will significantly decrease the CO<sub>2</sub> footprint of paper production at Hürth and make production at Hürth almost climate neutral.

<sup>1)</sup> Emissions from the annual test operation of the emergency power system are negligible.

**Specific CO<sub>2</sub> emission from steam and electricity**  
(t CO<sub>2</sub>/t Paper) in % compared to 2005



**Specific total energy consumption**  
(MWh/t) in % compared to 2005



# Waste



UPM Hürth uses 100% recovered paper as a raw material. Most of the waste generated in the process consists of fibres not suitable for recycling, printing ink and mineral residues (deinking sludge). The second important waste type is material like plastic foil, inlays and CDs (rejects). These two kinds of waste account for than 99% of the waste generated.

Due to the shortage of recovered paper grades of high quality it has been necessary to accept lower paper qualities for the process.

We have been counteracting this problem with various measures since 2021, for example with the newly installed whiteness control to avoid unnecessarily high losses in flotation, special measures against the bitumen load, manual bale opening against wires in stock preparation and with supplier audits. Due to these measures and the positive effects of the filler project on the yield, recovered paper loss has been reduced again.

Sludge is not only been used for heat exploitation in power plants but also recycled in two different ways: Some sludge is used by brick manufactures as a porosity additive: During stoving of

bricks the fibre fraction is burned and leads to small holes in the brick which improve the isolation capacity of the walls built from it. The ashes remain as high-quality filler in the brick. A specialized facility that combines thermal and material recycling produces a special cement by burning the organic parts of the sludge.

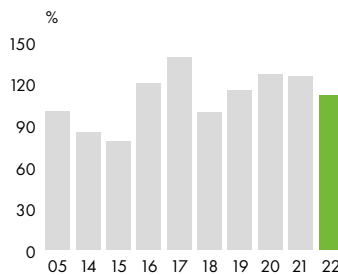
The amounts processed in this facility have been systematically reduced since 2021 because a possibility for thermal recycling became available. This saves 165 km of truck distance for every load and the corresponding CO<sub>2</sub> emissions.

The specific sludge amounts were slightly reduced by optimizing the operating mode.

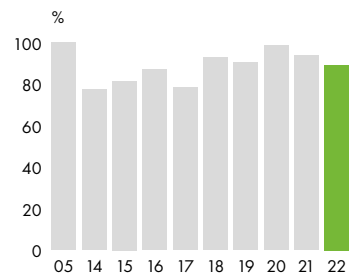
The specific reject quantities decreased slightly. This is due to the measures taken to optimize RCP receipt control. All rejects are recycled thermally in a adjacent power plant.

No waste is brought to a landfill. Hazardous waste is handled by a licensed contractor for disposal and is disposed off according to governmental regulations.

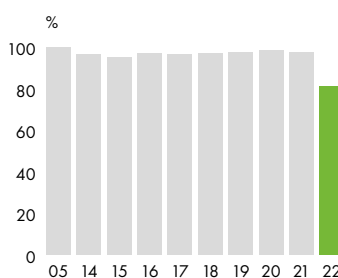
**Rejects,**  
specific Data in % compared to 2005



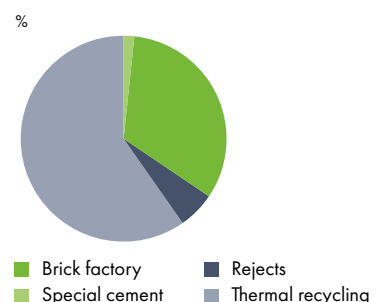
**Sludge,**  
specific Data in % compared to 2005



**Spec. RCP usage**  
per tonne in % against 2005



**Waste recycling 2022**



# Water



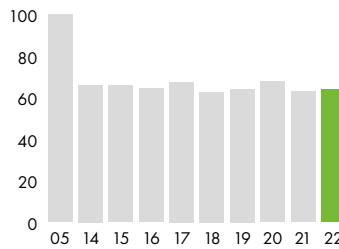
The water for the production process comes from a deep well and is recirculated to keep consumption on a low level. The well water has a low temperature and is first used for cooling, and then for the production process. Here it runs several cycles of usage in the different water cycles of paper machine and de-inking plant. After pre-treatment at the mill it is directed to the water treatment plant in the adjacent chemical industrial park.

The limits set by the authorities (450 m<sup>3</sup>/h and max. 30°C) were not exceeded. The decrease of temperature in PM water cycle since 2015 has effectively prevented passing the temperature limit. There also were no violations of limits by the chemical park's waste water plant.

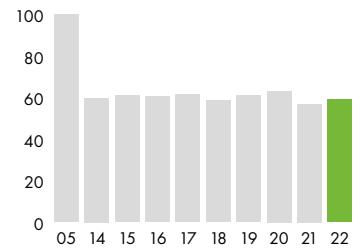
The consistent usage of the water from the PM cycle in the DIP cycles and for dilution of additives has led to a continuous reduction of the fresh water need

for the paper production over the years. The specific consumption value could be kept on the low level of the previous year.

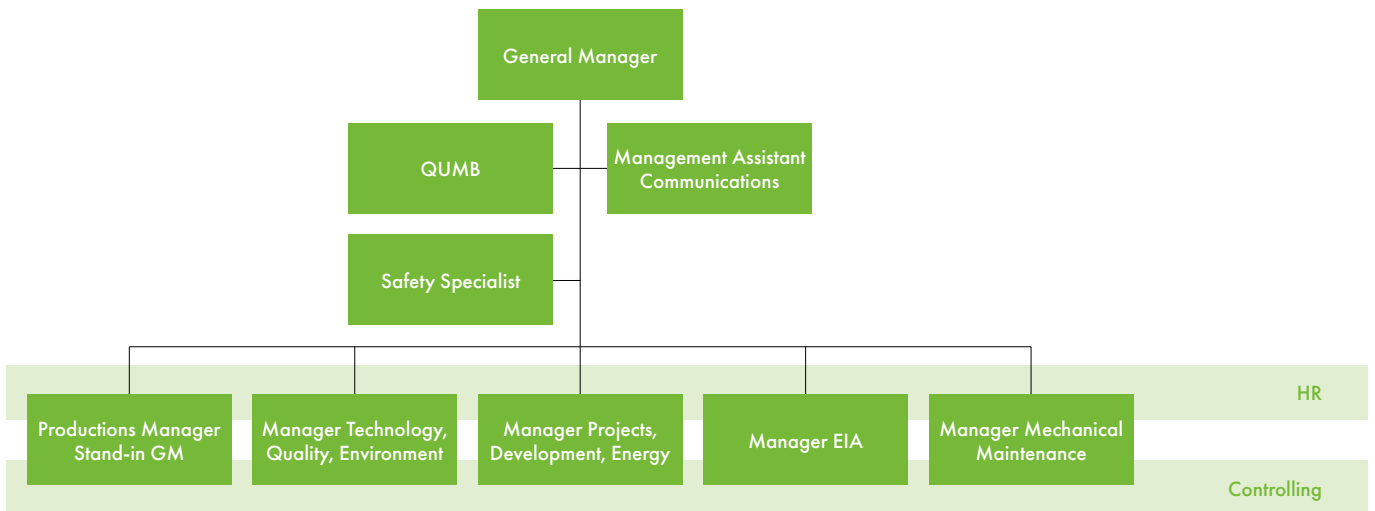
**Specific Usage of Process Water**  
(m<sup>3</sup>/t) in % compared to 2005



**Specific Waste Water Amount**  
(m<sup>3</sup>/t) in % compared to 2005



## Organisational structure and emergency organisation



Authorized representatives have been appointed for production facilities and minor facilities relevant for environment.

Statutory representatives advise the General Manager and the departments about fire protection, waste, dangerous goods, radiation protection and rail traffic on mill grounds.

There also are representatives for the management systems quality and environment ("QUMB") and for energy, OHS and data security.

For emergencies of all kind – e.g. fire, accidents or environmental incidents – detailed emergency plans are defined. Specifications for the whole process from the alarm system and immediate actions until the wrap-up help to mini-

mize the possible outcomes of the emergency case. At the shift coordinator's office there are checklists and detailed flow charts for different cases. For major incidents a crisis team is defined that decides about the necessary actions and cares for implementation.

In 2022 all employees were trained regarding fire protection and emergency management.

# Societal responsibility

Nowadays sustainable business management is not restricted to environment friendly ways of production but is extended to many other business areas as compliance, human resources management, OHS or the contributions to societal life outside the company itself.

The bigger part of these tasks is managed by the UPM Group for its companies, but the individual business units have their own share in it, too.

## Occupational Health and Safety

Safety first. This imperative is valid for every work in the mill and under all circumstances. A management system for OHS is the basis of our daily work and gives everyone his roll and his responsibilities – from the General Manager to the superiors and the operators at the machine.

Main pillars of the system are the UPM Safety Standards, the superior’s safety walks which ensure the proper ways of working and the employee’s safety observations. Especially the latter are important – on one hand to review rules and facilities for safe working, on the other hand to derive preventive measures against accidents, just as by the analyses of accidents or near misses. In 2022 we could register more than 500 such observations.

A work accident unfortunately occurred in March 2022, when an employee injured a colleague’s forearm with a knife during cleanup work in the break room. Since then, work at the plant has been accident-free.

It is important to us to support our employees in maintaining a healthy lifestyle. We do this with a wide variety of measures: Free mineral water and standstill drinks, vaccination offers and a subsidy for physical activity are examples. In 2022, prevention days were held on a rotational basis, with the opportunity to take part in screening examinations for colorectal and skin cancer and flu vaccinations.

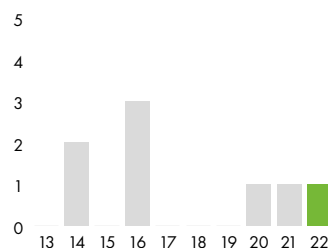
At the beginning of the summer, a training session was held on the topic of “Drinking enough and Drinking properly”.

## Open doors for our Neighbours

After being unable to allow any visits to the plant for three years due to the corona pandemic, we responded positively to all tour requests made in 2022. Among others, neighbours from Berrenrath and retirees from the adjacent chemical park visited the mill.

At the same time, regular student excursions by RWTH Aachen University and Munich University of Applied Sciences were also resumed.

Accidents at work with 24 hours or more lost working time



EXPENSES FOR WORKPLACE HEALTH PROMOTION 2022	EUR
Support sports club	19,350
Free mineral water	4,570
Shutdown beverages	5,274
Weekly fruit basket*	0
Health Day	2,313
Individual protection or screen glasses / ear protection	7,587
Medical Service and Prevention	12,004
<b>Sum</b>	<b>65,438</b>

EXPENSES FOR PREVENTION MEASURES COVID-19 PANDEMIC SITUATION	EUR
CoVid-19 test kits for personnel	14,340

\*stopped during Covid crisis due to hygienic standards



The environmental group of Albert-Schweitzer-Gymnasium Hürth visits the mill





UPM fund raising for humanitarian aid in Ukraine

**Biofore Share and Care Programme**

Building and maintaining good relations with local communities close to our operations and supporting the vitality of these communities are essential for us and for our business success. One way of engaging with society is through sponsorships and donations.

UPM’s Biofore Share and Care programme reflects our commitment to building a sustainable, innovation-driven future by sharing our expertise and assets for causes we care about. The focus areas are: Reading & learning, engaging with communities, responsible water use and boosting bio-innovations.

UPM’s support can take different forms in different projects. It can be a cash contribution to support community projects, membership in community-related organizations, donations of products or materials, employee volunteering or fundraising. Local sponsorship is targeted on chosen projects and aims at long-term involvement in the community where UPM operates.

In addition to donating paper to kindergartens, UPM Hürth also sponsors newspapers for three schools in Hürth. There, the students have the opportunity to deal quietly with political issues, to recognize fake news and hypes and to form their own opinion – and all this

using truly sustainable media. We also want to engage in direct contact with the schools. A first visit took place in November 2022.

**The war in Ukraine**

The war in Ukraine and the consequent humanitarian crisis has shocked, but also united people and the communities all over the world. Also UPM engaged for those in need. To complement our existing efforts, UPM has decided to set up a dedicated online fundraising platform in collaboration with the Red Cross. The support given will be directed towards humanitarian work in Ukraine via the Red Cross’s Disaster Relief Fund. UPM matched every Euro given by UPM employees by two more. Altogether 188.980 Euros were donated to the Red Cross.

**Environmental campaign for the employees**

Creating and keeping up awareness for the environmental impacts of production is an important task of sustainability management. Doing this in a new, playful and interactive way was the focus of the campaign „Who wants to be a ‘Müllionär’?“. Modelled on an Exit game, employees had to find different codes leading to a solution to take part in a small raffle. At the same time, each task imparted knowledge about “Waste management – what has to be disposed of, how and where?”.



Raffle at the end of the environmental campaign

# 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.

		2020	2021	2022
<b>Production capacity</b>		330,000 t	330,000 t	330,000 t
<b>Raw materials</b>	Recovered paper Additives	See UPM Corporate Environmental and Societal Responsibility Statement for more information		
<b>Energy</b>	Fossil fuel Purchased power	See UPM Corporate Environmental and Societal Responsibility Statement for more information		
<b>Emission to air</b>	Carbon dioxide, CO <sub>2</sub> (fossil) <sup>1)</sup>	57,441 t	63,167 t	44,448 t
	Nitrogen oxide, NO <sub>x</sub> <sup>1)</sup>	27.32 t	21.08 t	16.74 t
	Sulphur dioxide, SO <sub>2</sub> <sup>1)</sup>	19.13 t	11.37 t	8.12 t
	Particulate	0.68 t	0.60 t	0.67 t
	Carbon monoxide, CO <sup>1)</sup>	2.7 t	2.24 t	1.31 t
<b>Water intake</b>	Process Water	1,716,603 m <sup>3</sup>	1,731,386 m <sup>3</sup>	1,741,836 m <sup>3</sup>
<b>Waste water discharge to external effluent treatment</b>	Effluent volume from process and sanitary	1,404,942 m <sup>3</sup>	1,378,910 m <sup>3</sup>	1,424,933 m <sup>3</sup>
	COD	1,758 t	1,709 t	1,491 t
	Phosphorus	1.614 t	1.894 t	1.813 t
	AOX	0.272 t	0.286 t	0.230 t
<b>Non-hazardous waste</b>	Waste to recycling, energy recovery, and or composting			
	– White Pulp	729 t	0 t	0 t
	– Sludges	84,311 t	86,585 t	82,379 t
	– De-inking residues, non fibrous	5,289 t	5,624 t	5,028 t
	– Bark and wood waste	26 t	30 t	33 t
	– Metals	247 t	377 t	391 t
	Waste to incineration without energy recovery			
	– Domestic Waste	33 t	32.7	36.4 t
	– Others	136 t	132 t	205 t
<b>Hazardous waste</b>		19.97 t	19.83 t	19.97 t
<b>Land use</b>	Total use of land	10.58 ha	10.58 ha	10.58 ha
	Total sealed area	8.45 ha	8.45 ha	8.45 ha
	Total nature-oriented area on site	1.73 ha	1.73 ha	1.73 ha
	Not defined	0.4 ha	0.4 ha	0.4 ha

<sup>1)</sup> Values resulting from heat consumption. For information about electrical power see UPM Corporate Environmental Statement.



# Performance against targets in 2022

TARGET	ACHIEVEMENT	COMMENTS
Engineering and implementation of GSH power plant connection	yes	Preparation work for steam and condensate connection done
electrical power usage ≤ 0.850 MWh/t	no	reached 0,904 MWh/t
steam usage ≤ 0.780 MWh/t	no	reached 0,732 MWh/t
water usage ≤ 7.2 m <sup>3</sup> /t	no	reached: 6,9 m <sup>3</sup>
Clean Run Kat. ≥ 3 = zero	yes	reached: zero

## Targets for 2023

TARGET	DEADLINE	ACTIONS TO BE TAKEN / RESPONSIBLE
Exemplary elaboration of a CO <sub>2</sub> footprint for newsprint from the raw material to the end user with Hürth paper mill as an example. A step on the way towards CO <sub>2</sub> neutral paper production.	31.12.2023	Cooperation with a major customer Manager Energy / Manager Production
electrical power usage ≤ 0.835 MWh/t	31.12.2023	Level 2 PM, improve break situation Manager Energy / Manager Production
steam usage ≤ 0.760 MWh/t	31.12.2023	Stable operation mode without too many shutdowns. Enzyme trial analysis and possibly continuation Manager Energy / Manager Production
water usage ≤ 6.7 m <sup>3</sup> /t	31.12.2023	Continue encouragement for environmental observations and handling those, methodical inspection, working group oil leakages. Manager Technology, Environment, Quality
Clean Run cat. ≥ 3 = Zero	31.12.2023	Continue encouragement for environmental observations and handling those, methodical inspection, environmental action day Manager Technology, Environment, Quality



### Environmental verifier's declaration on verification and revalidation activities

Environmental verifier Wolfgang Wielpütz (DE-V-0046), acting for TÜV NORD CERT Prüf- und Umweltgutachtergesellschaft mbH, licensed for the scope NACE Code 17.12 (papermaking), declares to have verified whether the site UPM Hürth/Rhein Papier GmbH, Bertramsjagdweg 12, 50354 Hurth, Germany as indicated in the updated UPM Corporate Environmental and Societal Responsibility Statement 2022 of the mentioned site (registration no. FI-000058), meets all requirements of Regulation (EC) No 1221/2009 of the European Parliament and of the Council of 25 November 2009 as amended by Regulation (EU) 2017/1505 and Regulation (EU) 2018/2026 of the commission on the voluntary participation by organisations in a Community Eco-Management and Audit Scheme (EMAS).

By signing this declaration, I declare that:

- the verification and validation has been carried out in full compliance with the requirements of Regulation (EC) No 1221/2009,
- the outcome of the verification and validation confirms that there is no evidence of non-compliance with applicable legal requirements relating to the environment,
- the data and information of the updated Environmental Statement 2022 of UPM Hürth/Rhein Papier GmbH, reflect a reliable, credible

and correct image of all the activities of UPM Hürth/Rhein Papier GmbH, within the scope mentioned in the updated Environmental Statement 2022.

This document is not equivalent to EMAS registration. EMAS registration can only be granted by a Competent Body under Regulation (EC) No 1221/2009. This document shall not be used as a stand-alone piece of public communication.

Essen, July 19, 2023

Wolfgang Wielpütz  
Environmental verifier  
DE-V-0046  
TÜV NORD CERT Prüf- und Umweltgutachtergesellschaft mbH



[www.upm.com](http://www.upm.com)

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