

**UPM Plattling** 

## ENVIRONMENTAL AND SOCIETAL RESPONSIBILITY 2021





## **UPM Plattling**

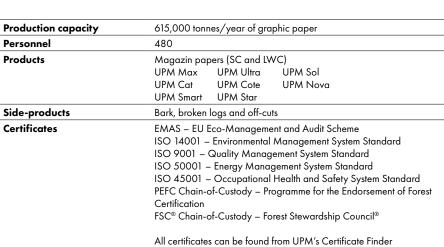
UPM Plattling is located north of Plattling, a small town at the foot of the Bavarian Forest, where the Isar flows into the Danube. With a workforce of nearly 480 people and two paper machines, UPM Plattling produces up to 615,000 tonnes annually of uncoated (SC) and coated (LWC) supercalendered printing papers in reels and sheets for magazines, newspaper supplements, advertising brochures and sales and mail order catalogues.

The organisation of UPM Plattling includes the two production lines of Rhein Papier GmbH. The Plattling site was founded in the open countryside in 1982. It was originally comprised of the paper machine (PM) 10 to which the PM 11 was added in 1988. In 2007 the mill was expanded to include PM 1 paper machine. The PM 10 was closed in July 2019.

The raw materials used for papermaking include groundwood pulp, recovered paper, chemical pulp and natural pigments. Groundwood pulp is mainly made from forest thinnings and rolled timber from the surrounding areas. All wood fibres used in our production come from sustainable forestry. 99,9% of the water required for papermaking is taken from the Isar and only to a very small extent from a well on mill site. Process effluents are cleaned in two on-site treatment plants before they are discharged back into the Isar.

All of the steam and the majority of the power for the production processes are generated in the mill's co-owned combined heat and power plant running on natural gas. The remainder of the power is supplied via the public grid.





(available at www.upm.com/responsibility)

EU-Ecolabel (EU-Flower)



UPM Plattling Environmental and Societal Responsibility 2021 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 millspecific environmental and societal performance data and trends for the year 2021. 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 2023.

UPM delivers renewable and responsible solutions and innovate for a future beyond fossils across six business areas: UPM Fibres, 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 17,000 people worldwide and our annual sales are approximately EUR 9.8 billion. Our shares are listed on Nasdag Helsinki Ltd. UPM Biofore - Beyond fossils. www.upm.com



The mark of responsible forestry

For more information about FSC certification visit www.fsc.org



For more information about PEFC certification visit www.pefc.org



**Environmental labels** 

## Review of the year 2021

Environmental protection is an integral part of all papermaking processes. UPM Plattling has reported its environmental performance since as far back as 2000, when the site successfully gained certification to ISO 14001 and the EU Eco-Management and Audit Scheme (EMAS). As a company of the Finnish UPM Company we want to demonstrate to our customers, suppliers, employees and the general public that responsible environmental protection is given high priority in our production processes. The continuous improvement process focuses on continuously reducing the demand for energy and water, maximum waste avoidance and the use of environmentally friendly auxiliary materials. Every year, we set ourselves ambitious new environmental goals.

The year 2021 was again shaped by the global pandemic and its impact on global supply chains, as well as price increases for raw materials and energy.

As in the previous year, the impact on the health protection of our employees and the business continuance at the Plattling site were well managed. The consistently applied protective measures minimised the risk of infection with the Covid virus throughout the year and created safe working conditions at the site. The very low number of infected employees in 2021 is also evidence of our successful occupational health and safety activities. Environmental performance remained stable compared to the previous year. Nevertheless, there were deviations in the area of the wastewater treatment plant in the reporting year. Further process optimisations in the production cycle, both implemented and planned, should also contribute to a continuous improvement of the situation at the site in this area.

#### **UPM Clean Run Campaign**

The Group-wide Clean Run Campaign is aimed at ensuring environmentally sound production without environmentally relevant incidents. The mills are audited with regard to their environmental performance and assisted in their further development. The air emission limit values set in the BlmSch permits of the power generation plants were complied with. The discharge limits specified in the water law permit were not complied with twice during the year. Minor technical faults in the wastewater treatment plant with a simultaneous high load led to the BOD, permit limit being exceeded in both cases. The requirements of the 42<sup>nd</sup> BlmSchV for the proper operation of evaporative cooling towers will continue to be implemented. The cooling circuits are continuously monitored and effectively conditioned. In isolated

cases the measured value of legionella was exceeded in the evaporative cooling systems of the PM 11 vacuum systems. With cleaning, disinfection and modification of the biocide conditioning, as well as technical optimization of inadequately working separator systems, the system has improved significantly over the year.

## Legal requirements and compliance

UPM Plattling is informed of relevant changes or amendments to legislation by an external service provider. This is done through a monthly newsletter, which is supplemented by circulars from various industry associations. The legal cadastre with all legal provisions applicable to the site is maintained on an Internet platform. There were no major effects regarding the site in 2021 due to changes in legislation. Apart from two minor violations of limits in the wastewater effluent, all legal obligations were met

#### Stakeholder feedback

There was an anonymous noise complaint in June. During an immediate inspection of the plant premises, no noise source could be identified. Due to the anonymity, no further contact could be made with the complainant to clarify the facts.

There were some reports of malodour from a neighbor located directly to the wastewater treatment plant, with a focus on May / June as well as October and December. The primary clarifier of the wastewater treatment plant of one paper machine line was identified as the source. The wastewater from the paper machine shows a recognizable odor development, especially during shutdown processes, caused by anoxic/ anaerobic processes. The mill development department has started a project to prevent odor-forming milieu in the water circuit of the paper machine and the waste water system. In addition to monitoring volatile gases together with further



Sebastian Loewenberg, General Manager Wolfgang Haase, Manager Environment  chemical/physical analyses, various measures to reduce microbiological activities were also tested.

#### **Environmental performance**

The energy savings target was achieved with 44.5 GW more than expected. This is mainly due to the increasing use of low-energy grinding technology and steam savings in the dryer section of the paper machine.

The specific COD content of the mill's wastewater was reduced by 25%, caused by a quality-optimized peroxide bleaching and good efficiency of the wastewater treatment plant.

The number of environmentally relevant observations from the employees was increased by 86%. There were numerous hints on how to avoid environmental pollution and improve environmental performance.

The completion of the transfer pipeline in the middle of the year connected the water and raw material systems of the two paper machines. With this it is possible to reduce fiber and filler losses and further reduce fresh water consumption. Initial successes have already been achieved.

#### **UPM Plattling**

# Contribution to UN Sustainable Development Goals in 2021



## **Energy**

District heating from excess heat

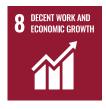
28,221 MWh

supplied to nearby dairy and asparagus growers to enable earlier harvesting

**About** 

44,489 MWh

energy savings could be realized in 2021



#### Health

In autumn

about 2,600

apples, bananas and oranges were offered free of charge as a "vitamin injection" to the employees

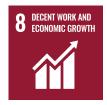


### Recovered paper

In 2021

## about 11 billion

paper labels removed from bottles were recycled to produce high quality fibre raw material



## Safety

Reduction of lost time accidents by

66.6%

compared to 2020

In 2021 the employees mad

1,503

safety and enironmetal observations



### Raw materials

In 2021, the proportion of certified fibres used for papermaking was

**76%** 



#### Waste

All of the Plattling mill's production waste is

100%

recycled as material or incinerated with energy recovery

Amount of hazardous waste reduced by

**57%** 

compared to 2020

Material losses reduced by

30%

compared to 2020



## Community

UPM's sponsorship supports around

129

active member of the sports club (former mill sports club)



#### Water

Spezific load in treated effluent (kg per tonne of paper)

COD reduced by

**25%** 

in the period 2013-2021

## Air





Energy generation is the primary source of airborne emissions from the paper mills. Through improving the energy efficiency of our production lines and using nothing but natural gas as a fuel we were able to maintain emissions on an acceptable level over the years.

In April of 2010, a new gas and steam turbine power plant servicing the whole site went on line, replacing eight gas fired steam boilers which are partly used as a backup source in the event of a power plant failure.

Due to the combined power and steam generation, the new power plant is much

more efficient (by up to 85% in terms of primary energy use) than the steam-only boilers. Due to the implementation of various energy efficiency projects, all energy-related key figures improved in 2021 compared to 2020, with the exception of the specific electricity consumption of PM 11.

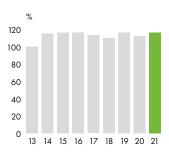
The year 2020 is defined as the reference year for evaluating the energy performance. In 2019 PM10 was shut down with a significant impact on the plant's environmentally relevant key figures. For the consideration of the development trend, the year 2013 continues to be used.

In 2021, the specific emission loads of the power generation plants were slightly above the level of the previous year for calculated  $\mathrm{CO}_2$ ,  $\mathrm{SO}_2$  and measured  $\mathrm{CO}$ . The reason for this is that the gas turbine was operated more frequently at partial load in the operating year and the less  $\mathrm{CO}$  emitting auxiliary firing was reduced to a minimum. Preferential gas turbine operation causes lower  $\mathrm{NO}_\chi$  emissions.

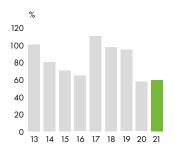
EMISSIONS FROM THE POWERPLANT										
	Limit value (mg/Nm³) Mean values measured (mg/Nm³)									
		2013	2014	2015	2016	2017	2018	2019	2020	2021
СО	100	7.2	3.6	2.9	3.1	<i>7</i> .1	6.6	6.5	2.6	2.8
NO <sub>x</sub>	50 (variable depending on supplementary firing)	24.8	23.2	27.8	31.3	44.4	40.4	28.7	25.0	24.0

EMISSIONS FROM THE STEAM BOILERS										
	Limit value (mg/Nm³) Mean values measured (mg/Nm³)									
		2013	2014	2015	2016	2017	2018	2019	2020	2021
СО	50	2.5	2.7	4.3	4.3	4.8	3.4	2.7	1.6	1.1
NO <sub>x</sub>	100	77.6	71.6	71.6	72.4	75.5	84.7	78.6	78.2	79.7

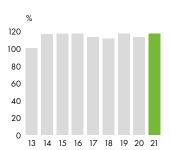
#### Fossil carbon dioxide, CO,



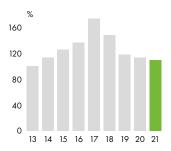
#### Carbon monoxide, CO



#### Sulphur dioxide, SO



#### Nitrogen oxide, NO,



All graphs show the specific emissions per MWh of produced energy on site in comparison with 2013

## Waste



In keeping with the concept of circular economy, the majority of production waste is recycled locally. Hazardous wastes are forwarded exclusively to specialised waste management companies to be recycled or disposed of in accordance with legal requirements. The specific total residual material volume including by-products in 2021 was at the previous year's level. There was a decrease of almost 80% in the specific fiber residues. The reason for this is the connecting pipeline between PM1 and PM 11, which was put into operation in 2021 and has improved the prevention of fiber losses into the wastewater treatment plant. Residual materials from recovered paper processing have increased by about 10%. The general shortage of waste paper has had a negative effect on the quality of the available grades and therefore on the

A reduction of 57% was achieved for hazardous waste. The recycling rate with regard to all residual materials in 2021 was 99.98%, which is the very high level that has been maintained for years. No process waste was sent to landfills.

## Water



UPM Plattling drew 99.9% of the needed process water from the River Isar. The remaining 0.1% to cover short-term peaks in demand was pumped from an on-site well. In a modern process water preparation plant, particulate contaminants are removed from the river water and hardness is reduced to a lower level via cation exchangers.

The process water is first used as cooling water and then for the production process. The specific wastewater volume was around 3% below the previous year's level. The transfer line commissioned in 2021 enables an exchange of furnish and water between the two paper machines, which will have a positive effect mainly on the high specific fresh water consumption of the LWC line.

The mill's wastewater treatment plant operated mostly trouble free throughout the whole year, with the exception of a few isolated incidents. After two years

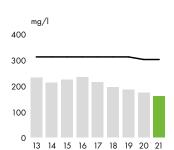
of operation without any limit breaches, there were two exceedances and one near miss for the parameter BOD<sub>c</sub>. This was due to high filler contents in the biological stages, breakdown of an aeration units, high load peaks and insufficient nutrient supply. The BOD, measured with a time lag of five days often shows higher values, while the currently measured COD/TOC is clearly below the limit value. Here, the risk can be seen that limit violations may occur in difficult operating situations. As a measure, the nutrient dosing system was equipped with an improved control system, early warning systems were established and the crew was trained to deal with operational disturbances.

The high outdoor temperatures in the summer months resulted in effluent temperatures close to the limit. However, due to the elimination of the heat load from PM 10, the cooling system has a sufficient capacity.

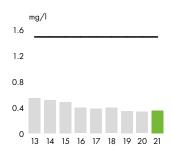
COD concentration and load were significantly reduced. Nitrogen and phosphorus increased slightly due to increased nutrient supply to ensure efficient biodegradation processes. The specific wastewater volume was reduced due to the completed water and furnish connection of the two production lines. The target level of 2018 could not be reached, because after the closure of PM 10 all auxiliary plants of the LWC line, such as woodyard, boiler house, deinking plant and coating color preparation, continue to generate wastewater, which is now related to a significantly lower production volume. Further optimization projects to save water are planned.

#### Emissions from the joint waste water treatment plant

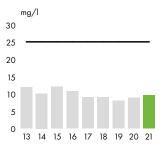
## Chemical oxygen demand,



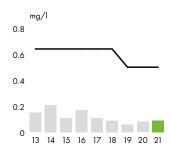
#### Phosphorus, P



#### Biological oxygen demand, BOD<sub>5</sub>



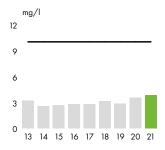
## Adsorbable organic halogen compounds, AOX



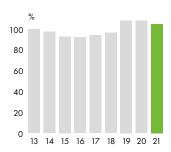
- limit value

Developmet of waste water volume per tonne of paper in comparison with 2013

#### ial oxygen I, BOD<sub>5</sub> Nitrogen (inorganic), N



#### Specific waste water



## Societal responsibility

#### Safety first!

For many years, the Plattling site has been working to improve occupational safety. The safety initiative launched at UPM in 2012 resulted in the implementation of safety standards that went beyond the legal requirements. Since then, workplace inspections by managers, targeted discussions on occupational safety topics and documentation of safety observations of all employees have been carried out. The aim is to further increase and promote the awareness of employees regarding unsafe conditions and actions. An intensive exchange of experience with other UPM mills on accidents and incidents with high risk potential as well as cross-mill safety audits help to gain knowledge and findings from other mills and thus to be able to counteract possible threats in advance.

In retrospect, there has been a significant decrease in the number of accidents at the mill compared to the previous year. The number of accidents with lost time improved from 3 to 1. This was a minor accident. We came a significant step closer to our target of "O accidents".

We will continue to work intensively to avoid accidents completely and to emphasise occupational safety as the most important management task.

#### Preventive healthcare

We spend a large part of our lives at work, where the workplace conditions can impact our health either positively or negatively. Healthy, resilient and motivated employees are important for the success and competitiveness of our mills. Therefore, we want to create health-promoting conditions for our employees, increase their health awareness and thus also strengthen and maintain their satisfaction and motivation.

Therefore we implemented a corporate health management programme with a large number of offerings:

- Campaigns to promote healthy diet and light meals were carried out in the company's own canteen
- Training for in-house paramedics and first aid courses for all employees

Prevention and health promotion are increasingly moving into focus. UPM Plattling offers its employees various preventive examinations, such as bowel cancer screening. As part of the safety

days, blood pressure and diabetes measurements were offered by the company paramedics.

In September, the safety days with an extensive information and hands-on programme with the following main topics took place at the plant:

- Blind spot of logistics vehicles (wheel loaders, forklifts) with cardboard figures.
- Information and visualisation of braking distances of different vehicles
- Information about the AS-Trainer (e-learning)
- Presentation of the 5S method, which ensures smooth work processes on the basis of "lean", proper and clean workplaces, as they only contain those tools and materials that are actually needed for the task at hand.
- Presentation of the fire truck and handling of fire extinguishers by the company fire brigade
- Presentation of PPE and sale of safety items for private use

#### **Engaging with society**

Well-functioning stakeholder dialogue is a key success factor 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 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.

UPM Plattling financially supports the independent sports club MDSC (the former company sports club). For example, every year the MDSC organises a St. Nicholas party with presents and a cultural programme for the children of employees up to the age of 10.

We build a sustainable, innovation-driven future by sharing our expertise and assets for causes we care about. The focus areas of the UPM Share and Care



Programme are: Reading & learning, responsible water use and boosting bio-innovations.

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 employee volunteering. Local sponsorship is target-oriented and long-term involvement in the community where UPM operates.

## Cooperation with schools and vocational training

The Plattling site currently offers vocational jobs as:

- Paper technologist
- Machine and equipment operator



Fire drill during the Safety Days 2021



- Warehousing logistics expert
- Electronics technicians for industrial systems
- Electronics technicians for automation technology
- Industrial mechanic

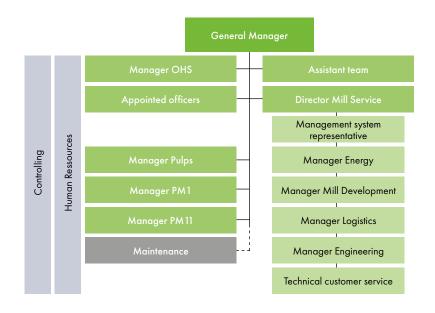
Secondary schools, colleges and universities regularly visit the mill. School

leavers and graduates are addressed at technical symposiums or events held by the paper industry association. In Plattling, like at many other sites, UPM offers young people the opportunity to enter the world of papermaking through summer jobs, internships, traineeships and bachelor and master theses. Our

aim is to build and develop networks to create a sustainable link between schools and industry.

## Organisational structure and emergency organisation

Operators in charge are appointed for environmentally relevant production plants and ancillary facilities. As required by law, appointed officers advise the mill management and the specialist departments in the following areas: immission control and water protection, fire protection, waste, radiation and laser protection, internal rail operations and hazardous goods. In addition, there are designated representatives responsible for the integrated management system (quality, environment, energy and occupational safety). Emergency plans have been defined for emergencies of all kinds, such as fire, environmental incidents and industrial accidents. From alerting to immediate action and follow-up, there are guidelines to minimize the effects of an emergency as far as possible and prevent similar events in the future. For emergencies of a larger scale, there is an emergency staff who decides on any further action to be taken and provides follow-up.



## **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.

		Rhein Papier GmbH			
		2019	2020	2021	
Production capacity	Paper	Up to 714,000 t (3 resp. 2 paper machines)	Up to 620,000 t (2 paper machines)	Up to 615,000 t (2 paper machines)	
Raw materials and additives	Recovered paper Roundwood Chemical pulp		rate Environmental an		
	Pigments Process chemicals Consumables	Responsibility Statement for more information			
Energy	Fossil fuels Purchased power	100% 100% 100% See UPM Corporate Environmental and Societal Responsibility Statement for more information			
Emissions to air	Carbon dioxide, CO <sub>2</sub> (fossil) Nitrogen oxide, NO <sub>x</sub> Carbon monoxide, CO Sulpur dioxide, SO <sub>2</sub>	410,970 t 127.1 t 34.8 t 4.1 t	283,282 t 87.8 t 15.0 t 2.8 t	334,522 t 97.0 17.7 t 3.3 t	
Water intake	Process water Cooling water	0.25 t 9,143,873 m³ 0 m³	0.17 t 8,262,967 m <sup>3</sup> 0 m <sup>3</sup>	0.20 t 8,636,743 m <sup>3</sup> 0 m <sup>3</sup>	
Discharges to water	Effluent volume Chemical oxygen demand, COD Total organic carbon, TOC Biological oxygen demand, BOD <sub>5</sub> Phosphorus, P (total) Nitrogen, N (inorganic) Total nitrogen bound, TNb	8,297,831 m <sup>3</sup> 1,537 t - 66.9 t 2.8 t 23.4 t	7,344,730 m <sup>3</sup> 1,288 t - 65.9 t 2.3 t 25.6 t	7,640,282 m <sup>3</sup> 1,213 t 496 t 73.1 t 2.6 t 29.0 t 33.6 t	
<b>6:1</b> 1 . 1 . 1	Adsorbable organic halogen compounds, AOX	0.53 t	0.56 t	0.68 t	
Side-products and waste <sup>1)</sup>	Total waste volume of which Side-products - Bark and wood residues	170,655 t 101,405 t	159,520 t 98,996 t	172,325 t 112,231 t	
	Waste for recovery  - Deinking sludge  - Fibre residues  - Biosludge  - Wood and bark waste  - Paper recovery rejects  - Scrap metal  - Construction waste  - Other waste  Waste for disposal	23,917 t 17,729 t 24,470 t 190 t 763 t 406 t 31 t 1,601 t 0 t	19,267 t 14,921 t 23,611 t 139 t 608 t 390 t 4 t 1,432 t 0 t	23,247 t 8,979 t 25,392 t 87 t 696 t 356 t 18 t 1,205 t 0 t	
	Hazardous waste Recovery rate (total)	143 t 99.95%	153 t 99.95%	104 t 99.98%	
Size of mill area	Sealed area Nature-oriented area on site Total area	32.3 ha 20.0 ha 52.3 ha	32.3 ha 20.0 ha 52.3 ha	32.3 ha 20.0 ha 52.3 ha	

<sup>1)</sup> incl.moisture



## Performance against targets in 2021

Unless otherwise stated, the reference year was 2020

TARGETS	TARGET ACHIEVED?
1. Water	
After closure of PM10, the specific fresh water demand of the LWC line will be adjusted to the level of 2018 by the end of 2021	The target was not achieved. A quantitative re-evaluation and a follow-up of the target in 2022 and subsequent years is required.
2. Water and Air	
Comply with "CleanRun" provisions (0 category 3–5 deviations)	No. There were two exceedances of the $BOD_5$ permit limit in the effluent of the wastewater treatment plant.
3. Raw materials	
Trials for substitution of caustic soda with ash side products	The target was not achieved because the necessary technical solution could not be implemented.
4. Waste	
- Increasing of dry solid content of primary and bio sludge at least on 1% (points)	No. In both cases, the dry content could not be increased sufficiently due to a fundamental decrease in the fiber content in the wastewater.
– Reduction of the specific $\mathrm{CO_2}$ emissions on the transport of waste disposal by 4%	The necessary shortening of transport routes and the reduction of empty truck running could not be implemented.
– Reduce material losses by 10%	The material losses could be reduced by 30%.
4. Energy	
Reduce energy consumption by 15,000 MWh/a	Yes, the target achievement was clearly exceeded.

## Targets for 2022

Unless otherwise stated, the reference year is 2021

TARGETS	DEADLINE	DEPARTMENT RESPONSIBLE
1. Water Reduction of the specific fresh water demand at the LWC line (< 20 m³/t) Development of a concept for the gradual implementation of further reductions	12/2022	Production (Investments needed)
2. Water and Air Comply with "CleanRun" provisions (0 category 3–5 deviations)	12/2022	Production, Environmental management
3. Raw materials Reduce share of synthetic binders by 2%	12/2022	Production
4. Waste Reduce material losses by 10%	12/2022	Production
5. Energy Reduce energy consumption by 5,000 MWh/a	12/2022	Groundwood Pulping, Production, Energy Generation



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

The undersigned, EMAS environmental verifier, Astrid Günther (DE-V-0357), acting for TÜV NORD CERT Umweltgutachter GmbH, licensed for the scope NACE Code 17.12 (papermaking), declares to have verified whether the site UPM Plattling, Rhein Papier GmbH, in 94447 Plattling, Nicolausstr. 7, Germany, as indicated in the updated Environmental Statement 2021 of the mentioned site (registration number 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 Commission Regulation (EU) 2017/1505 and Commission Regulation (EU) 2018/2026, 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 the updated Environmental Statement 2021

 the data and information of the updated Environmental Statement 2021 of UPM Plattling, Rhein Papier GmbH, reflect a reliable, credible and correct image of all the activities of UPM Plattling, Rhein Papier GmbH, within the scope mentioned in the updated Environmental Statement 2021.

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

Plattling, 30. June 2022

Astrid Günther
Environmental verifier
DE-V-0357

TÜV NORD CERT Umweltgutachter GmbH

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