UPM GRI & SASB reporting index 2023



UPM follows the Global Reporting Initiative's (GRI) Sustainability Reporting Standards in its corporate responsibility reporting. The reporting has been prepared in accordance with the GRI Standards: Core option. For UPM's GRI content index, click <u>here</u>.

The table below includes relevant Sustainability Accounting Standards Board (SASB) indicators for UPM and aligns them with the applicable GRI standard disclosures. Information on locations shows where the indicators are addressed in the <u>Annual Report 2023</u> (AR) and on UPM's webpage (web) <u>https://www.upm.com/responsibility/</u> and <u>https://www.upm.com/investors/governance/</u>.

UPM group level accounting metrics

SASB TOPIC	SASB ACCOUNTING METRIC	CATEGORY	UNITOF MEASURE	SASB CODE	GRI DISCLOSURE NUMBER	DISCLOSURE	LOCATION	COMMENT
Greenhouse Gas Emissions	Gross global Scope 1 emissions	Quantitative	Metric tons (t) CO2-e	RR-PP- 110a.1	305-1	2,100,000 tons	AR pages 91, 101, web, web	
	Discussion of long-term and short- term strategy or plan to manage Scope 1 emissions, emissions reduction targets, and analysis of performance against those targets	Discussion and Analysis	n/a	RR-PP- 110a.2		 UPM Group level targets: 65% reduction of fossil CO2 emissions from own combustion and purchased electricity (scope 1 and 2) by 2030, from 2015 level -> In 2023, reduction of 45% compared to 2015 and 17% compared to 2022 No coal and peat usage in on-site energy generation by 2030 -> In 2023, reduction of 13% compared to 2022 1% annual energy efficiency improvement (continuous) -> Not achieved in 2023 	AR pages 31-32, 86- 91, <u>web</u> , <u>web</u>	
Air Quality	Air emissions of the following pollutants: (1) NO_x (excluding N_2O), (2) SO_2 , (3) volatile organic compounds (VOCs), (4) particulate matter (PM), and (5) hazardous air pollutants (HAPs)	Quantitative	Metric tons (t)	RR-PP- 120a.1	305-7	Nitrogen oxides 7,800 t Sulphur dioxide 770 t Particulates 860 t VOC 320 t	AR page 101	
	Number of incidents of non- compliance associated with air quality permits, standards, and regulations	Quantitative	Number	RR-BI- 120a.2	307-1	No major environmental incidents occurred at UPM production plants in 2023. However, a total of 28 temporary deviations from permit, contractual or other obligations occurred over the course of the year. 5 cases were related to air, 20 to water, two to soil and water and one to waste.	AR page 141	

SASB TOPIC	SASB ACCOUNTING METRIC	CATEGORY	UNITOF MEASURE	SASB CODE	GRI DISCLOSURE NUMBER	DISCLOSURE	LOCATION	COMMENT
Energy Management	 (1)Total energy consumed, (2) percentage grid electricity, (3) percentage from biomass, (4) percentage from other renewable energy 	Quantitative	Gigajoules (GJ), Percentage (%)	RR-PP- 130a.1	302-1	Renewable fuels 29,700 GWh Fossil fuels 9,200 GWh Purchased electricity and heat 15,800 GWh Sold electricity and heat 14,800 GWh	AR page 100, <u>web</u>	
	(1)Total water withdrawn, (2) total water consumed, percentage of each in regions with High or Extremely High Baseline Water Stress	Quantitative	Thousand cubic meters (m³), Percentage (%)	RR-PP- 140a.1	303-3	1) Surface water, million m3 369 Groundwater, million m3 13 Communal water, million m3 4 No water withdrawal from areas with water stress.	AR page 100, <u>web</u> , web	
					303-5	(2) 16 million m ³ No water consumption or discharge in areas with water stress.		The scope is pulp and paper mills: the impact of other UPM units is minor.
Water Management	Description of water management risks and discussion of strategies and practices to mitigate those risks	Discussion and Analysis	n/a	RR-PP- 140a.2	303-1, 303-2	For description and discussion, please see column LOCATION	AR pages 92-93, 141, web	
	Number of incidents of non- compliance associated with water quality permits, standards, and regulations	Quantitative	Number	RR-BI- 140a.3	307-1	No major environmental incidents occurred at UPM production plants in 2023. However, a total of 28 temporary deviations from permit, contractual or other obligations occurred over the course of the year. 5 cases were related to air, 20 to water, two to soil and water and one to waste.	AR page 141	
Supply chain Management	Percentage of wood fiber sourced from (1) third-party certified forestlands and percentage to each standard and (2) meeting other fiber sourcing standards and percentage to each standard	Quantitative	Percentage (%) by weight	RR-PP- 430a.1		87% of all wood used by UPM was sourced from certified forests in 2023. All wood, pulp and recovered paper is either FSC™ (N003385) and PEFC (PEFC/02-44-41) certified or complies with the FSC Controlled Wood standard or Due Diligence requirements for PEFC.	AR pages 32, 83	
	Amount of recycled and recovered fiber procured	Quantitative	Metric tons (t)	RR-PP- 430a.2	301-2	Recovered paper procured 0.8 million t Recycled fibre accounted 17% of all fibre raw materials used in UPM's paper production.	AR page 96	

SASB TOPIC	SASB ACCOUNTING METRIC	CATEGORY	UNITOF MEASURE	SASB CODE	GRI DISCLOSURE NUMBER	DISCLOSURE	LOCATION	COMMENT
	Area of forestland certified to a third-party forest management standard, percentage certified to each standard	Quantitative	Acres (ac), Percentage (%)	RR-FM- 160a.1		All UPM-owned forests are certified, or in the process of being certified if the site is new. At the end of 2023, UPM owned approximately 903,000 hectares (2,230,000 acres*) of forest land in Finland, Uruguay and the USA.	AR page 82-83	
	Area of forestland with protected conservation status	Quantitative	Acres (ac)	RR-FM- 160a.2	304-1	135,000 hectares (334,000 acres*)	AR page 82, <u>web</u>	
Ecosystem Services & Impacts	Area of forestland in endangered species habitat	Quantitative	Acres (ac)	RR-FM- 160a.3		Qualitative information available on UPM's webpage	web	Not disclosed
	Description of approach to optimizing opportunities from ecosystem services provided by forestlands	Discussion and Analysis	n/a	RR-FM- 160a.4		Forests provide a renewable source of raw materials for a broad range of products, from everyday necessities to ground-breaking innovations and alternatives to fossil- based materials. Forests are also one of the biggest absorbers of carbon on the planet, second only to oceans. They are critical to biodiversity and they protect water systems. For many, they provide a livelihood and are a source of wellbeing and recreation. Today, they're more important than ever.	AR pages 12-13, <u>web</u>	
	Area o f f orestland in indigenous land	Quantitative	Acres(ac)	RR-FM- 210a.1	411-1	We don't accept wood from regions that do not respect the rights of indigenous peoples.	AR page 78	
Rights of Indigenous Peoples	Description of engagement processes and due diligence practices with respect to human rights, indigenous rights, and the local community	Discussion and Analysis	n/a	RR-FM- 210a.2	412-1, 413-1	For discussion and analysis, please see column LOCATION	AR pages 72-73, 139-140, web	
Climate Change Adaptation	Description of strategy to manage opportunities for and risks to forest management and timber production presented by climate change	Discussion and Analysis	n/a	RR-FM- 450a.1	102-15	For discussion and analysis, please see column LOCATION	AR pages 12-15, 29-30, 34- 35	
Lifecycle Emissions Balance	Life cycle greenhouse gas (GHG) emissions, by biofuel type	Quantitative	Grams of CO₂-e per megajoule (MJ)	RR-BI- 410a.1		UPM BioVerno reduces GHG emissions by over 80% compared to fossil diesel.	AR pages 52-53	

*conversion rate: 1 hectare = 2.4711 acres

SASB TOPIC	SASB ACCOUNTING METRIC	CATEGORY	UNITOF MEASURE	SASB CODE	GRI DISCLOSURE NUMBER	DISCLOSURE	LOCATION	COMMENT
Sourcing& Environmental Impacts of Feedstock Production	Discussion of strategy to manage risks associated with environmental impacts of feedstock production	Discussion and Analysis	n/a	RR-BI- 430a.1		For discussion and analysis, please see column LOCATION	<u>web</u>	
	Percentage of biofuel production third-party certified to an environmental sustainability standard	Quantitative	Percentage (%) of gallons	RR-BI- 430a.2		100%	AR page 53, <u>web</u>	
	Amount of subsidies received through government programs	Quantitative	Reporting currency	RR-BI- 530a.1	201-4		AR pages 179	Not dislosed.
Management of the Legal & Regulatory Environment	Discussion of corporate positions related to government regulations and/or policy proposals that address environmental and social factors affecting the industry	Discussion and Analysis	n/a	RR-BI- 530a.2		For discussion and analysis, please see column LOCATION	AR page 60-61	
Operational Safety, Emergency Preparedness & Response	Process Safety Incidents Count (PSIC), Process Safety Total Incident Rate (PSTIR),and Process Safety Incident Severity Rate (PSISR)	Quantitative	Number, Rate	RR-BI- 540a.1	403-9	Total recordable injury frequency for UPM workforce including contractors (as total injuries per one million hours worked) was 5.2. In 2023, we didn't have any fatal accidents, but unfortunately had five serious accidents, three in Finland , one in Germany and one in China.	AR pages 70	

Activity metrics – Pulp & Paper, Forestry Management, Biofuels

SASB ACTIVITY METRIC	CATEGORY	UNITOF MEASURE	SASB CODE	GRI DISCLOSURE NUMBER	DISCLOSURE	LOCATION	COMMENT
Pulp production	Quantitative	Air-dried metric tons (t)	RR-PP-000.A		4.2 million t	AR page 100	
Paper production	Quantitative	Air-dried metric tons (t)	RR-PP-000.B		4.7 million t	AR page 100	
Total wood fiber sourced	Quantitative	Metric tons (t)	RR-PP-000.C	301-1	Wood: 26 million cubic metres Market pulp: 1.3 million t Recovered paper: 0.8 million t	AR page 100	
Area of forestland owned, leased, and/or managed by the entity	Quantitative	Acres(ac)	RR-FM-000.A		Owned: 903,000 hectares (2,200,000 acres*) Leased: 170,000 hectares (420,000 acres*) Managed: 1.5 million hectares (3.7 million acres*)	AR page 82	
Aggregate standing timber inventory	Quantitative	Cubic meters (m ³)	RR-FM-000.B		-	-	Quantity not disclosed
Timber harvest volume	Quantitative	Cubicmeters (m ³)	RR-FM-000.C		7.0 million m ³ from UPM forests and plantations	AR page 83	
Biofuel production capacity	Quantitative	Millions of gallons (Mgal)	RR-BI-000.A		160 million I/a (42 Mgal**) of advanced biofuels	web	
Production of: (1) renewable fuel, (2) advanced biofuel, (3) biomass-based diesel, and (4) cellulosic biofuel	Quantitative	Millions of gallons (Mgal)	RR-BI-000.B		100% advanced biofuels	web	Quantity not disclosed
Amount of feedstock consumed in production	Quantitative	Metric tons (t)	RR-BI-000.C		Raw material is crude tall oil, a residue from pulp production.	AR page 52	Quantity not disclosed

*conversion rate: 1 hectare = 2.4711 acres

**conversion rate: 1 liter = 0.26417 US gallon