

UPM Biofore Beyond Fossils

Investor presentation October 2023

This is UPM

SALES 2022 EUR 11.7 BILLION



UPM

Our businesses





UPM Pulp A versatile range of chemical pulp for many growing end uses



UPM Timber Certified sawn timber for joinery, packaging, furniture, planing and construction



UPM Forest Sourcing wood raw material for sustainable and recyclable products



UPM Energy Zero-emission electricity generation of hydro, nuclear and thermal power



UPM Raflatac Self-adhesive paper and film products incl. label materials, graphics solutions and removable self-adhesive products.



UPM Specialty Papers Labelling materials, release base papers, flexible packaging papers, office and graphic papers



UPM Communication Papers Magazine paper, newsprint and fine papers for a wide range of end uses



UPM Plywood Plywood and veneer products for construction, vehicle flooring and LNG shipbuilding



UPM Biofuels Wood-based renewable diesel and naphtha



Biochemicals Glycols, lignin products, renewable functional fillers



UPM Biomedicals Wood-based biomedical products for medical and life science applications



UPM Biocomposites Composite decking materials and woodbased biocomposites

We create a future beyond fossils

Biofore strategy drives stakeholder value creation and our transformation as the frontrunner of bioeconomy

Growth

- We respond to megatrends and meet customers' changing needs
- Creating new markets and enabling sustainable choices

Performance

- Continuous improvement
- Agile operating model
- Corporate synergies



Innovation

- Creating new business and competitive advantage
- Replacing fossils
 with biomaterials

Responsibility

- Renewable & sustainable solutions
- Responsible operations and value chain

Portfolio choices

- Strategic access to sustainable renewable raw materials
- Investing in businesses with strong long-term fundamentals for growth and high barriers to entry
- Effective capital allocation with attractive returns

UPMBIOFORE-BEYOND FOSSILS

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Long-term value creation driven by our spearheads for growth



SPECIALITY PACKAGING MATERIALS

Label Specialty materials papers FIBRES

Forests Pulp

BIOREFINING

Biofuels Biochemicals Biomedicals Biocomposites

Communication papers

Plywood

Energy

Our climate commitment





WE ACT THROUGH FORESTS

Committed to climate-positive forestry and enhancing biodiversity

WE ACT THROUGH EMISSION REDUCTIONS

-65% from own CO₂ emissions

-30% from CO₂ emissions of supply chain

WE ACT THROUGH PRODUCTS

Innovative products

Scientifically verifying the climate impact of all our products







Towards net-zero emissions (UPM 2022)



Bioeconomy offers a sustainable alternative to fossil-based economy





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Leader in responsibility



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2023

Sustainability Rating











Transformation in growth phase – business mix drives earnings and shareholder value



not a forecast

Growth investments have increased capital employed, significant earnings potential as they start to contribute UPM



Group financial targets











Business area long-term return targets



5-year capital allocation for 2018-2022





Illustrative capital allocation*) for the next 5 years (2023-2027)



*) This is not a forecast

Dividend policy and capital allocation



- UPM aims to pay attractive dividends, targeting at least half of the comparable earnings per share over time.
- UPM plans to allocate capital to
 - Invest to grow the company and its earnings. UPM targets growth in comparable EBIT and comparable return on equity exceeding 10%.
 - Pay attractive dividend. The targeted earnings growth drives dividend growth over time.
 - Maintain a strong balance sheet. Net debt to EBITDA ratio to be less than 2.
 - Share buybacks. They are a complementing tool that may be used relative to investment opportunities and company valuation.

Dividend: 15% increase to EUR 1.50 per share





Dividend policy

 UPM aims to pay attractive dividends, targeting at least half of the comparable earnings per share over time

Dividend for 2022

- EUR 1.50 (1.30) per share, totalling EUR 800m
- 49% of 2022 comparable EPS

Transformative growth projects in the most intensive phase in 2021-2022



Capex estimate for 2023

- Total EUR 1,100m
- Includes EUR 900m on the transformative growth projects, pulp in Uruguay and biochemicals in Germany
- Operational investment
 needs consistently low

Strong financial position





- Net debt EUR 2,363m at the end of Q3 2023
- Net debt / EBITDA 1.27
- Cash funds and committed credit facilities EUR 6.5bn at the end of Q3 2023
- No financial covenants
- UPM pays the dividend of EUR 1.50 per share for 2022 in two instalments. The first was paid on 21 April 2023 and the second instalment of EUR 0.75 per share will be paid on 2 November 2023

Q3 2023: UPM delivers improved results from previous quarter and continues to build long-term growth

- Sales decreased by 24% to EUR 2,584m (3,420m in Q3 2022)
 Comparable EBIT decreased by 72% to EUR 220m,
- 8.5% of sales (779m, 22.8%)
- Pulp and electricity sales prices significantly lower than last year, impacting UPM Fibres and UPM Energy
- Successful margin management in other business
 areas
- Demand for many of UPM's products started to gradually recover
- UPM Paso de los Toros pulp mill and the OL3 nuclear power plant unit contributed significantly to deliveries
- Operating cash flow was strong at EUR 641m (-201m)





Comparable EBIT



Focus on margin management as destocking is phasing out



- Market shipments in most products well below end-use demand and long-term trends due to destocking
- Consumers impacted by inflation, interest rates and uncertainty, affecting underlying end use-demand
- The impact of destocking is expected to gradually phase out during H2 2023
- The long-term growth prospects remain intact and attractive
- Variable costs are expected to decrease in H2 2023 compared to H1 2023

Example: market shipments of self-adhesive label materials in Europe impacted by destocking



Comparable EBIT in Q3 2023







Comparable EBIT by business area





*) Year 2021 restated, UPM Biofuels moved to Other Operations as of 1 January 2022

Outlook for 2023

- UPM
- Full-year 2023 comparable EBIT is expected to decrease from 2022. UPM's comparable EBIT in H2 2023 is expected to be on similar level or increase compared to H1 2023.
- UPM's delivery volumes are expected to increase in H2 2023 from H1 2023. Deliveries were unusually low during H1 2023, held back by significant destocking in the various product value chains. Destocking is expected to gradually phase out during H2 2023, enabling UPM's deliveries to recover towards the underlying end-use demand. The production ramp-up of the UPM Paso de los Toros pulp mill and the OL3 nuclear power plant unit will add to UPM's deliveries in H2 2023.
- Chemical pulp and electricity market prices were historically high during H2 2022 and declined rapidly to estimated bottom-of-the-cycle levels during H1 2023. H2 2023 started with low pulp and electricity prices, impacting these commodity price-driven businesses. In the other businesses UPM continues to manage margins.
- Variable costs are expected to decrease in H2 2023 compared to H1 2023. In addition, UPM is implementing measures to reduce fixed and variable costs.



FOREST ACTION

The UPM Forest Action programme takes a holistic view, covering the five fundamentals of responsible forestry:



Developing our forest assets



UPM fo	rests and plantations	2008	2022	Area distri
Forest a	and plantation land (own and leased) (1,000 ha)	1,012	1,070	8%
Forest g	growth (million m ³)	4.3	6.7	90%
Wood s	ourced from UPM forests and plantations (million m ³)	2.2	4.5	
Value o	f forests and plantations, including land (EURm)	1,270	3,421	

Area distribution

Climate-positive forestry and maintenance of carbon sinks Investing in strategic forest assets in Uruguay Productivity with active management and nurseries Enhanching biodiversity

Active forest strategy – UPM's forest assets are increasingly productive and valuable



Uruguay plantations "fast turnover, low inventory"

- Value EUR 1.6bn
- Continuous productivity improvement (pulp tonnes/ha)
- Investing in strategic forest assets

Finland and other northern forests "slow turnover, high inventory"

- Value EUR 1.8bn (+43% since 2008, EUR/ha +140% since 2008)
- Decreased area (-42% since 2008), focusing on forests close to mills
- Improved growth (m³/ha)
- Trend price (EUR/m³)



New business in woodbased biochemicals

Responding to strongly growing demand for sustainable solutions



Industrial scale biorefinery in Leuna, Germany



Alternatives to fossil materials in various consumer-driven end-uses



EUR 1 180 million investment Total annual capacity of 220,000 tonnes



Scheduled to start up by the end of 2024



UPM Leuna biochemicals refinery project progressing well according to the updated schedule

- Operating permit obtained in May, the commissioning will be implemented in phases starting in Q4 2023
- Start-up expected by the end of 2024
- Investment estimate is EUR 1,180 million
- In Q3, UPM Biochemicals acquired the Germanbased SunCoal Industries
- We have full confidence in profitable biochemicals business, and the technologies used in UPM Leuna
- Interest for our renewable products replacing fossil
 materials has proven to be high
- First large-scale sales contracts with Dongsung and Brenntag

UPM Biochemicals Renewable product range

• **Bio-monoethylene glycol (bMEG)** for textiles, PET bottles, packaging, deicing fluids

• Renewable functional fillers for rubber applications as a sustainable, light-weight and high-purity alternative to carbon black and silica

- **Bio-monopropylene glycol (bMPG)** for composites, pharma, cosmetics, detergents
- Industrial sugars for various applications in chemicals industry





UPM Biochemicals Large growth markets – unique sustainability value





- The global glycols market is more than 30 million tonnes, with expected annual growth of approx. 4%
- The global market of carbon black and silica is more than 15 million tonnes, with expected annual growth of approx. 3%
- Current market supply based on non-renewable raw materials
- Customers increasingly committed to sustainable solutions
- UPM's renewable raw material and new technologies provide significant reduction in carbon footprint
- UPM biochemicals fit directly into customers' processes and the existing recycling infrastructure

UPM Paso de los Toros will grow UPM Pulp by over 50%

Highly competitive cash cost of USD 280 per delivered tonne of pulp



Pulp mill and deep seaport terminal in Montevideo Jobs and other opportunities for the residents of the region

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Pulp is used in tissue, specialty and packaging papers, for example



USD 3.47 billion investment Total annual capacity of 2.1 million tonnes of eucalyptus pulp





Transformative step in UPM's pulp business and in UPM's future earnings

- Significant step for UPM's future earnings
 - One of the most competitive mills in the world
 - Expected cash cost level of USD 280 per delivered tonne of pulp^{*})
 - Attractive returns in various market scenarios
 - Carefully prepared to ensure long-term competitiveness and to minimise risks both in the project phase and during continuous operations
- Step change in UPM's pulp business



*) including variable and fixed costs of plantation operations, wood sourcing, mill operations and logistics delivered to the main markets

UPM Fibres Competitive wood supply



Eucalyptus availability secured through UPM's own and leased plantations and wood sourcing agreements with private partners

UPM's own, leased and managed plantations in Uruguay cover 504,773 hectares, supplying both UPM Fray Bentos and the new Paso de los Toros mill

30 years experience of sustainably managed and productive plantations



UPM Fibres Efficient logistics set-up



USD 280 million investment to a **deep sea pulp terminal** in Montevideo port

- Direct rail access from the mill with 4-6 trains/day + 1 chemical train/day to the mill
- Operating 24/7
- >50,000 m warehouse for ~2 million pulp tonnes
- Deep sea port with 100 pulp ships a year
- → Direct, efficient access to global markets

Railway modernisation

• Public-private-partnership agreement by the government and the construction company

Road improvements



UPM Fibres

Market pulp consumed in growing end-uses – alternative white fibre demand overcoming graphical paper decline





Sources: AFRY, UPM estimate
UPM Fibres Moderate numbers of decided projects in the short-term and expansion mainly in BHKP



Entry of bleached market pulp capacity



UPM Fibres Chemical pulp market prices







UPM Energy UPM Energy

UPM Energy's power generation	MW	EURm
Hydropower holdings	552	1,014
Nuclear power OL1 and OL2	588	1,666
Nuclear power OL3 (PTO 03/2023)	494	312
Thermal power	133	1
UPM Energy's shareholdings in total, valued at fair value	1,765	2,993
UPM own hydropower assets	170	
UPM Energy's in total (incl. OL3)	1,936	
UPM Energy capital employed		3,291

UPM Energy sources electricity from part owned energy companies at full cost (cost-price principle, mankala principle)





UPM Energy UPM Energy's assets are competitive, CO₂-free and increasingly valuable



Hydropower

- Flexible generation, crucial to balance the volatile system
- Renewable, CO₂-free
- Value EUR 1.3bn

Nuclear power

- Reliable baseload generation
- CO₂-free
- Unique and safe solution for final disposal of spent fuel
- Value EUR 2.5bn



OL3 in regular commercial electricity production

We create a future beyond fossils: OL3 grows UPM Energy's carbon free electricity generation by nearly 50%

Reliable CO₂-free baseload energy to support the electrification of the society

Finland's electricity self-sufficiency significantly improved, carbon neutral generation to about 90%

UPM's agile and competitive energy business platform opens growth opportunities in the green transition



Cost efficient generation enables robust profitability in changing market environment





UPM Energy profitability	2018	2019	2020	2021	2022	1-9/23
Comparable EBIT, EURm	123	185	171	270	381	139
% of sales	31.5	44.4	45.0	51.3	52.0	31.9

UPM Raflatac Self adhesive labels in various end-uses





Food



Wine, spirits & beverage



Pharmaceuticals



Personal care



Home care



Durables



Transport & logistics



Industrial Chemical



Retail



A4 & cut-size



protection



Tyre

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UPM Raflatac The self-adhesive labelstock market

- >EUR 10bn global market
- ~3-4% p.a. growth
- Private consumption driven
- · Largest of the labelling technologies
- <25% of total self adhesive materials markets





All self adhesive materials





UPM Raflatac The labelstock markets have solid long term demand growth trends – short term can be more volatile



The long term demand growth outlook remains a solid 3-4% p.a.

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However in the short term the demand changes can be more dynamic

The demand of UPM Raflatac's end use portfolio is relatively resilient



UPM Specialty Papers Growth expected to continue in main markets



LABEL & RELEASE

PACKAGING PAPERS

APAC FINE PAPERS

papers



UPM Specialty Paper

Leading position in growing global label and release paper markets





Selective approach in consumer packaging area. Well positioned for future growth.



APAC APAC office graphic papers: 1-2% stable/ declining

One of the leading players in office papers, focused niche player in graphic papers 0000



Source: AWA, Pira, UPM

UPM Specialty Papers UPM Specialty Papers GROWTH STRATEGY

We co-create a future beyond fossils with renewable, recyclable and remarkable papers





UPM Communication Papers Graphic paper prices







Sources: PPI, RISI



UPM Communication Papers Paper price vs. cash cost of marginal cost producer



EUR/t



2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023

Sources: PPI, RISI, AFRY

UPM Plywood UPM Plywood focuses on three end use segments



Construction



UPM's position and direction

- Leading position in high and medium range standard products in Europe through well established distribution network providing easy access to WISA[®] plywood
- Uncompromised sustainability, certified products and operations
- New growth sought by strengthening position in selected emerging markets

Vehicle flooring



UPM's position and direction

- Leading position in Europe
- Competitive edge built on smoothly running operations and needs-based product design creating value to both vehicle manufacturers and operators
- Growth sought by expanding to new markets and related end use segments

LNG shipbuilding



UPM's position and direction

- Leading supplier in LNG plywood
- Competitive edge based on right quality and accurate on-time deliveries
- Long term commitment and benchmark service level
- Focus to secure leading position in LNG carriers and to extend offering into related applications using the same technologies (e.g. land storage tanks)

UPM Plywood UPM's key markets are in the high and mid segments primarily in EMEA region



Strategic choices

- 1. Demanding industrial applications
- 2. High and medium range standard products
- 3. Selected customers
- 4. EMEA region and LNG business globally



Moving forward with biofuels growth plans

Basic engineering phase of a next generation biorefinery



Potential industrial scale biofuels biorefinery

Products would significantly reduce carbon footprint in the road transport and aviation



Capacity would be up to 500,000t of renewable fuels incl. sustainable jet fuel

Potential investment in Rotterdam, the Netherlands.

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UPM Biofuels' competitive edge to be built on resilient ecosystem and agility to select markets



NEW SUSTAINABLE BIOMASS

Sustainable and uniquely upstream integrated feedstock pool

- Additionality
- · Climate positive land use



Carbon stored to soil in each cycle

CLIMATE-POSITIVE FUELS

Efficient carbon neutral production

DECARBONIZED TRANSPORT AND PETROCHEMICALS

Flexibility to create maximum value from several end uses and market geographies



UPM and hydrogen – growth opportunities in large-scale green hydrogen solutions

- Decarbonisation will require synthetic fuels and new low-emission electricity generation
- demand for e-fuels will be driven by regulation and EU's target to decrease dependency on Russian fossil fuels

UPM has competitive advantage

- experience and in-depth knowledge on energy markets
- decarbonisation and energy optimization tools and skills
- experience on biorefinery operations
- available biogenic CO₂ needed in the production of some e-fuels



