

This is UPM

SALES 2022 EUR 11.7 BILLION



Wood-based raw materials

Low-carbon energy

BUSINESSES:

UPM FIBRES

UPM ENERGY

UPM RAFLATAC

UPM SPECIALTY PAPERS

UPM COMMUNICATION PAPERS

UPM PLYWOOD

UPM BIOREFINING

55 production plants



17,200 employees in 44 countries

RENEWABLE AND RECYCLABLE PRODUCTS FOR:





COMMUNICATION TISSUE AND



TRANSPORTATION

CONSTRUCTION



MANUFACTURING

HYGIENE PRODUCTS



BIOPLASTICS



BIOMEDICALS

10,500 customers



170 million end-users globally

UPMBIOFORE-BEYOND FOSSILS

Our businesses





UPM PulpA versatile range of chemical pulp for many growing end



UPM TimberCertified sawn
timber for joinery,
packaging,
furniture, planing
and construction



UPM ForestSourcing wood raw material for sustainable and recyclable products



UPM EnergyZero-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 PapersLabelling materials, release base papers, flexible packaging papers, office and graphic papers



UPM Communication
Papers
Magazina paper power

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



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



UPM BiofuelsWood-based
renewable diesel
and naphtha



UPM Biochemicals Glycols, lignin products, renewable functional fillers



UPM BiomedicalsWood-based
biomedical products
for medical and life
science applications



UPM BiocompositesComposite decking
materials and woodbased biocomposites



Biofore strategy drives our transformation as a frontrunner in biomaterials.

We seek sustainable growth by enabling our customers and consumers to make more sustainable choices.

High performance, innovations and world-leading responsibility are our cornerstones. We create a future beyond fossils.



A FUTURE BEYOND FOSSILS

GROWTH

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

PERFORMANCE

- Continuous improvement
- Agile operating model

INNOVATION

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

RESPONSIBILITY

- Renewable & sustainable solutions
- Responsible operations and value chain

PORTFOLIO

- · Effective capital allocation
- Investing in businesses with strong long-term fundamentals for growth and high barriers to entry

VALUES

Trust and be trusted

Achieve together

Renew with courage

Long-term value creation driven by our spearheads for growth



SPECIALITY PACKAGING MATERIALS

Label Specialty materials papers

FIBRES

Forests Pu

Pulp

BIOREFINING

Biofuels Biochemicals Biomedicals Biocomposites

Communication papers

Plywood

Energy

Our climate commitment







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



BUSINESS 1.5°C OUR ONLY FUTURE







Towards net-zero emissions (UPM 2022) WE ACT THROUGH FORESTS WE ACT THROUGH EMISSION WE ACT THROUGH PRODUCTS **REDUCTIONS** -2,0 MtCO₂ Fossil +4,5 energy MtCO₂ substitution MtCO₂ **Temporary** MtCO₂eq Own carbon storage Carbon sink emissions Wood-based Trees and soil Scope 1 ja 2 products +5.0 -5,8 Long-term MtCO₂ MtCO₂ carbon storage Value chain Fossil-based Trees and soil emissions products

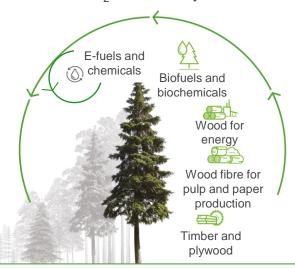
Scope 3

substitution

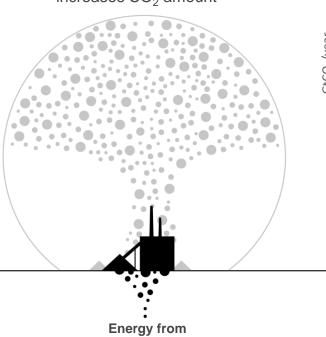
Bioeconomy offers a sustainable alternative to fossil-based economy



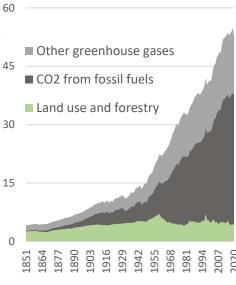
Biomass use is not increasing CO₂ to carbon cycle



Use of fossil resources increases CO₂ amount



Use of fossils has increased global CO₂ -emissions



Source: IEA, Our World in Data

Leader in responsibility

Member of
Dow Jones
Sustainability Indices

Powered by the S&P Global CSA







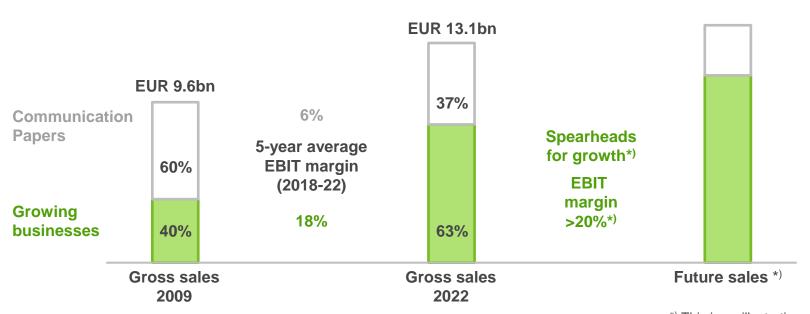






Transformation in growth phase – business mix drives earnings and shareholder value





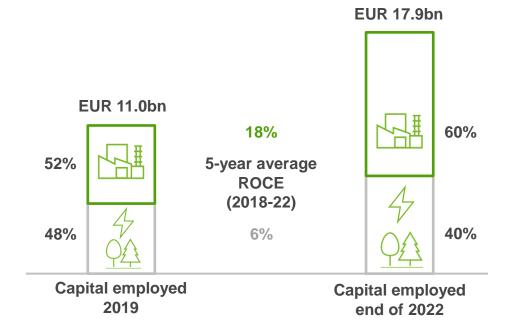
^{*)} This is an illustration, not a forecast

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





Forest and energy assets: Sustainable value creation

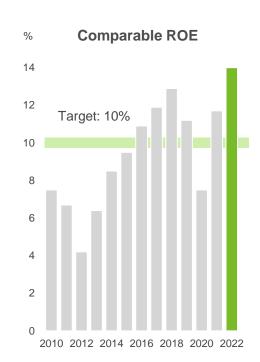


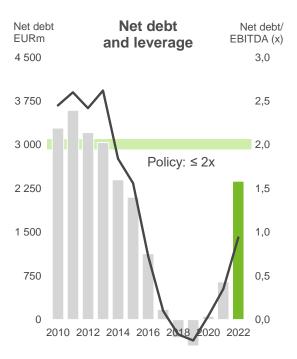
UPMBIOFORE-BEYOND FOSSIIS

New record in annual earnings



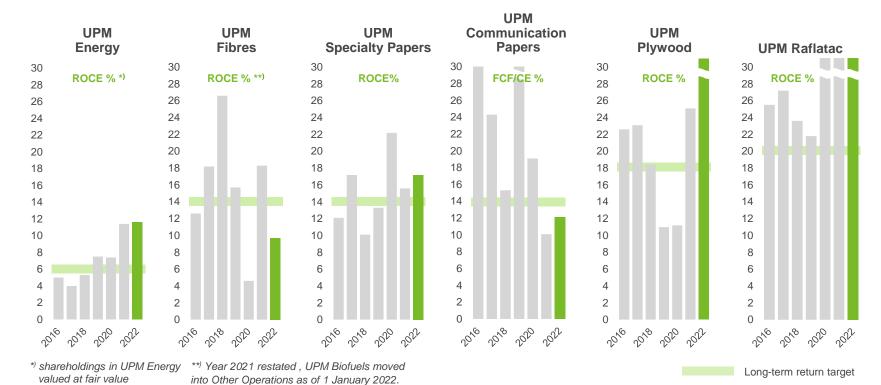






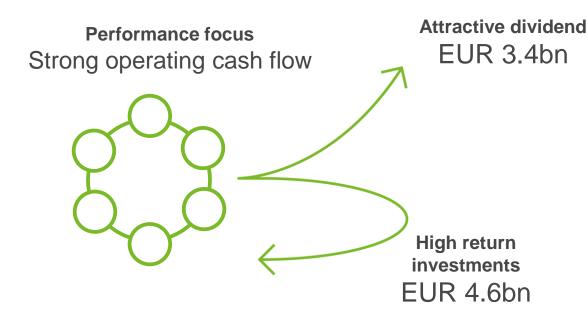
Business area long-term return targets





5-year capital allocation for 2018-2022





Strong
balance sheet
Net debt increase EUR 2.2bn

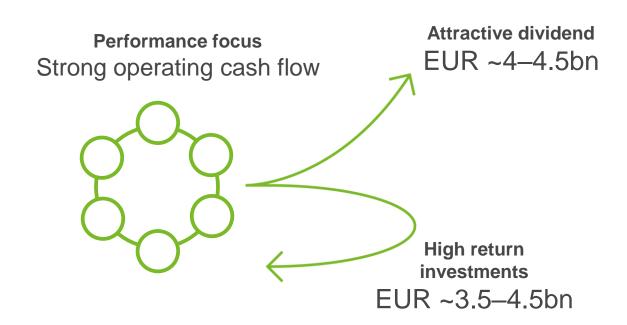


Net debt / EBITDA

0.94x
at the end of 2022

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





Strong balance sheet

Net debt/ EBITDA < 2X

Maintain headroom

*) 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

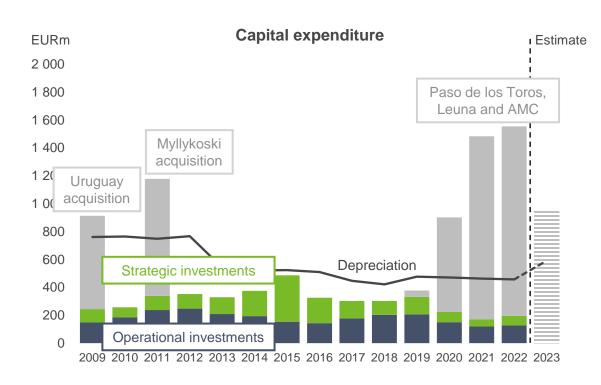
 UPM aims to pay attractive dividends, targeting at least half of the comparable earnings per share over time

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



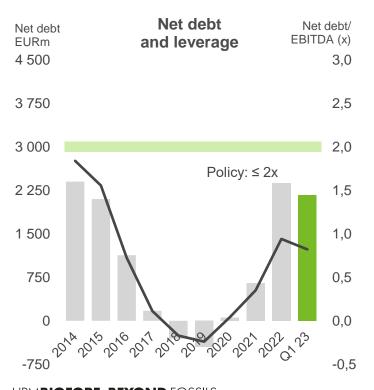


Capex estimate for 2023

- Total EUR 950m
- Includes EUR 750m on the transformative growth projects, pulp in Uruguay and biochemicals in Germany
- Operational investment needs consistently low

Strong financial position



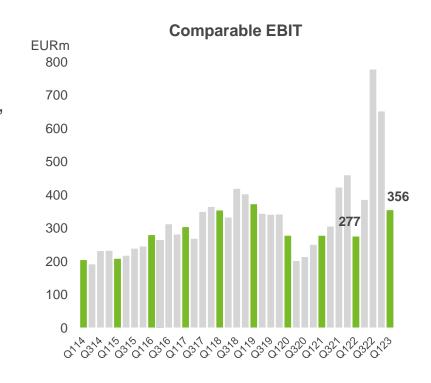


- Net debt EUR 2,167m at the end of Q1 2023
- Net debt / EBITDA 0.82
- Cash funds and committed credit facilities EUR 6.7bn at the end of Q1 2023
- No financial covenants

Q1 2023: solid Q1 result underpinned by strong margins, two transformative projects completed



- Sales increased by 11% to EUR 2,787m (2,507m in Q1 2022)
- Comparable EBIT grew by 29% to EUR 356m, 12.8% of sales (277m, 11.0%)
- Operating cash flow was EUR 714m (12m), supported by cash inflow from energy hedges
- Unit margins on high level delivery volumes impacted by destocking in various product value chains
- UPM Paso de los Toros started production, OL3 nuclear power plant unit started regular electricity production

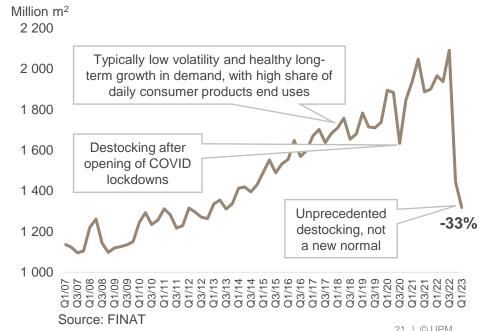


Focus on margin management during short-term lack of volumes



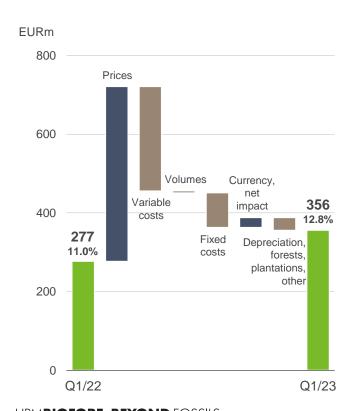
- Q1 market shipments in most products substantially below long-term trends due to destocking in the value chains
- UPM weighted average deliveries / capacity was about 70% in Q1 2023
- The impact of destocking is expected to phase out in the coming months
- The long-term growth prospects remain unchanged and attractive
- We continue to focus on margins
- Many variable costs have passed their peak but the benefit is yet to materialise in our results

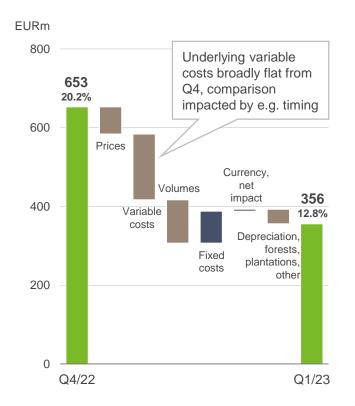
Example: market shipments of self-adhesive label materials in Europe impacted by destocking



Comparable EBIT in Q1 2023





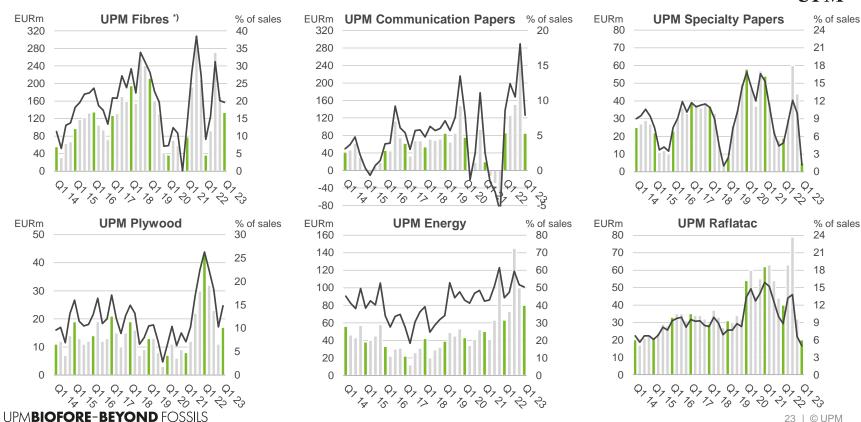


UPMBIOFORE-BEYOND FOSSILS

Comparable EBIT by business area



23 | © UPM





UPM lowers its outlook for 2023. Comparable EBIT in H1 2023 is now expected to decrease from H1 2022. Full-year 2023 comparable EBIT is expected to decrease from 2022.

Earlier, UPM expected comparable EBIT to increase in H1 2023 from H1 2022, and 2023 to be another year of strong financial performance.

Destocking in the various product value chains has continued to hold back delivery volumes in most UPM's businesses, resulting in slower recovery of volumes than earlier expected. In addition, chemical pulp prices have fallen faster than expected, towards estimated bottom-of-the-cycle price levels. Finally, as indicated earlier, UPM has high maintenance activity during Q2 2023.

In 2023, UPM's delivery volumes are expected to benefit from the ramp-up of the UPM Paso de los Toros pulp mill and the OL3 nuclear power plant unit, as well as the phasing out of the destocking in the product value chains as the year progresses.

UPM continues to focus on margin management during the short-term lack of volumes. Many variable cost items have started to decrease, as expected, although the cost benefit of lower pulp prices to UPM's two paper businesses comes with the normal delay.

For reference, UPM's previous outlook for 2023:

"UPM reached record earnings in 2022, and 2023 is expected to be another year of strong financial performance. UPM's comparable EBIT is expected to increase in H1 2023 from H1 2022.

In 2023, UPM's delivery volumes are expected to benefit from the ramp up of the UPM Paso de los Toros pulp mill and the OL3 nuclear power plant unit. In H1 2023, however, demand for many UPM products is expected to be held back by destocking in various product value chains. The opening of the Chinese economy from the COVID lockdowns and easing inflation in other key economies represent potential for increasing demand as the year progresses.

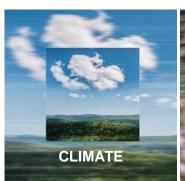
Year 2023 is starting with high cost level for many inputs, while the lower demand is exerting pressure on product prices. However, several input costs have also progressed past their peak. UPM will continue to manage margins with product pricing, by optimising its product and market mix and by taking measures to improve variable and fixed cost efficiency.

There are significant uncertainties, both positive and negative, in the outlook for 2023, related to the European, Chinese and global economy, Russia's war in Ukraine, the remaining effects of the pandemic, energy prices and related regulation in Europe, and the ramp-up of the OL3 power plant unit."



FOREST

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













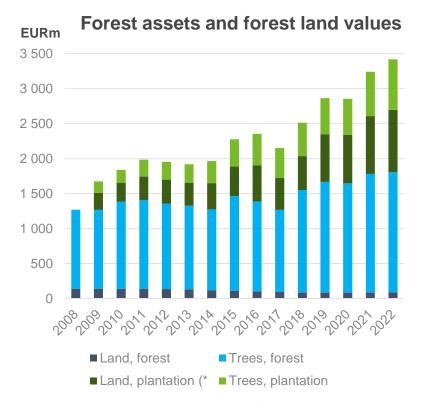


UPM forests and plantations	2008	2022	Area distribution		
Forest and plantation land (own and leased) (1,000 ha)	1,012	1,070	8%	-7%- L	US
Forest growth (million m³)	4.3	6.7	90%	47% F	Finland
Wood sourced from UPM forests and plantations (million m³)	2.2	4.5			
Value of forests and plantations, including land (EURm)	1,270	3,421		46% U	Uruguay
			2008	2022	

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 750 million investment Total annual capacity of 220,000 tonnes



Scheduled to start up by the end of 2023



UPM Leuna biochemicals refinery taking shape















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



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



Started up in April



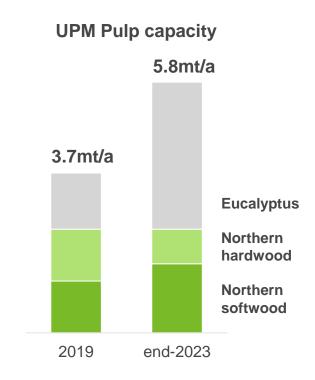


UPMBIOFORE-BEYOND FOSSILS

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



UPMBIOFORE-BEYOND FOSSILS

UPM Fibres

Efficient logistics set-up



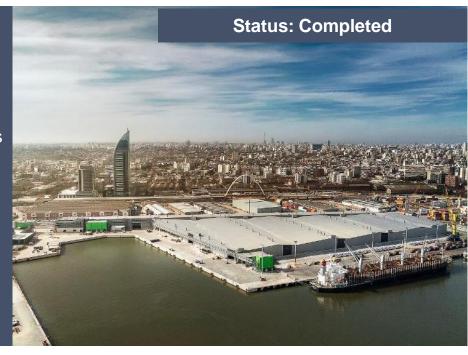
USD 280 million investment to a deep sea pulp terminal in Montevideo port

- 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

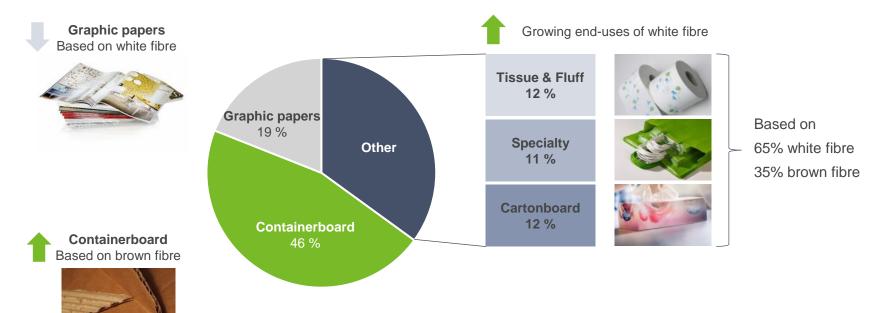
Public-private-partnership agreement by the government and the construction company

Road improvements



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





Total fibre consumption (2020): 421 million tonnes

UPM Fibres

Moderate numbers of decided projects in the short-term and expansion mainly in BHKP



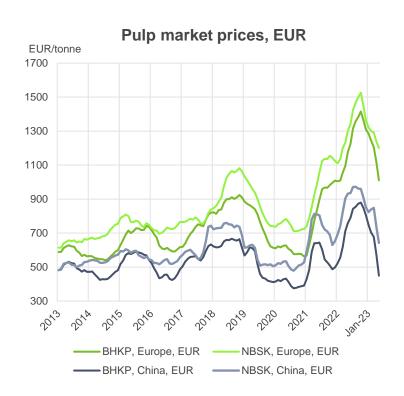
Entry of bleached market pulp capacity

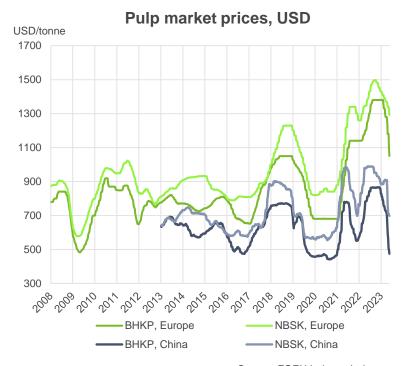


UPM Fibres

Chemical pulp market prices







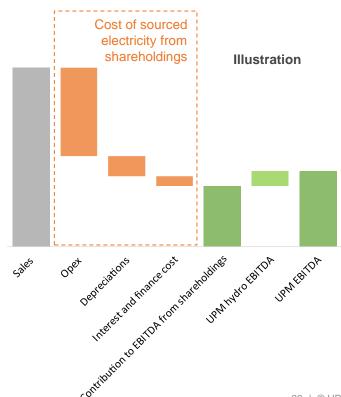
Source: FOEX Indexes Ltd

UPM Energy UPM Energy



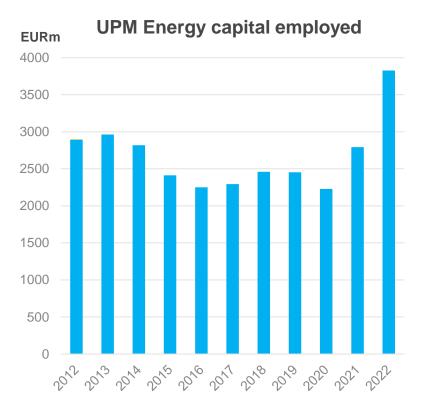
UPM Energy's power generation	MW	EURm
Hydropower holdings	552	1,014
Nuclear power OL1 and OL2	588	1,666
Nuclear power OL3 (PTO 03/2023)	494	312
Thermal power	133	1
UPM Energy's shareholdings in total, valued at fair value	1,765	2,993
UPM own hydropower assets	170	
UPM Energy's in total (incl. OL3)	1,936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

UPM Energy

OL3 started regular electricity production

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

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

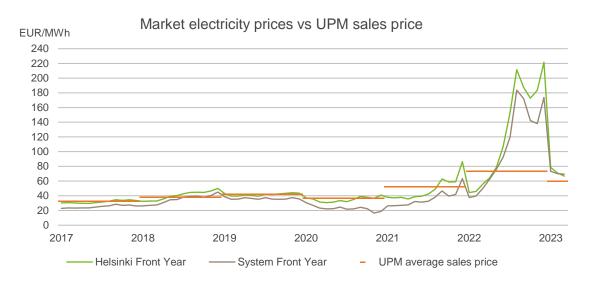
Finland's electricity self-sufficiency significantly improved, carbon neutral generation to about 90%

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	Q123
Comparable EBIT, EURm	123	185	171	270	381	80
% of sales	31.5	44.4	45.0	51.3	52.0	50.5

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



Security & brand protection



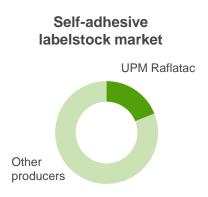
Tyre

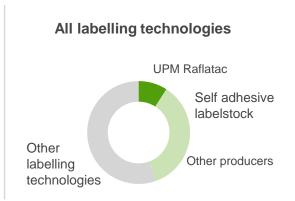
UPM Raflatac

The self-adhesive labelstock market



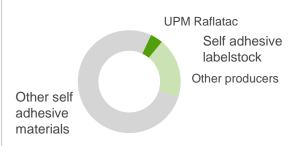
- >EUR 10bn global market
- ~3-4% p.a. growth
- Private consumption driven
- Largest of the labelling technologies
- <25% of total self adhesive materials markets







All self adhesive materials



UPM Raflatac

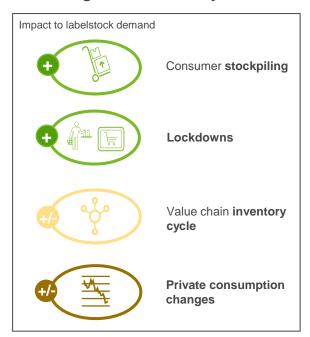
The labelstock markets have solid long term demand growth trends – short term can be more volatile



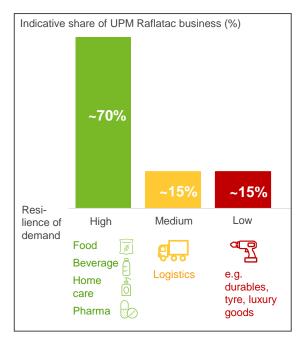
The long term demand growth outlook remains a solid 3-4% p.a.



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

Market development forecast, CAGR 2021-2026

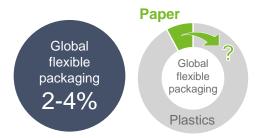
Global release liner ~4%

Global label face papers 2-3%

UPM Specialty Paper

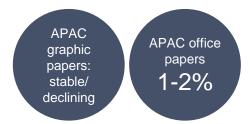
Leading position in growing global label and release paper markets _

PACKAGING PAPERS



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

APAC FINE PAPERS



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

Source: AWA, Pira, UPM

UPM Specialty Papers

UPM Specialty Papers GROWTH STRATEGY



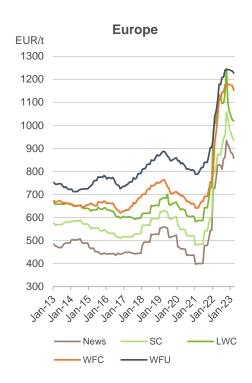
We co-create a future beyond fossils with renewable, recyclable and remarkable papers

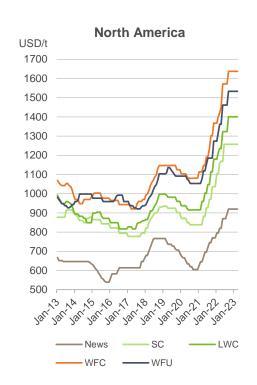


UPM Communication Papers

Graphic paper prices







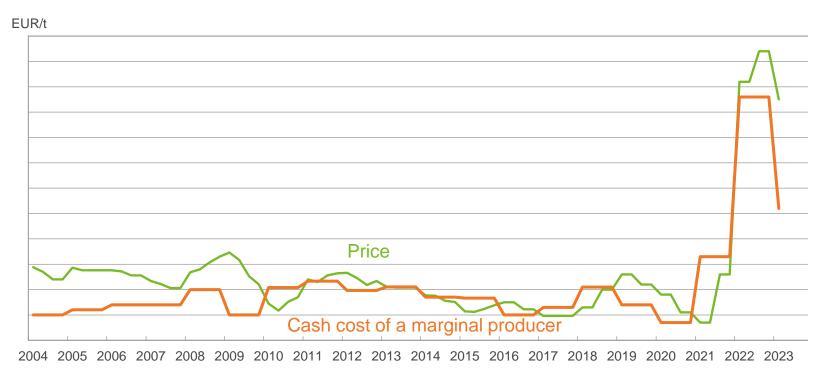


Sources: PPI, RISI

UPM Communication Papers

UPM

Paper price vs. cash cost of marginal cost producer



Sources: PPI, RISI, Pöyry

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

- Demanding industrial applications
- 2. High and medium range standard products
- 3. Selected customers
- 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



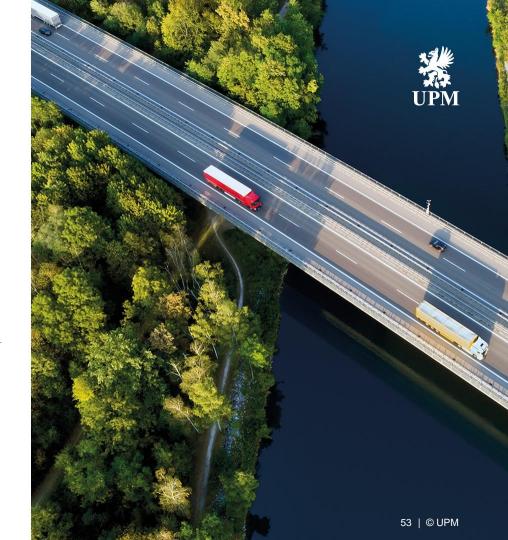
Products would significantly reduce carbon footprint in the road transport and aviation



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

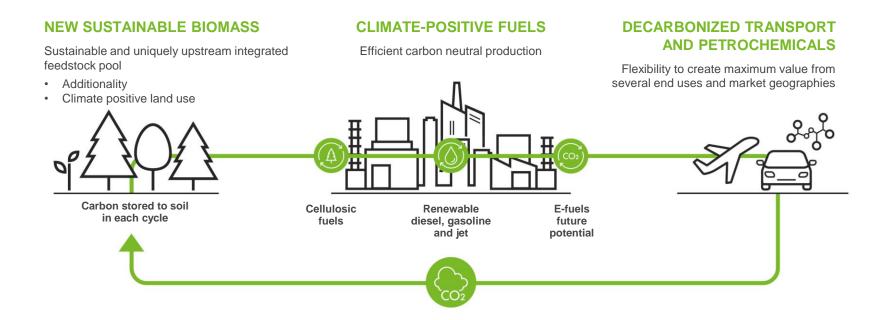


Potential investment in Rotterdam, the Netherlands.



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





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

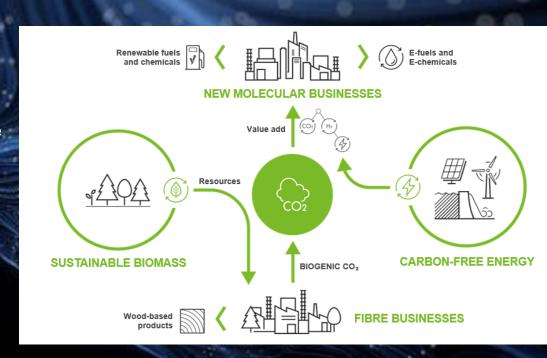


Decarbonisation will require synthetic fuels and new low-emission electricity generation

 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



UPMBIOFORE BEYOND FOSSILS