













UPM BIOREFINING

Pulp Plantations Biofuels Sawmills Wood Sourcing and Forestry

UPM ENERGY

Hydro-, nuclearand thermal power (incl. shares in energy companies) Electricity generation and trading Optimisation services

UPM RAFLATAC

Label materials for branding and promotion, informational labels, and labels with functionality

UPM SPECIALTY PAPERS

Labelling materials, release liners, flexible packaging papers, office and graphic papers

UPM COMMUNICA-TION PAPERS

Extensive product range of graphic papers for advertising and publishing as well as home and office uses

UPM PLYWOOD

WISA® Plywood and veneer products for construction and industrial applications

UPM BIOCHEMICALS

Wood-based biochemicals for variety of industrial uses

UPM BIOMEDICALS

Wood-based products for biomedical applications

UPM BIOCOMPOSITES

UPM ProFi decking products and UPM Formi granules

Global businesses – local presence



UPM's sales by market

EUR 10,238 million



54 production plants in 12 countries

18,700 employees in 46 countries

12,500 customers in 120 countries

100,700 shareholders in 32 countries

24,000 b-to-bsuppliers in

81 countries

Operating on healthily growing markets





Comparable EBIT by business area 2019

EUR 1,404m

UPM BIOREFINING

Pulp ~3%

Biofuels Strong

Timber ~2%

office papers ~4%

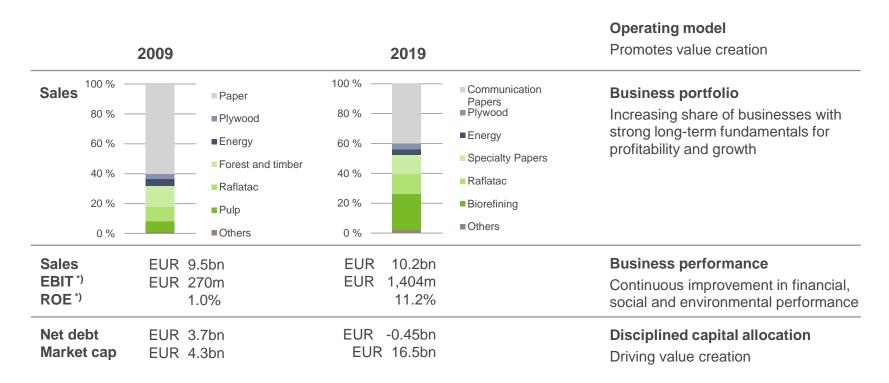
UPM RAFLATAC

Self-adhesive labels ~4%

UPM ENERGY Electricity ~1% Market demand trend growth, %

UPM in transformation





Biofore strategy

We create value by seizing the limitless potential of bioeconomy



PERFORMANCE



GROWTH



RESPONSIBILITY



INNOVATION

Strong long-term fundamentals for demand growth and high barriers to entry







SPECIALTY PACKAGING MATERIALS

Label materials Specialty papers

HIGH VALUE FIBRE

Forests

Pulp

MOLECULAR BIOPRODUCTS

Biofuels

Biochemicals

Communication papers

Plywood

Energy

Driving long-term value creation – mitigating climate change



UPMBIOFORE-BEYOND FOSSILS



We act through FORESTS
Climate-positive forestry



We act through EMISSIONS 65% less CO₂ emissions



We act through PRODUCTS
Innovate novel products

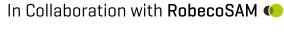
BUSINESS 1.5°C OUR ONLY FUTURE

Industry leader in responsibility



MEMBER OF

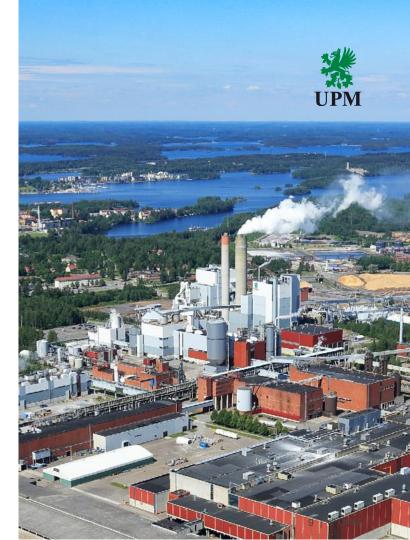
Dow Jones Sustainability Indices





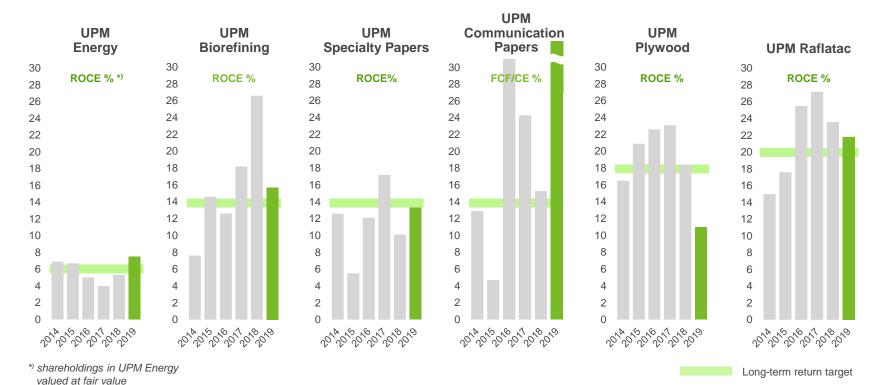






Business area returns and long-term targets

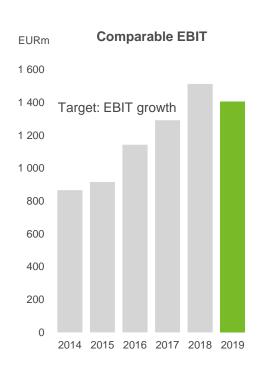




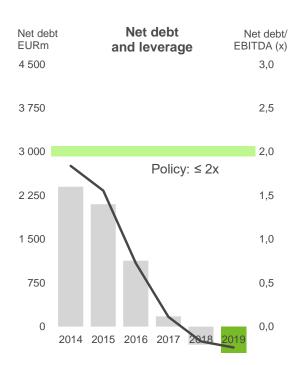
UPMBIOFORE-BEYOND FOSSILS

Group financial performance





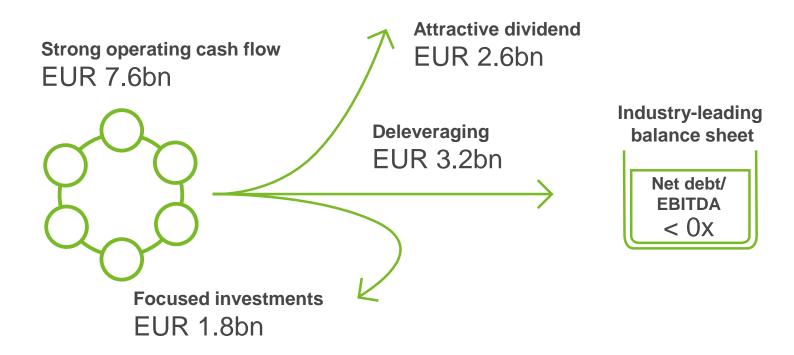




5-year cumulative cash flow (2015–2019)

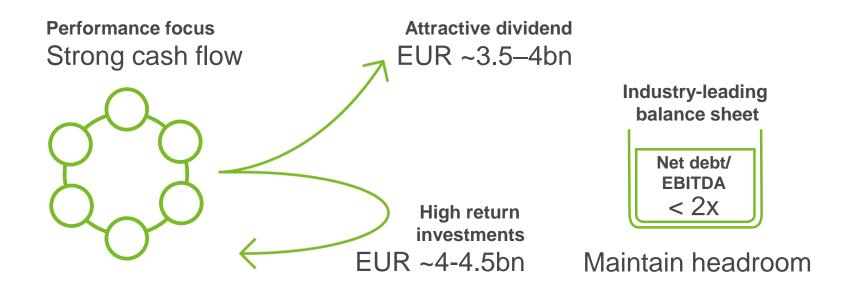
- efficient capital allocation in action





Illustrative capital allocation *) for the next 5 years

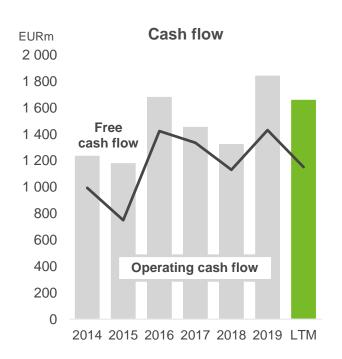




*) This is not a forecast

Consistent cash flow

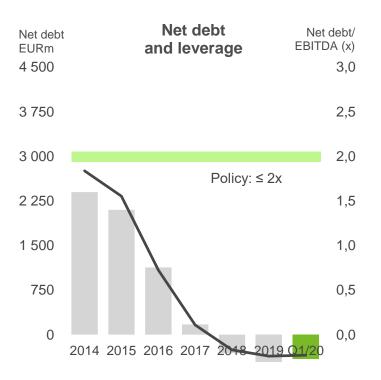




- Q1/20: operating cash flow was EUR 137m (320m in Q1/19), after the record level in Q4/19
- Working capital increased seasonally by EUR 212m (increased by 111m in Q1/19, decreased by EUR 227m in Q4/19)

Exceptionally strong financial position

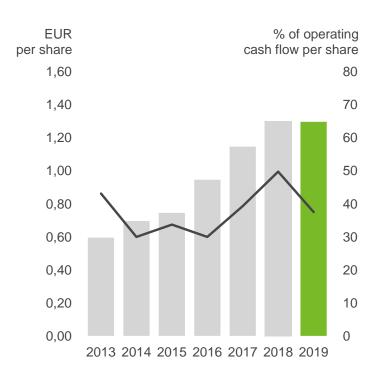




- Net debt EUR -405m at the end of Q1
- Cash funds and committed credit facilities
 EUR 2.2bn at the end of Q1
- Includes a new EUR 750m sustainabilitylinked revolving credit facility
- No financial covenants

Dividend for 2019: EUR 1.30 per share





Long term dividend policy

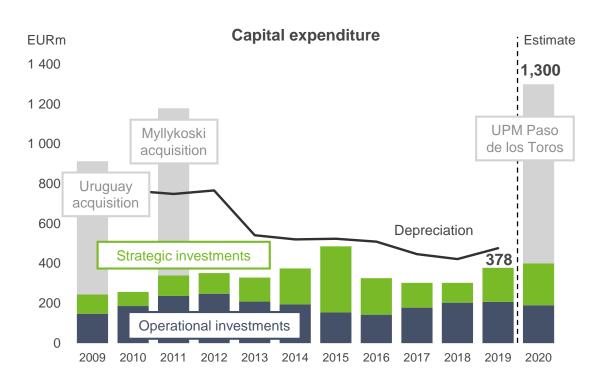
UPM aims to pay an attractive dividend,
 30–40% of operating cash flow per share

Dividend for 2019

- EUR 1.30 (1.30) per share, totalling EUR 693m
- 38% of 2019 operating cash flow

Transformative growth projects in pulp and biochemicals, low investment needs in existing assets





Capex estimate for 2020

- Total EUR 1,300m
- Includes EUR 900m on the new pulp mill and related capex in Uruguay
- Operational investment needs consistently low

2020 and the COVID-19 pandemic– safety, business continuity, demand and adjusting



UPM has implemented extensive precautions to protect the health and safety of its employees and to ensure business continuity and progress of its strategic projects.

Despite these efforts it is possible that during the pandemic the operation of one or more units or the supply chain and logistics could be disrupted.

Many of UPM products serve essential everyday needs and may see relatively resilient demand during the crisis. These products include pulp, specialty papers and self-adhesive label materials.

Demand for graphic papers, plywood and timber is likely to be affected by the pandemic-related lockdowns and the following recession. The lockdowns limit a wide range of services and retail that utilise printed advertising, as well as work at the office. This is likely to have a temporary negative impact on graphic paper demand.

UPM is planning to use shift arrangements, temporary lay-offs or reduced working hours as required to adjust to different scenarios.

2020 and the COVID-19 pandemic – investment projects and maintenance shutdowns



The pandemic and the required health and safety measures add challenge to large investment projects and maintenance shutdowns.

UPM Paso de los Toros pulp mill and related projects in Uruguay and UPM Leuna biochemicals refinery project in Germany are proceeding with strict health and safety controls. Despite these efforts, some changes to detailed timeline of the projects are possible during the pandemic. Currently the projects proceed in line with the planned start-up timeline.

Due to the COVID-19 pandemic, fuel loading into OL3 reactor will not take place in June 2020 as planned. It is possible that regular electricity production would be delayed respectively.

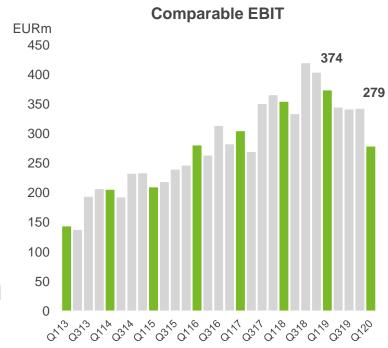
UPM has rescheduled two pulp mill maintenance shutdowns from Q2 2020 to Q4 2020.

The maintenance shutdown at the OL1 nuclear power plant in Q2 2020 will be shorter than usual.

Q1 2020: solid results, UPM well prepared for the current uncertainty and future recovery



- Sales decreased by 15% to EUR 2,287m (2,693m in Q1 2019) due to lower pulp price and lower deliveries of graphic papers
- Comparable EBIT decreased by 26% to EUR 279m (374m)
- The strike in Finland affected UPM's pulp, paper, plywood and timber operations
- The COVID-19 pandemic did not materially impact UPM's operations in Q1
- Record comparable EBIT in UPM Raflatac and UPM Specialty Papers



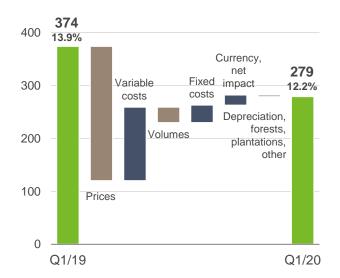
Comparable EBIT in Q1 2020



Sales prices decreased, clearly outweighing the impact of lower variable costs.

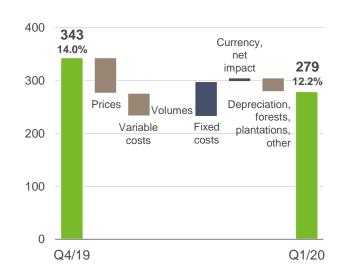
Fixed costs decreased, offsetting lower deliveries.

EURm 500



Sales prices decreased.
Seasonally higher energy costs, seasonally lower fixed costs.
No forest value gains in Q1/20.

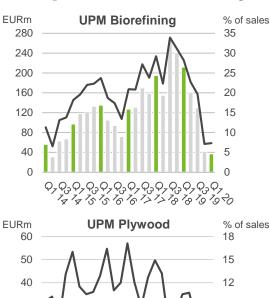
EURm 500 ----

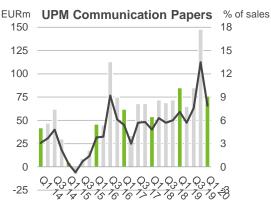


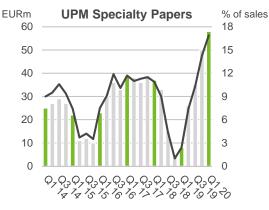
UPMBIOFORE-BEYOND FOSSILS

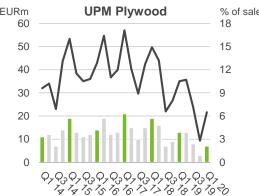
Comparable EBIT by business area

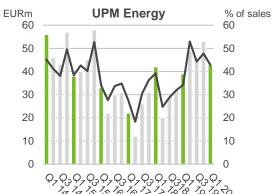


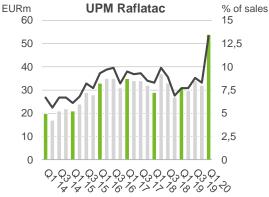












Continuously taking action to ensure competitiveness



UPM Communication Papers

- UPM Plattling PM 10 (LWC)
 -155kt closed down in Q3 2019
- UPM Rauma PM 2 (SC)
 -265kt, closed down in Q4 2019
- UPM Chapelle (newsprint)
 -240kt, plan to close down or sell by the end of Q2 2020
- UPM Nordland PM2 (fine)
 -200kt, conversion to release liner in Q1 2020
- New power plant in UPM Nordland in Q3 2022

All business areas and functions

- Continuous improvement programmes
 Variable costs, working capital, commercial
 strategies, maintenance and site costs, safety,
 environmental performance
- Efficient use of assets
- Fixed cost reduction
- Product and mix development
- Digitalisation
 Customer interface, planning, data analytics

UPM Biochemicals UPM invests in next generation biochemicals

- EUR 550 million investment in an industrial scale biorefinery at Leuna, Germany
- 100% wood-based biochemicals provide alternatives to fossil materials in various consumer-driven end-uses
- Total annual capacity of 220,000 tonnes
- Scheduled to start up by the end of 2022
- Safety and sustainability of the value chain based on UPM's high standards



UPM creates a totally new sustainable business with large growth potential

- Major milestone in UPM's transformation
- UPM biochemicals respond to the customers' increasing needs for renewable alternatives
- Current supply is limited and high-quality biochemicals are priced at a premium
- Sustainable wood supply, unique technology, existing infrastructure and proximity to customers enables a good cost position
- Attractive returns: ROCE target of 14% once the facility is fully ramped up and optimized



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









Large growth markets – unique sustainability value

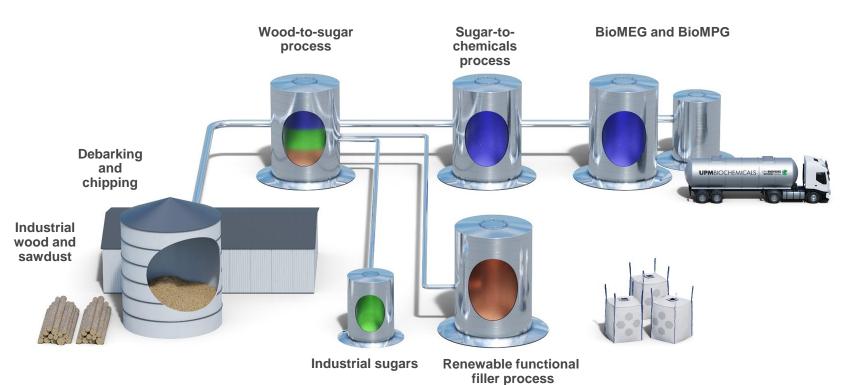




- The global glycols market is more than 30 million tonnes, with expected annual growth of approx. 4%
- The global market of carbon black and silica is more than 15 million tonnes, with expected annual growth of approx. 3%
- Current market supply based on non-renewable raw materials
- Customers increasingly 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

Unique technology converting wood to biochemicals



UPMBIOFORE-BEYOND FOSSILS

Attractive location in Germany and efficient value chain



- UPM is a responsible local producer with an entirely European value chain
- Chemical Site Leuna provides existing processes, logistics arrangements and infrastructure for various services and utilities
- Strong chemicals cluster in Germany with proximity to customers and suppliers
- Good availability of sustainably sourced hardwood from forest thinnings and residues of sawmills
- Innovation-friendly environment with strong universities, institutes and skilled potential employees





UPM invests in a world class pulp mill in Uruguay



- A highly competitive new pulp mill with annual production capacity of 2.1 million tonnes of eucalyptus pulp
- Mill investment of USD 2.7 billion
- Investments in port operations in Montevideo, local facilities in Paso de los Toros of USD 350 million
- Scheduled start-up in H2 2022
- Industry-leading safety and sustainability performance of the value chain from plantations to customers

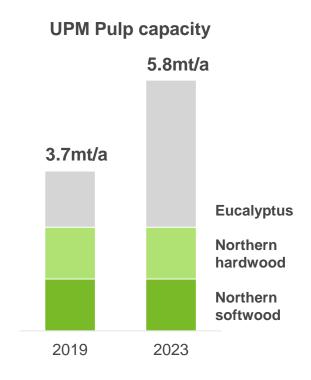




Transformative step in UPM's pulp business and in UPM's future earnings



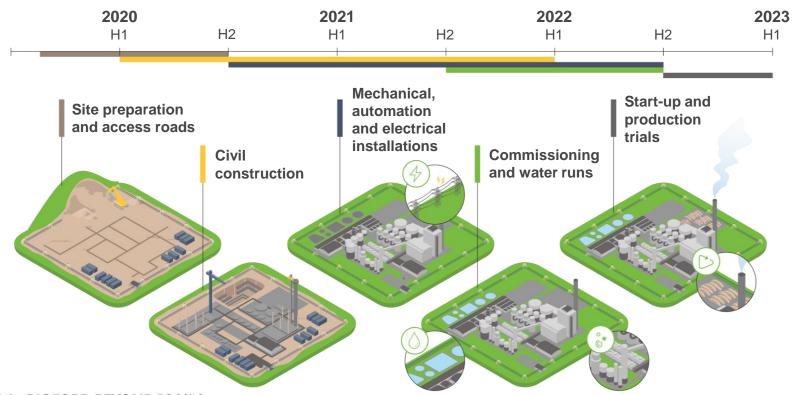
- Significant step for UPM's future earnings
 - One of the most competitive mills in the world
 - Expected cash cost level of USD 280 per delivered tonne of pulp(*
 - Attractive returns in various market scenarios
 - Carefully prepared to ensure long-term competitiveness and to minimise risks both in 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

UPM Paso de los Toros pulp mill construction schedule



State of the art mill design



- Initial production capacity of 2.1 million tonnes of eucalyptus pulp, with further potential
- Mill investment USD 2.7 billion, efficient investment level compared with corresponding projects
- World-class single line pulp mill and Best Available Techniques (BAT)
 - Excellent safety
 - Proven high environmental performance
 - High availability and maintainability
 - High energy output, surplus renewable electricity 110 MW
 - Low costs



Competitive wood supply



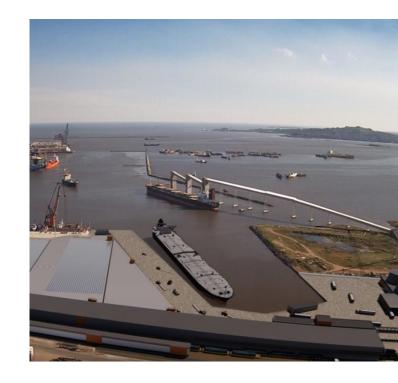
- Eucalyptus availability secured through UPM's own and leased plantations and wood sourcing agreements with private partners
- UPM's own and leased plantations in Uruguay cover 420,000 hectares, supplying both UPM Fray Bentos and the new mill near Paso de los Toros
- 30 years experience of sustainably managed and productive plantations



Efficient logistics set-up

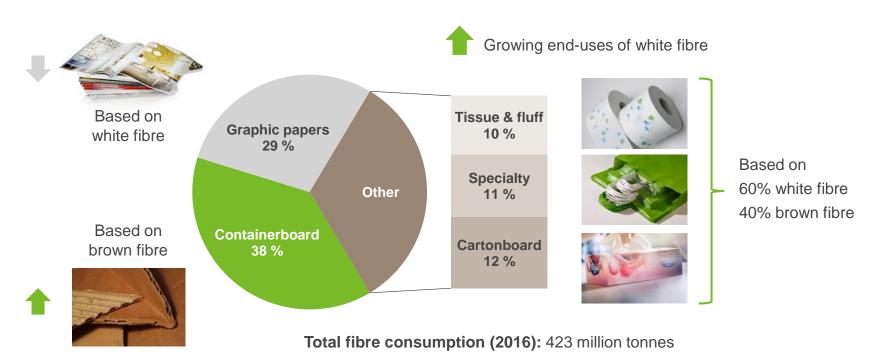


- UPM will invest USD 280 million to construct a deep sea pulp terminal in Montevideo port
 - Direct rail access from the mill to a modern port terminal creates an efficient supply chain to world markets
 - Synergies with the UPM Fray Bentos mill
- Agreed railway modernisation
 - Public-private-partnership agreement between the government and the construction company
- Agreed road improvements



Market pulp consumed in growing end-uses – supply of alternative white fibres declines





UPM Biorefining

500

400

300

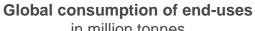
200

100

0

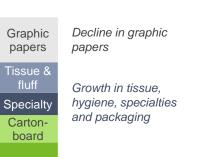
Pulp demand outlook





2015

in million tonnes



Strong growth

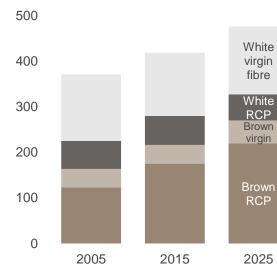
in containerboards

Container

-board

2025

Global consumption of fibres in million tonnes



Growing white virgin fibre end-uses overcome decline in graphic paper

Dwindling white RCP availability

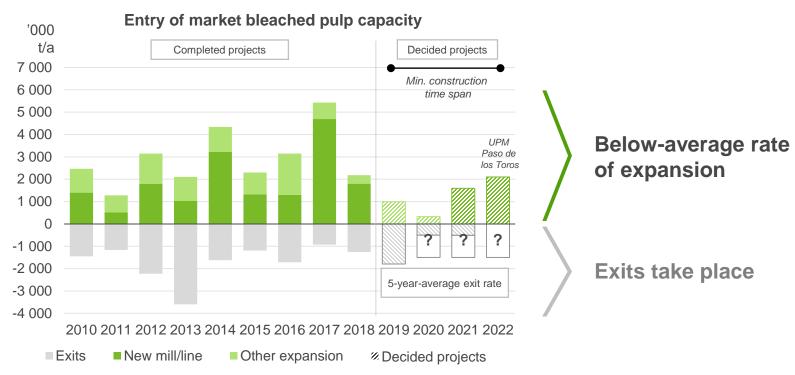
Strong demand for brown fibre

2005

UPM Biorefining

UPM

Few decided projects coming on stream in the short-term



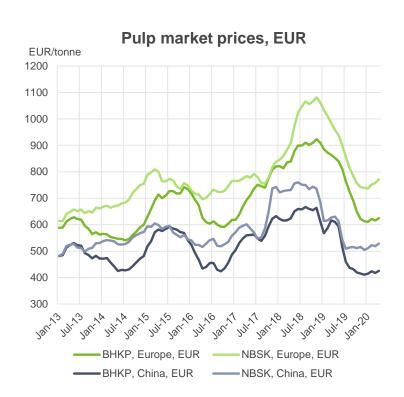
Note: Year 2022 including BHKP, BSKP, excluding fluff and dissolving

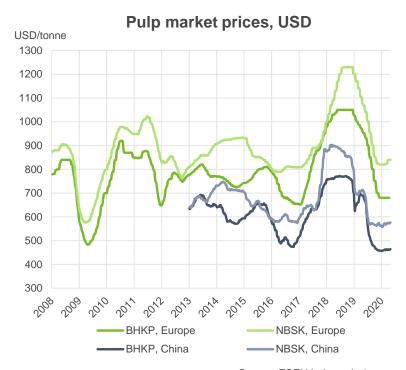
Sources: Pöyry, UPM

UPM Biorefining

Chemical pulp market prices







Source: FOEX Indexes Ltd

Developing our forest assets

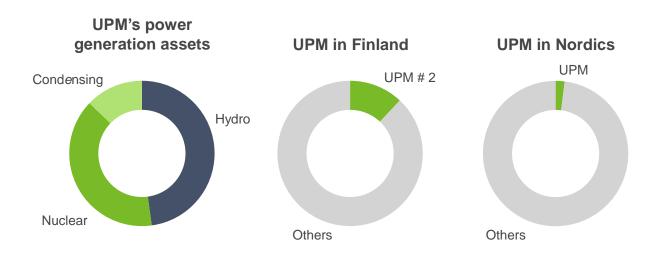


- Investing in strategic forest assets, e.g. in Uruguay
- Releasing capital from forests far from our mills
- Productivity with active management and nurseries
- Strong commitment to sustainability



UPM forests and plantations	2008	2019	Area dist	ribution
Forest and plantation land (own and rented) (1,000 ha)	1,012	991	8%	9% US
Forest growth (million m³)	4.3	8.9	90%	60% Finland
Wood sourced from UPM forests and plantations (million m ³)	2.2	3.7		
Value of forests and plantations, including land (EURm)	1,270	2,688		31% Uruguay
			2008	2019

UPM's power generationcompetitive in all market conditions



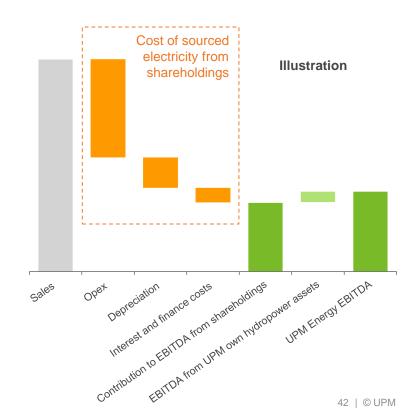


UPM Energy



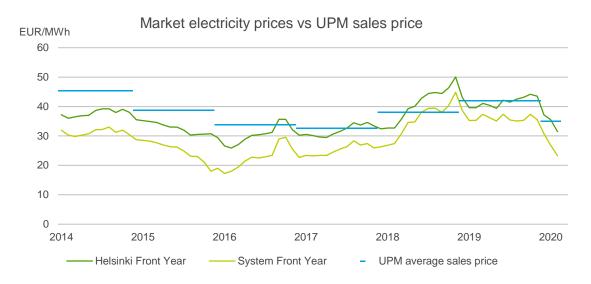
UPM Energy's power generation	MW	EURm
Hydropower holdings	549	748
Nuclear power OL1 and OL2	588	1,145
Nuclear power OL3 under construction	(494)	189
Condensing power	95	1
UPM Energy's shareholdings in total, valued at fair value	1,232	2,082
UPM own hydropower assets	166	
UPM Energy's in total (excl. OL3)	1,398	
UPM Energy capital employed		2,365

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



Cost efficient generation enables robust profitability in changing market environment





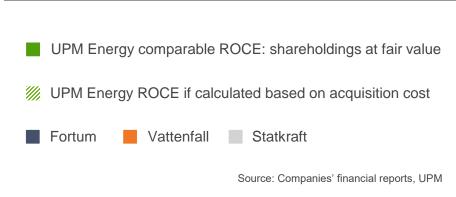
UPM Energy profitability	2015	2016	2017	2018	2019	Q1 2020
Comparable EBIT, EURm	181	116	91	123	185	43
% of sales	43.6	32.7	28.8	31.5	44.4	42.9

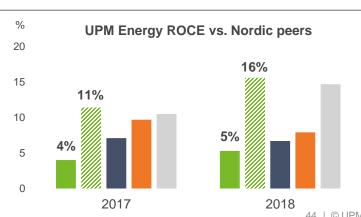
UPM Energy ROCE



- In UPM balance sheet, UPM Energy shareholdings are valued at fair value
- Energy market transformation is ongoing
- UPM Energy assets are competitive







UPM Raflatac

Self-adhesive labels in end-use





PHARMACEUTICALS



WINE, SPIRITS & CRAFT BEVERAGE



FOOD



HOME & PERSONAL CARE



DURABLES



TRANSPORT & LOGISTICS



RETAIL, OIL & INDUSTRIAL



A4 & CUT-SIZE



SECURITY & BRAND PROTECTION



TYRE

UPM Raflatac

The self-adhesive labelstock market



>EUR 8bn global market

~4% p.a. growth

Private consumption driven

Largest of the labelling technologies

~1/5 of total self adhesive materials markets

Strategy for profitable growth



Increased customer reach

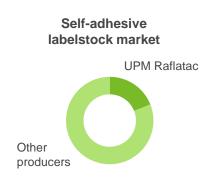


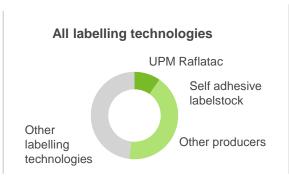
Wider product portfolio

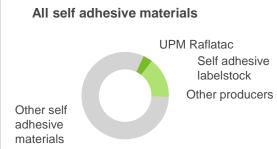


Winning operations

Enabled by strong common capabilities and global operating model Potentially accelerated with M&A if feasible







Focus on global Labelling materials, Packaging in Europe and Office paper in APAC





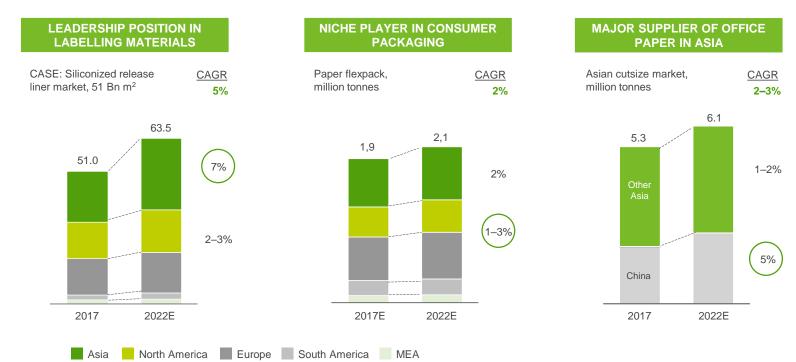




UPM Specialty Papers

Strong position in growing end use markets





Source: AWA; Pira, UPM

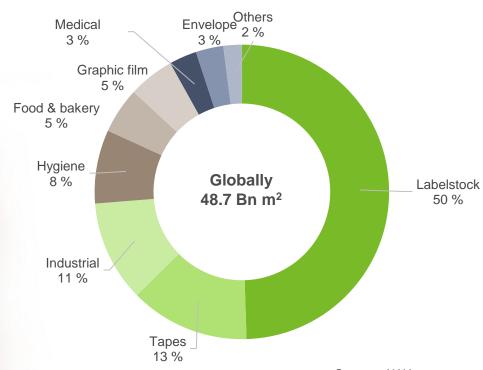
Release liner opportunities in labelstock & other applications



Product functions

Release liner carries the adhesive and face material:

- Prevents the adhesive from sticking permanently
- Important and often critical feature of a layered construction



Source: AWA

UPM Communication Papers

Our focus: Strengthen industry leadership role



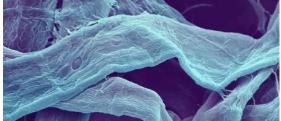
Uncompromising performance



Continued focus on stringent capacity management and performance improvement.

Zero accidents

2 Targeted innovation



Targeted investments in innovation to drive performance, increase efficiencies and extend our position in the market

Leadership

3 Commercial excellence



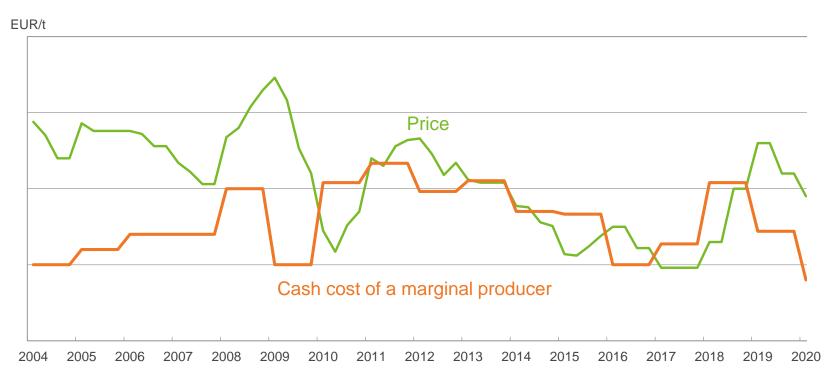
Optimize and evolve commercial interface and supporting processes to ensure supply security and customer value add.

Focused on sustainability

UPM Communication Papers

UPM

Paper price vs. cash cost of marginal cost producer



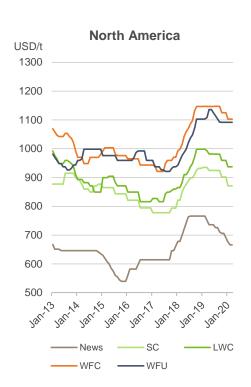
Sources: PPI, RISI, Pöyry

UPM Communication Papers

Graphic paper prices









Sources: PPI, RISI

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

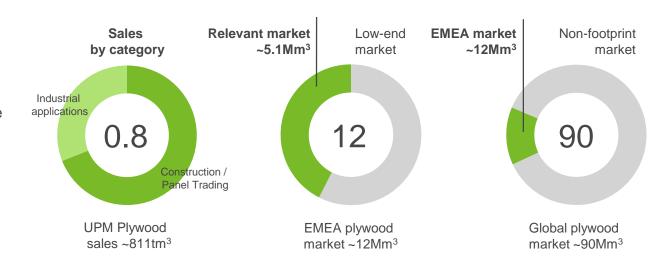
- Global leader in LNG plywood
- Competitive edge based on right quality and accurate on-time deliveries
- Long term commitment and benchmark service level
- Focus to secure leading position in LNG carriers and to extend offering into related applications using the same technologies (e.g. land storage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

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



Strategic choices

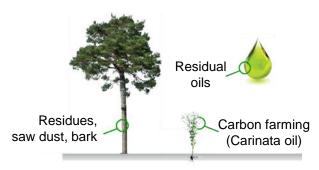
- Demanding industrial applications
- 2. High and medium range standard products
- 3. Selected customers
- EMEA region and LNG business globally



The possible Kotka Biorefinery: an innovative and robust concept to scale up the business



 Competitive and sustainable feedstocks



UPM feedstocks



Potential Kotka Biorefinery 500kt

Low-carbon fuels for road, aviation and petrochemicals



UPM renewable fuels

- ✓ World-scale biorefinery leveraging UPM ecosystem
- Significant efficiency gains enabled by economy of scale and synergies with Lappeenranta

UPMBIOFORE BEYOND FOSSILS