WE CREATE A FUTURE BEYOND FOSSILS

Investor presentation
July 2022
This is UPM

SALES 2021
EUR 9.8 BILLION

Wood-based raw materials

Low-carbon energy

BUSINESS AREAS:
- UPM FIBRES
- UPM ENERGY
- UPM RAFLATAC
- UPM SPECIALTY PAPERS
- UPM COMMUNICATION PAPERS
- UPM PLYWOOD
- OTHER BUSINESSES

54 production plants

17,000 employees in 46 countries

RENEWABLE AND RECYCLABLE PRODUCTS FOR:
- PACKAGING
- LABELLING
- TRANSPORTATION
- ELECTRIFICATION
- CONSTRUCTION

11,400 customers

200 million end-users globally
Our businesses

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

UPM Timber
Certified sawn timber

UPM Forest
Sourcing wood raw material for sustainable and recyclable products

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

UPM Raflatac
Self-adhesive label materials for promotion, information and functional labelling

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

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

UPM Biochemicals
Glycols, lignin products, renewable functional fillers

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

UPM Biocomposites
UPM ProFi decking materials and UPM Formi composite material
Biofore strategy drives our transformation as a bioeconomy frontrunner.

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

High performance, innovations and world-leading responsibility are the cornerstones. We create a future beyond fossils.
Long-term value creation driven by our spearheads for growth
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

DRIVING AMBITIOUS CORPORATE CLIMATE ACTION

UPM BIOFORE—BEYOND FOSSILS
Leader in responsibility

Sustainability Award
Gold Class 2022
S&P Global
Transformation proceeds at full speed – business mix drives earnings and shareholder value

**Spearheads for growth**

- Operating model: 33% → 5%
  - 5-year average EBIT margin (2017-21)
  - 17%

**Growing businesses**

- Communication Papers: 60% → 40%
- Performance Balance sheet: 33% → 5%
- Focused growth Innovation: 67% → 17%

**Gross sales**

- Gross sales 2009: EUR 9.6bn
- Gross sales 2021: EUR 11.0bn

**Future sales**

- Future sales: EUR 11.0bn

*) This is an illustration, not a forecast

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**Communication Papers**

- 60% in 2009
- 40% in 2021

**Operating model**

- 33% in 2009
- 5% in 2021

**Performance Balance sheet**

- 67% in 2009
- 17% in 2021

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**Growing businesses**

**Gross sales 2009**: EUR 9.6bn
**Gross sales 2021**: EUR 11.0bn

**Future sales**: EUR 11.0bn

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*) This is an illustration, not a forecast
Transformation improves UPM’s asset mix, driving returns

Capital employed 2019:
- EUR 11bn
- 52%

Future capital employed:
- EUR 3-4bn(*)
- 48%

5-year average ROCE (2015-19):
- 17%
- 6%

ROCE target >14%

Spearheads for growth:
- Industrial operations: Further growth
- Forest and energy assets: Sustainable value creation

*) This is an illustration, not a forecast
Earnings back to strong pre-pandemic levels

Comparable EBIT

EURm

- Target: EBIT growth

Comparable ROE

%

- Target: 10%

Net debt and leverage

- Net debt EURm
- Net debt/EBITDA (x)

Net debt EURm
- 4 500
- 3,0

Comparable ROE
- Target: 10%

Comparable EBIT
- Target: EBIT growth

Policy: ≤ 2x

Target: EBIT growth

Target: 10%

Policy: ≤ 2x

0 200 400 600 800 1 000 1 200 1 400 1 600 1 800

0 2010 2012 2014 2016 2018 2020 LTM

0 2 4 6 8 10 12 14

0 2010 2012 2014 2016 2018 2020 LTM

0 2010 2012 2014 2016 2018 2020 Q222

0 750 1 500 2 250 3 000 3 750

0 0,5 1,0 1,5 2,0 2,5

0 0 200 400 600 800 1 000 1 200 1 400 1 600 1 800

0 2010 2012 2014 2016 2018 2020 LTM

0 2010 2012 2014 2016 2018 2020 Q222
Business area long-term return targets

- **UPM Energy**
  - ROCE %
  - Shareholdings in UPM Energy valued at fair value

- **UPM Fibres**
  - ROCE %

- **UPM Specialty Papers**
  - ROCE%

- **UPM Communication Papers**
  - ROCE%
  - FCF/CE %

- **UPM Plywood**
  - ROCE %

- **UPM Raflatac**
  - ROCE %

* Shareholdings in UPM Energy valued at fair value
** Year 2021 restated, UPM Biofuels moved into Other Operations as of 1 January 2022.
UPM by business area in 2021

**Sales**
- Biorefining: EUR 9,814m
- Energy: EUR 1,471m
- Raflatac: EUR 12,657m

**Comparable EBIT**
- Biorefining: EUR 1,471m
- Energy: EUR 12,657m
- Raflatac: EUR 9,814m
- Specialty Papers: EUR 1,471m
- Communication Papers: EUR 12,657m
- Plywood: EUR 9,814m
- Other: EUR 12,657m

**Capital employed**
- Biorefining: EUR 12,657m (average)
- Energy: EUR 9,814m
- Raflatac: EUR 12,657m
- Specialty Papers: EUR 1,471m
- Communication Papers: EUR 12,657m
- Plywood: EUR 9,814m
- Other: EUR 12,657m
Transformative growth projects in the most intensive phase in 2021-2022

Capex estimate for 2022

- Total EUR 1,500m
- Includes EUR 1,300m on the transformative growth projects, pulp in Uruguay and biochemicals in Germany
- Operational investment needs consistently low
Liquidity on 30 June 2022 was EUR 1.5bn (cash funds and unused committed credit facilities)

UPM’s committed credit facilities:
- EUR 160m rolling committed overdraft facility maturing 2023
- EUR 500m bilateral revolving credit facilities (EUR 300m maturing 2025 and EUR 200m maturing 2027)
- EUR 750m committed syndicated revolving credit facility maturing 2027

No financial covenants
Dividend: 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 2021
• EUR 1.30 (1.30) per share, totalling EUR 693m
• 55% of 2021 operating cash flow
Record Q2 earnings with successful margin management in exceptional business environment

• Sales increased by 7% to EUR 2,562m (2,384m in Q2 2021)

• Comparable EBIT grew by 26% to EUR 387 million, 15.1% of sales (307m, 12.9%)

• Sales prices increased in all business areas and more than offset the negative impact of higher variable costs

• Only one month of normal full production during H1 2022

• Transformative growth projects in Uruguay and in Germany proceed well
Comparable EBIT in Q2 2022

EURm

Q2/21 | Q2/22
--- | ---
Prices | 307 | 387
Variable costs | 12.9% | 15.1%
Volumes | 307 | 387
Currency, net impact | 15.1% |
Depreciation, forests, plantations, other | | |
Fixed costs | | |

Comparable EBIT in Q1 2022

EURm

Q1/22 | Q2/22
--- | ---
Prices | 277 | 387
Variable costs | 11.0% | 15.1%
Volumes | 277 | 387
Currency, net impact | 15.1% |
Depreciation, forests, plantations, other | | |
Fixed costs | | |
Comparable EBIT by business area

**UPM Fibres
d (%) of sales**

**UPM Communication Papers
d (%) of sales**

**UPM Specialty Papers
d (%) of sales**

**UPM Plywood
d (%) of sales**

**UPM Energy
d (%) of sales**

**UPM Raflatac
d (%) of sales**

*) Year 2021 restated, UPM Biofuels moved to Other Operations as of 1 January 2022
H1 2022 cash flow impacted by unprecedented rise in energy futures prices

EBITDA 883
-361 Change in WOC, excl. energy hedges
-288 Financial items, taxes & adj.

Operating CF -1101 -867

Free CF -1577

CF before financing -2297

Energy hedges-related CF -710

Investing CF

Dividends -720

Unprecedented rise in energy futures prices

Inflation and supply chain ramp-up

Growth projects in intensive phase

Growth projects in intensive phase
Strong financial position, net debt temporarily impacted by the timing of cash flows

- Net debt EUR 2,688m at the end of Q2 2022
- Net debt / EBITDA 1.42
- Cash funds and committed credit facilities EUR 1.5bn at the end of Q2 2022
- Additional two credit facilities signed in July totalling EUR 0.5bn
- No financial covenants
Outlook for 2022

• UPM’s comparable EBIT is expected to increase in 2022 from 2021, and in H2 2022 from H2 2021.

• Significant uncertainties remain in the outlook for 2022, related to the war in Ukraine, the ongoing pandemic, growth in the European and global economy, the energy prices and availability in Europe, the start-up of the OL3 power plant unit, and the tight raw material and logistics markets.

• In the first half of the year, production was significantly affected by the strike at the Finnish units of UPM Pulp, UPM Biofuels, UPM Raflatac, UPM Specialty Papers and UPM Communication Papers. This no longer limits production and as a result, UPM’s delivery volumes are expected to increase in H2 2022 from H1 2022. In the full-year 2022 result, the estimated impact of the strike is not material.

• Sales prices and variable costs are expected to be higher in H2 2022 than in H1 2022 in most of UPM businesses. UPM will continue to manage margins with product pricing, optimising its product and market mix, efficient use of assets as well as by taking measures to improve variable and fixed cost efficiency.
UPM impacts of Russia’s war in Ukraine

We have started providing humanitarian and material support to Ukraine.

UPM Raflatac’s distribution terminal in the Kyiv region has been closed until further notice.

For the time being, UPM has decided to suspend:

- its deliveries to Russia
- purchasing of wood in and from Russia
- operations at its Chudovo plywood mill

In 2021, UPM’s sales to Russia and Ukraine combined was approx. 2%.

Assets in Russia were less than 1%.

Less than 10% of UPM’s wood sourcing to Finland originated from Russia.

Q1/22 items affecting comparability: EUR 95m impairment charges
Q1/22 comparable EBIT: EUR 17m provision on expected credit losses
UPM is a large producer and consumer of energy

**Electricity**
Separate market-driven operations at UPM Energy and the energy-consuming businesses

- **Generation:** 14.0 TWh
- **Consumption:** 11.7 TWh
- UPM Energy 99% CO₂-free
- Low-emission combined heat & power plants at mills

**Fuels**
70% of all fuels are renewable, from the industrial processes

- **Renewable:** 26.0 TWh
- **Fossil:** 11.0 TWh
- **Renewable**
- **Natural gas**
- **Other fossil**

**Hedging**
Approx. 60% of electricity and fuel purchases hedged for 2022

**CO₂**
due to implemented emission reductions, UPM has more emission allowances than it needs

Figures are for 2021. See Annual Report 2021 for more information.
The UPM Forest Action programme takes a holistic view, covering the five fundamentals of responsible forestry:
Developing our forest assets

<table>
<thead>
<tr>
<th>UPM forests and plantations</th>
<th>2008</th>
<th>2021</th>
<th>Area distribution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forest and plantation land (own and leased) (1,000 ha)</td>
<td>1,012</td>
<td>1,057</td>
<td>US 8% 7%</td>
</tr>
<tr>
<td>Forest growth (million m³)</td>
<td>4.3</td>
<td>8.8</td>
<td>Finland 90% 49%</td>
</tr>
<tr>
<td>Wood sourced from UPM forests and plantations (million m³)</td>
<td>2.2</td>
<td>3.6</td>
<td>Uruguay 44%</td>
</tr>
<tr>
<td>Value of forests and plantations, including land (EURm)</td>
<td>1,270</td>
<td>3,241</td>
<td>2008 2021</td>
</tr>
</tbody>
</table>

Investing in strategic forest assets in Uruguay
Releasing capital from forests far from our mills
Productivity with active management and nurseries
Strong commitment to sustainability
New business in wood-based biochemicals

Responding to strongly growing demand for sustainable solutions

Industrial scale 100% wood-based 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 Biochemicals

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
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 biochemistrys fit directly into customers’ processes and the existing recycling infrastructure.
UPM Fibres

UPM Paso de los Toros – World-class pulp mill

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

Scheduled to start up in Q1 2023
UPM Fibres

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

UPM Pulp capacity

<table>
<thead>
<tr>
<th></th>
<th>2019</th>
<th>2023</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eucalyptus</td>
<td>3.7mt/a</td>
<td>5.8mt/a</td>
</tr>
<tr>
<td>Northern hardwood</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Northern softwood</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

Initial production capacity of 2.1 million tonnes of eucalyptus pulp, with further potential

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
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 500,098 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
UPM Fibres

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

Graphic papers
Based on white fibre

Growing end-uses of white fibre

Containerboard
Based on brown fibre

Total fibre consumption (2020): 419 million tonnes

- Tissue & Fluff 13%
- Specialty 11%
- Cartonboard 12%

Based on 65% white fibre
35% brown fibre
UPM Fibres

Pulp demand outlook

Global consumption of end-uses in million tonnes

- Graphic papers: Decline in Graphic papers
- Tissue & fluff: Stable growth in tissue, hygiene, specialties and cartonboard
- Specialty: Strong growth in containerboards
- Containerboard

Global consumption of fibres in million tonnes

- White virgin fibre: Growing white fibre end-uses overcome decline in graphic papers
- White RCP
- Brown virgin
- Brown RCP: Strong demand for brown fibres continues
Moderate numbers of decided projects in the short-term

**Entry of market bleached pulp capacity**

- **Completed projects**
- **Decided projects**

Net additional capacity, 1000 t/a

- 5-year-average market pulp exit rate: 1.5 Mt

- **Exits**
- **New mill/line**
- **Other expansion**

Note: including BHKP, BSKP, excluding fluff and dissolving

Source: Afry, UPM estimate
UPM Fibres

Chemical pulp market prices

Pulp market prices, EUR

EUR/tonne


Pulp market prices, USD

USD/tonne


Source: FOEX Indexes Ltd
UPM Energy

UPM’s power generation – competitive in all market conditions

UPM’s power generation assets

Condensing

Hydro

Nuclear

UPM in Finland

UPM # 2

Others

UPM in Nordics

UPM

Others
### UPM Energy

#### UPM Energy

<table>
<thead>
<tr>
<th>UPM Energy’s power generation</th>
<th>MW</th>
<th>EURm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydropower holdings</td>
<td>560</td>
<td>1,092</td>
</tr>
<tr>
<td>Nuclear power OL1 and OL2</td>
<td>588</td>
<td>1,561</td>
</tr>
<tr>
<td>Nuclear power OL3 (PTO 12/2022)</td>
<td>494</td>
<td>499</td>
</tr>
<tr>
<td>Thermal power</td>
<td>154</td>
<td>1</td>
</tr>
<tr>
<td>UPM Energy’s shareholdings in total, valued at fair value</td>
<td>1,796</td>
<td>3,152</td>
</tr>
<tr>
<td>UPM own hydropower assets</td>
<td>166</td>
<td></td>
</tr>
<tr>
<td>UPM Energy’s in total (incl. OL3)</td>
<td>1,962</td>
<td></td>
</tr>
<tr>
<td>UPM Energy capital employed</td>
<td></td>
<td>3,276</td>
</tr>
</tbody>
</table>

UPM Energy sources electricity from part owned energy companies at full cost (cost-price principle, mankala principle)
OL3 will increase UPM Energy's carbon free electricity generation by nearly 50%

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

OL3 will significantly improve Finland's self-sufficiency in electricity, and raises the share of Finland's carbon neutral electricity generation to about 90%
Cost efficient generation enables robust profitability in changing market environment

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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Comparable EBIT, EURm</td>
<td>91</td>
<td>123</td>
<td>185</td>
<td>171</td>
<td>270</td>
<td>136</td>
</tr>
<tr>
<td>% of sales</td>
<td>32.7</td>
<td>28.8</td>
<td>31.5</td>
<td>44.4</td>
<td>45.0</td>
<td>45.9</td>
</tr>
</tbody>
</table>
Self-adhesive labels in end-use

- Pharmaceuticals
- Wine, spirits & craft beverage
- Food
- Personal care
- Home care
- Durables
- Transport & logistics
- Industrial Chemical
- Retail
- A4 & cut-size
- Security & brand protection
- Tyre
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.

**Growth drivers**
- Packaging unit growth in Food, Personal Care, Beverage
- E-Commerce growth & parcel logistics
- Niche segments (e.g. pharmaceuticals)
- Further trends benefitting labelstock: sustainability, wet glue substitution

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

**Impact to labelstock demand**
- Consumer stockpiling
- Lockdowns
- Value chain inventory cycle
- Private consumption changes

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

**Indicative share of UPM Raflatac business (%)**
- High: ~70%
- Medium: ~15%
- Low: ~15%

**Resilience of demand**
- High: Food, Beverage, Home care, Pharma
- Medium: Logistics
- Low: e.g. durables, tyre, luxury goods
Early signs of recycling impacts: Packaging decisions to favour labelstock

<table>
<thead>
<tr>
<th>PACKAGING TYPE</th>
<th>GROWTH CAGR</th>
<th>LONGER TERM OUTLOOK</th>
<th>LABELSTOCK RELEVANCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rigid plastics</td>
<td>3.0%</td>
<td>Higher</td>
<td>High</td>
</tr>
<tr>
<td>Glass &amp; Metal</td>
<td>0.9%</td>
<td>High</td>
<td>High</td>
</tr>
<tr>
<td>Fibre-based</td>
<td>2.2%</td>
<td></td>
<td>Low</td>
</tr>
<tr>
<td>Flexible packaging</td>
<td>3.0%</td>
<td>Lower</td>
<td>Low</td>
</tr>
</tbody>
</table>

Source: Euromonitor September 2020; UPM Raflatac perspective
UPM Specialty Papers

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

UPM Specialty Papers is well positioned for growth in the selected markets

**LABEL & RELEASE**
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

Market growth forecast, CAGR 2020-2025

- Global release liner
  3-4%

- Global flexible packaging
  2-4%

- APAC office papers
  1-2%

Source: AWA, Pira, UPM
UPM Specialty Papers

GROWTH STRATEGY

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

Committed value creation

Brand based value

Focused, committed and agile

Co-creating remarkable products

Globally recognized leadership
UPM Communication Papers
Graphic paper prices

Europe

North America

China

Graphical representation of paper prices in Europe, North America, and China. The prices are displayed in EUR/t and USD/t for different types of graphic paper: News, SC, LWC, WFC, and WFU. The data sources are PPI and RISI.
UPM Plywood

UPM Plywood focuses on three end use segments

Construction

Vehicle flooring

LNG shipbuilding

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

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

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’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

Sales by category
- Industrial applications: 0.7
- Construction / Panel Trading: ~683tm³

Relevant market ~5.1Mm³

Low-end market
- UPM Plywood sales ~683tm³

EMEA market ~12Mm³
- EMEA plywood market ~12Mm³

Non-footprint market
- Global plywood market ~90Mm³
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 500,000t of renewable fuels incl. sustainable jet fuel

Potential investment in Rotterdam, the Netherlands
Carbon mitigation in transport is dependent on renewable fuels despite recent decline in fuel consumption.

*The two degree scenario (2DS) is calculated vs. 2005 reference per sector (-30% 2030, -40% 2040, -50% 2050)
Source: UPM based on WoodMackenzie, Bloomberg, ICAO, EIA
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

CLIMATE-POSITIVE FUELS
Efficient carbon neutral production

DECARBONIZED TRANSPORT AND PETROCHEMICALS
Flexibility to create maximum value from several end uses and market geographies

Carbon stored to soil in each cycle

Cellulosic fuels

Renewable diesel, gasoline and jet

E-fuels future potential

Efficient carbon neutral production

Decarbonized transport and petrochemicals

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

Carbon stored to soil in each cycle

Efficient carbon neutral production

Decarbonized transport and petrochemicals

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

Carbon stored to soil in each cycle

Efficient carbon neutral production

Decarbonized transport and petrochemicals

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