The industry transformation by 2050: Sensing the future

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The Confederation of European Paper Industries

Outline

- 2050 Our industry has a vision and a time horizon
- Industry transformation is gaining pace
- More technology step-changes are on the horizon
- A more stable EU policy framework is being set for the next decade
- Advancing a circular bio-economy agenda will be key for the future



the forest fibre and paper industry in

unfold the future

205.

The forest fibre and paper industry in 2050

Investing for Industry Transformation in Europe

Roadmap towards a low-carbon bioeconomy

2050 roadmap to a low-carbon bioeconomy

+50% added-value -80% carbon emissions



Delivering 50% more added-value?

Annual added-value 2010-2050 in the EU forest-fibre and paper industry





Value creation will come from...



Material innovation

Design innovation

Delivery innovation



Corrugated board?





Aircraft paper honeycomb structures





Novel light bulbs?



Courtesy CTP



Soda and beers bottles



Courtesy CTP



Decarbonising by 80%?



2015 49 million tonnes CO₂



2050 12 million tonnes CO₂





EU forest-fibre and paper industry greenhouse gases emissions in Mt CO₂e

Direct emissions

Purchased electricity

Transport

Source Gaia 2016



Industry's transformation is gaining pace



Energy efficiency, renewable integration, climate change: 14 projects from 12 companies in 10 EU countries



Trends of production (t), energy consumption (TJ) and CO_2 emissions (per TJ) of the European paper Industry (2005-2015)



We are two machines away from 2050

EU forest-fibre & paper industries cumulative investments for decarbonisation in €Bn



Source: Gaia 2016



DES technology is now ready for pilot



Lower heat and energy Reduced CAPEX



Natural solvents based High purity side products



http://www.providespaper.eu



A policy frame for the next 10 years

EU regulatory frame

LULUCF - forest accounting Renewable energy directive

CEPI's position

✓ Secure biomass carbon neutrality
✓ Prevent a cap to harvest levels
→ RE distortion / wood markets?

recycling

Circular economy package Packaging waste directive \checkmark Increase collection for recycling

- ✓ Drive quality standards for PfR
- ightarrow Paper mills as final recycler?
- ✓ Secure level of carbon credits
- ✓ Allocate funds for new tech.
- \rightarrow Harmonised rules for indirect costs
- ✓ Support demand side flexibility





energy & climate

Emissions trading Scheme Energy market and governance



...what's next on the table



bioeconomy

EU challenges

Mainstreaming bioeconomy Enhancing carbon benefits within a circular economy

Our challenges

Everybody turns "bio" – how do we differentiate and get EU supporting markets growth?



R&D

Streamlining EU R&D funding, Adjusting budget to Brexit Focusing on clear deliverable

Where should we focus R&D efforts? And how to make industry relevant for future R&D programmes?



climate change

Revision of EU commitments under the Paris agreement... Let's implement first the new ETS ! How do we go beyond -80% emissions?



Advancing a circular bioeconomy?

renewable and recyclable

75% certified sourcing 75% recycled

renewed and recycled





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thank you

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