

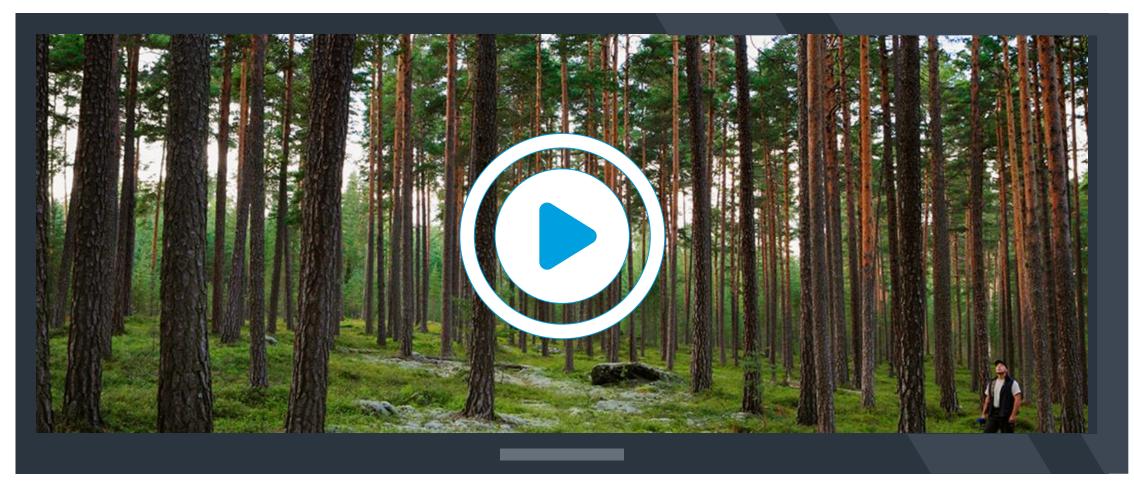
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What a tree can do





Stora Enso in brief



Leading provider of renewable solutions

Some 26 000 employees in 30 countries

Sales in 2018 EUR 10.5 billion Shares listed in Helsinki and Stockholm









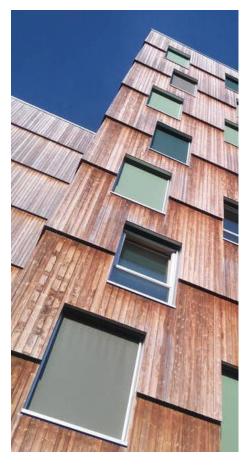


We are a solution for how to respond to consumers new demands – We are The Renewable Materials Company









Our renewable products











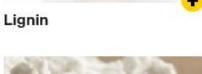








Intelligent packaging



Paperboard materials

Packaging solutions







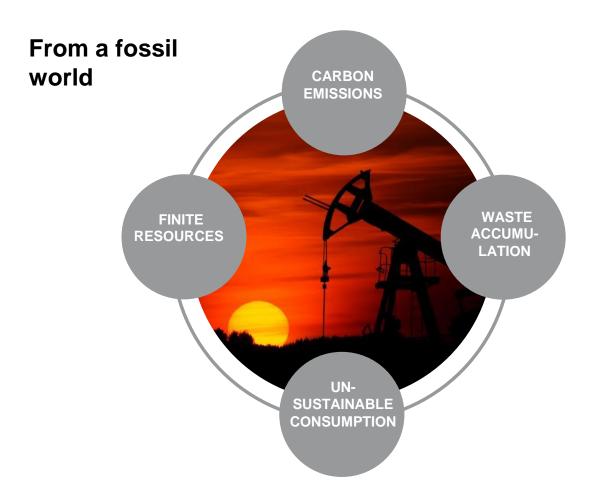
Market pulp

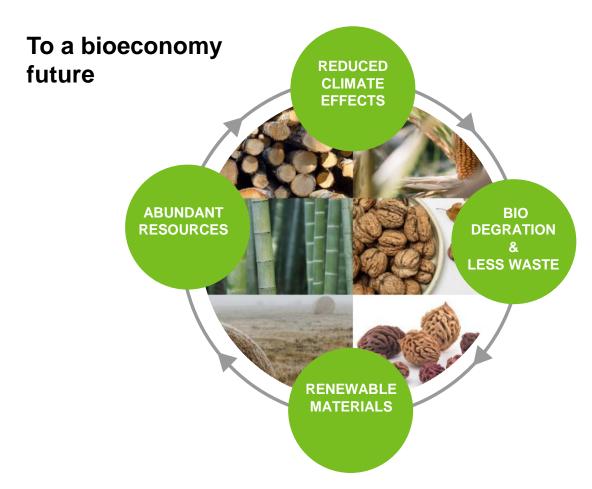
Speciality papers

Paper 6 21 March 2019 Stora Enso

Stora Enso's mission is to support customers in meeting consumers demand for eco friendly solutions





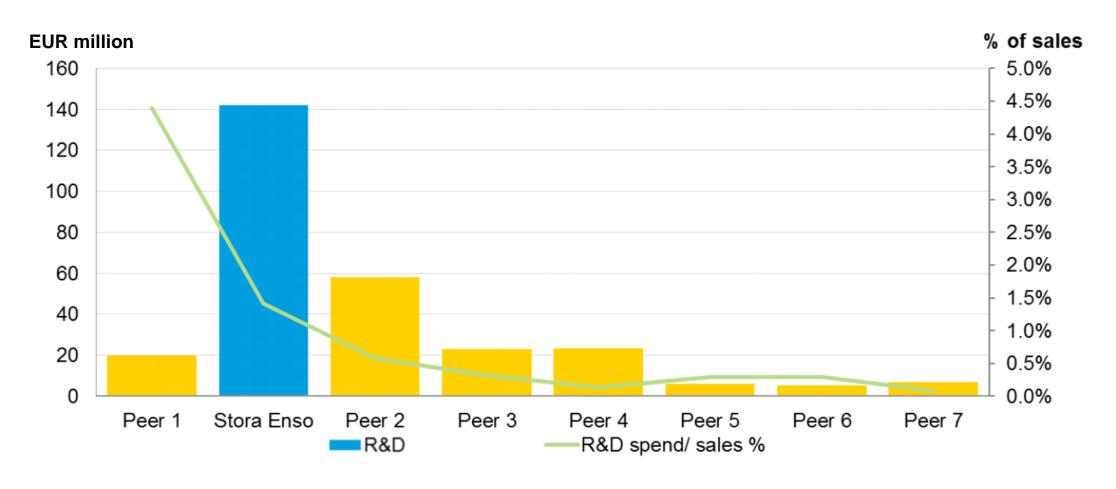


In 2018, Stora Enso's expenditure on research and development was EUR 149 million, which was equivalent to 1.4% of sales.

56 priority founding patent applications filed and over 324 patents granted worldwide

We take the lead in innovation in our industry





Peers:
Borregaard
IP
Metsä Board
Mondi
SCA
Smurfit Kappa
UPM

Source: Stora Enso, annual reports 2017

These are our drivers for accelerating renewable growth



In 2018

9%

of our sales came from new products and services

Long-term 15% target

of our sales is expected to come from new products and services





Growing middle class



Global warming



Eco awareness



Urbanisation



Changing lifestyles







Growing population

Increasing regulation related to circular economy Europe as driver





Governments and companies are taking action

pollution



India just banned all forms of disposable plastic in its capital

National tribunal prohibits use of cutlery, bags and other plastic items amid concern over pollution of the sea



Leading the cycle - Finnish

2016-2025















China moves to tackle 'white'

Ikea commits to phase out single-use plastic products by 2020

Global retailer with 363 stores says it wants to help customers live



Ben & Jerry's pledges to ban all single-use plastics by



B B C NEWS

MONEY NEWS JANUARY 31, 2019 / 12:33 AM / 2 DAYS AGO

50 nations 'curbing plastic pollution'

Goldman Sachs ditches single-use plastic

products



Starbucks to Eliminate Plastic Straws Globally by 2020

Hilton hotels vow to ban plastic by end of 2018

► An estimated 25 million single use plastic items a year will be removed from hotels across Middle East, Europe and Africa



Our vision is to replace fossil based materials with renewable ones























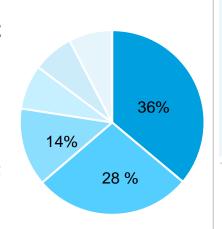
Consumer Board - well positioned in the bioeconomy





Sales by product

- Liquid Packaging Board
- Folding Boxboard
- Food Service Board
- Coated Unbleached Kraft
- Solid Bleached Sulphate
- Others





Nr 1 in LPB globally
Nr 1 in LPB, CUK and SBS in Europe

+2.5%

Global market growth

- premium consumer boards



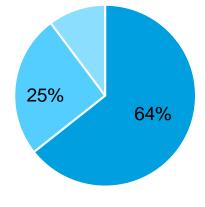


Asia-Pacific

21 March 2019

Others

Stora Enso



Renewable material from certified forests and plantations



share of new products
40+
joint customer projects
30+
digitalization projects

15%



Our strategy provides a solid platform for profitable growth Grow faster than the global packaging market (>5% p.a.)





Global leader in attractive end-use segments



Customer driven innovations based on renewable materials

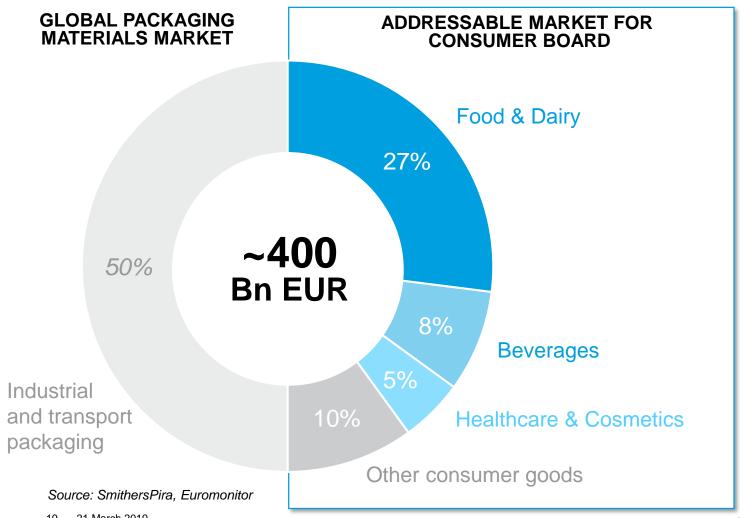


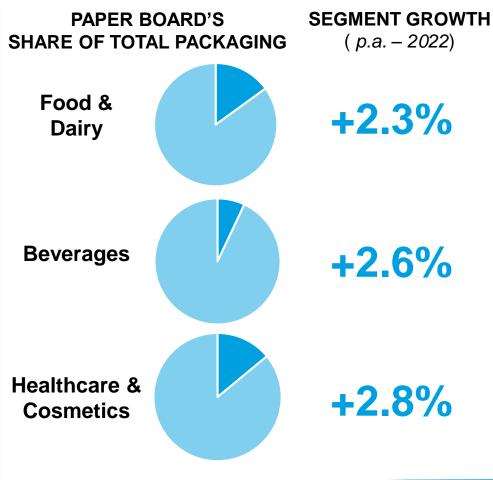
Competitive and well-positioned assets

Diverse teams and motivated employees

Our addressable market offers significant growth opportunities in attractive end-use segments







Design for circularity - the Single Use Plastic directive creates significant growth opportunities



European parliament adopted the *Single Use Plastic Directive* on October 24th

The aim is to *reduce plastic littering* by targeting the 10 most frequently found single-use plastic items in the marine environment

A range of *different measures* to reduce single use plastic waste and littering are proposed, including:

- Market restrictions
- Consumption reductions
- Product design requirements
- Extended Producer Responsibility

Measures become legally effective in the EU Member States earliest mid-2021. However, markets are evolving already – brand owners and retailers make decisions on phasing out single use plastic items in their portfolio

A great opportunity to accelerate the substitution of plastics with board in Europe

60%

share of plastic in single use food & beverage containers and cups in Europe

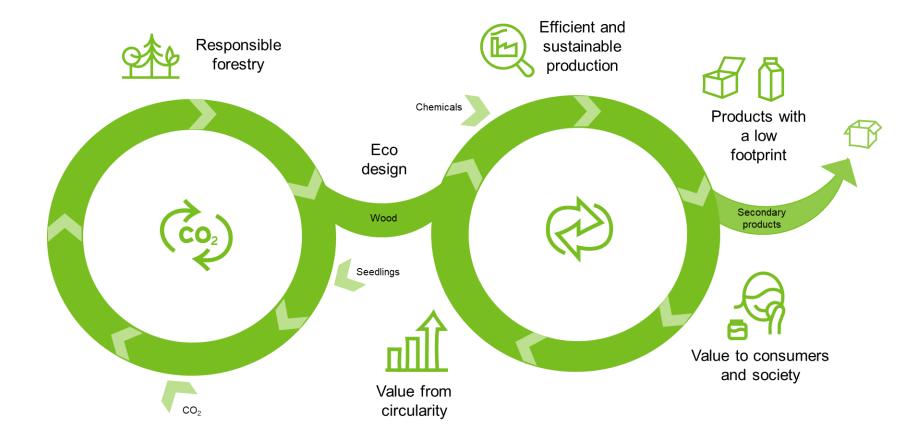
....but also a potential threat to barrier boards



Polymer coated paper board is currently in the scope of the directive, extent and consequences are unclear

Our packaging materials are renewable and circular





Circular design covers the whole value chain



No wasted fibers

Product design for recyclability

Compacting after use

Resource-efficient design

Preventing food loss and food waste

Value in secondary uses



No plastic substrate: 100% paper-based



Clean and green manufacturing



Low carbon footprint



Recyclable



Accelerating change with customers, partners and start-ups





Our target is 25% of sales from new products and services 2018 level is 15%



BIO-BARRIERS AND FILMS

REPLACING PE-FILMS IN CUPS

POUCHES FOR LOW TO MEDIUM SHELF LIFE

REPLACING ALUMINIUM FOIL

POUCHES WITH HIGH BARRIER PROPERTIES







LIDS





GLOBAL MARKET SIZE

~**80**Bn EUR

BIO-COMPOSITES

STRAWS



CAPS, CLOSURES & PACKAGING COMPONENTS

2019-2021



RIGID CONTAINERS



TRAYS

2021-2023



CAPS WITH HINGES

2023-2025



TUBES



~25
Bn EUR

Source: SmithersPira, internal analysis

Close collaboration with Customers

Replacing plastic in ready meal trays with Iceland Foods







Renewable innovations with long term partner Source reduction with Elopak





Replacing plastic straws Agile development with start-up companies





The New York Times

Finnish Firms to Tackle Plastic Pollution With Renewable Straws

By Reuters

Dec. 4, 2018









27 21 March 2019

Stora Enso

HELSINKI — Finland's Stora Enso, one of the world's largest pulp and paper makers, said on Tuesday it had joined forces with local startup Sulapac to develop renewable and biodegradable straws to combat the global plastic waste problem.

We deliver sustainable and profitable growth

Grow faster than the global packaging market (>5% per year)





Customer driven innovation



Competitive and well-positioned assets

Diverse teams, inclusive culture and motivated employees



Thank you!