

# Welcome to Fiskeby Board







# Fiskeby mill visit November 7<sup>th</sup> 2018

- History, mission and core business
- Environmental improvements and challenges
- Lunch
- Transfer to Fiskeby
- Mill and biogas plant tour

MSc. Chem. Eng. Magnus Johanson Mgr Quality Management







# Fiskeby's history

1637	Royal Charter from Queen Kristina
1872	Machine Mill
1953	Board machine using recycled fiber
1969	Extruder
1987	Rebuild of board machine
1990	American ownership
2007	Privately-owned
2010	Waste to energy facility
2013	Packaging line
2015	Biogas plant & introduction of Multiboard Premium





### Facts 2017

• Employees 290

Net turnover
728 MSEK

Board production
170 000 tonnes

Sheeted production 129 000 tonnes

• Extruded production 13 000 tonnes

• Electricity produced 31,7 GWh

Steam produced 272 GWh

Owner
Fiskeby Holdings LLC USA





## Location

Production Site Norrköping

Sales Norrköping

Leeds

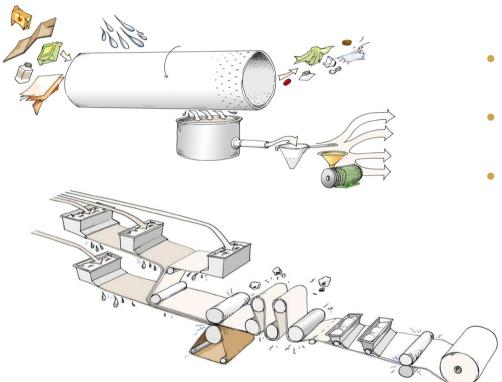
Ottobeuren

Business partners Istanbul

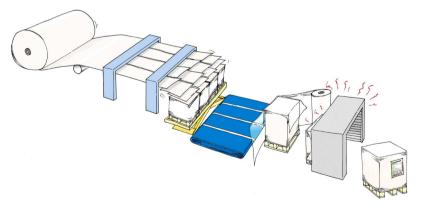




# Production principle



- Recycled paper based material disintegrated and cleaned
- The pulp is turned into complex 4-ply WLC board
- In-line surface coating, off-line sheeting and protective packaging ends the manufacturing process





### **Multiboard®**

### Approved for all types of food

- BRC-IOP
- Meets all demand for direct food contact with dry food in compliance with BfR
- MULTIBOARD® Barrier is approved for direct contact with greasy and moist foodstuff in compliance with BfR and Swedish National Food Administration's food regulatory standard (SLVFS 2003:2)

























### Multiboard®

### For competetive packaging

Multiboard® is a range of strong, environment-friendly, value-for-money packaging boards that have been developed for creative, functional packaging solutions.



Multiboard® Offset



Multiboard® EcoFrost



Multiboard® Kraft



Multiboard® EcoKraft



Multiboard® Barrier



Multiboard® Premium





# A retrospectiv glance

#### **Positive**

- Strong market position
- Fiskeby wwt was BAT
- 25 % less electricity use

### Negative

- Costs rising
- Bottle necks defined







# Strategy: Sustainability focus

#### Energy management

Loops, electricity generation, non-cellulose recovered

Increase paper recycling

Renewable resources, packaging planning

Emissions management

Low specific emissions, heat recovery, low chemical and energy use, biogas

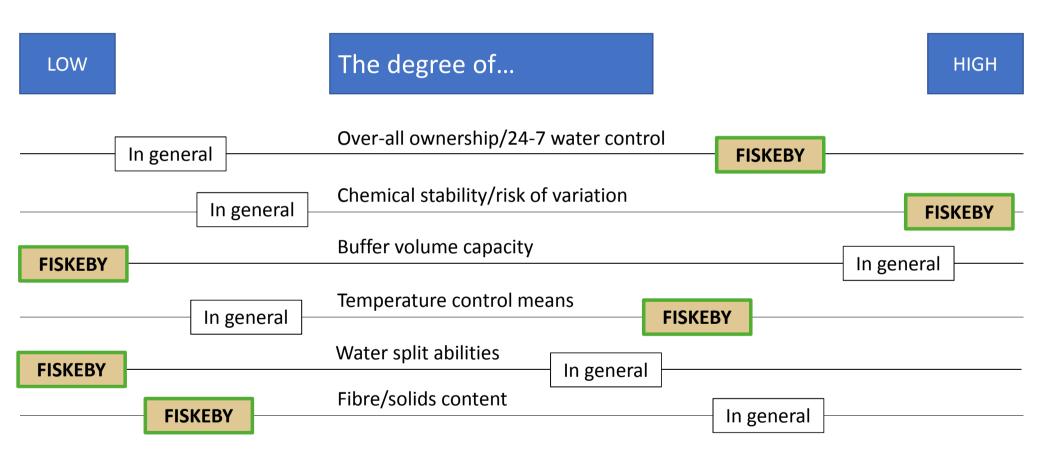
Other actions

Recycling, logistics solutions, costs awareness, competence building





# P&P Industry Process Water Conditions





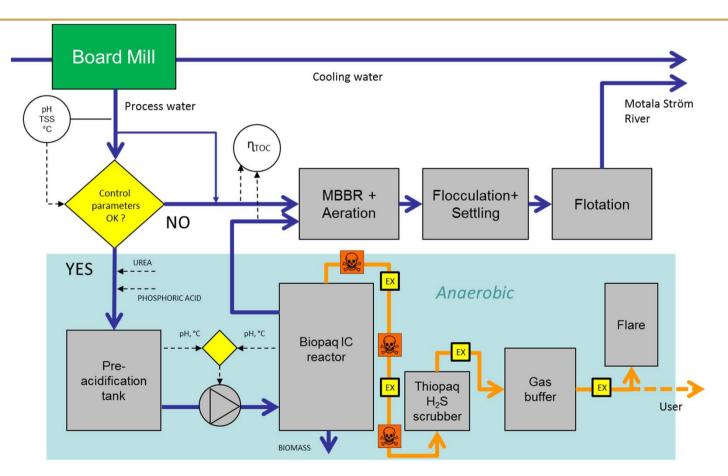
# **Process Water Management**

### **Anaerobic pre-treatment**

- Paques IC reactor
- Federal subsidy
- Start-up autumn 2015
- High level of security

#### **System control**

- Violation by-passes the IC
- Nutrients dosed on demand
- Stops carefully planned





# IC/UASB Learnings

- Control strategy success factor
- Quick response to load changes
- Project objectives fulfilled
  - (capacity, rate of efficiency, chemical usage, electricity savings)
- Biomass growth rate bonus
- No odour issues
- Emergency stop does not exist





www.fiskeby.com

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United Kingdom

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