



Development and commercialisation of cellulose ethanol technology

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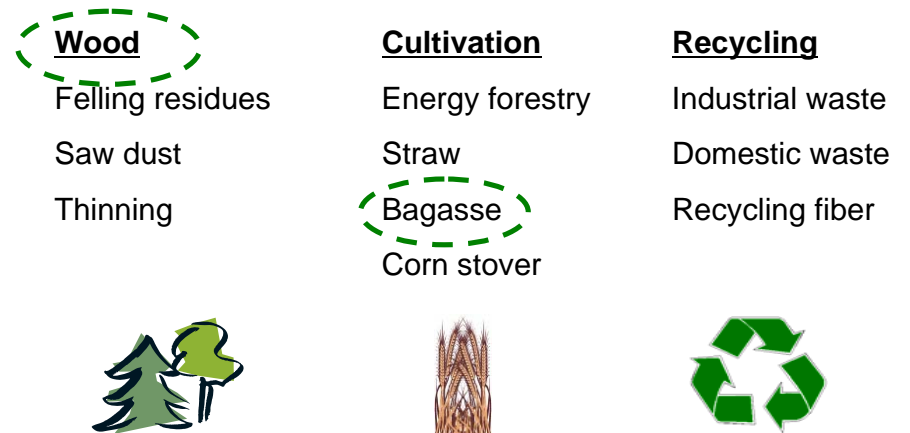
Why cellulosic ethanol?

The cellulose potential

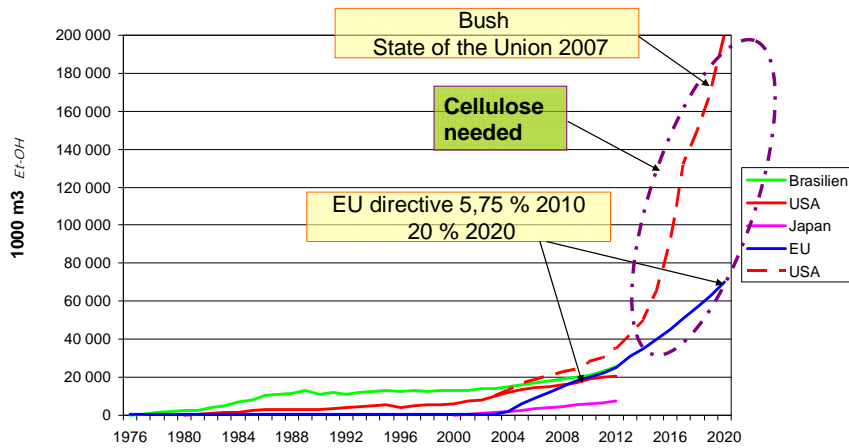
- most common biomass on earth



Flexible feedstock base for cellulose based ethanol production



Increasing targets for use of biofuels



Feedstock
+ cellulose

Litre ethanol
per ha/year

Corn
+ stover 2.500 +1.200 **3.700**

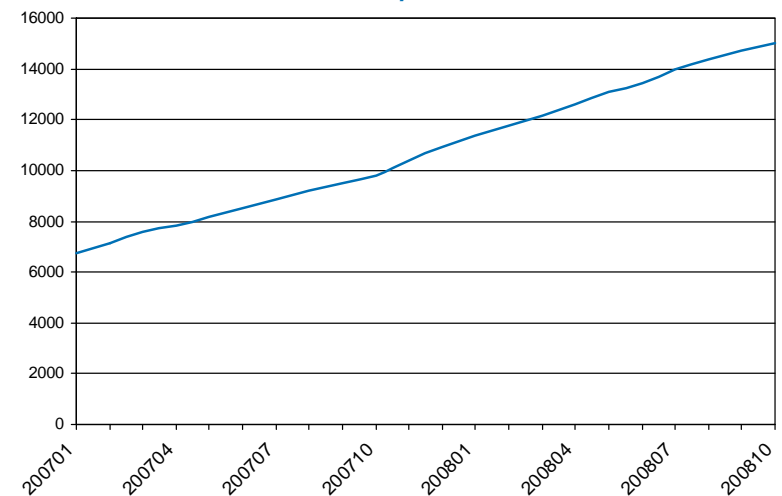
Wheat
+ straw 1.800 +1.100 **2.900**

Sugar cane
+ bagasse 8.000 +4.000 **12.000**



SEKAB cellulose ethanol
R&D Pilot Plant

Accumulated operation hours



THE SEKAB CELLULOSE ETHANOL R&D STRATEGY

- Development and scale up of cost efficient process technology for integrated cellulose ethanol production.
- Focus on wood, increase knowledge of other raw materials.
- Strong networks within research and commercialisation.

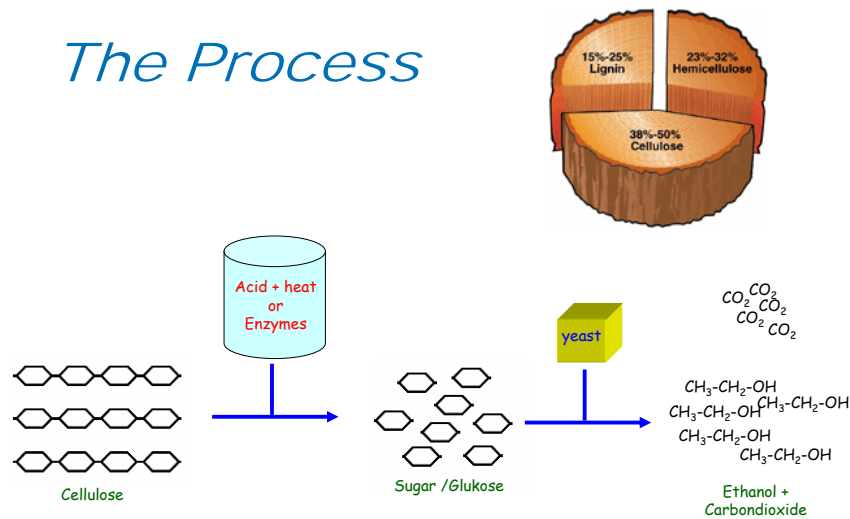


"Our VISION

is to be an international Center of Excellence for the development of cellulose based bioethanol combines."



The Process



Do we need the pilot?

Deposits



Material



Yes, to design and test the process!!

Mechanical design



Operability 3-5 days (17 record)

Process control

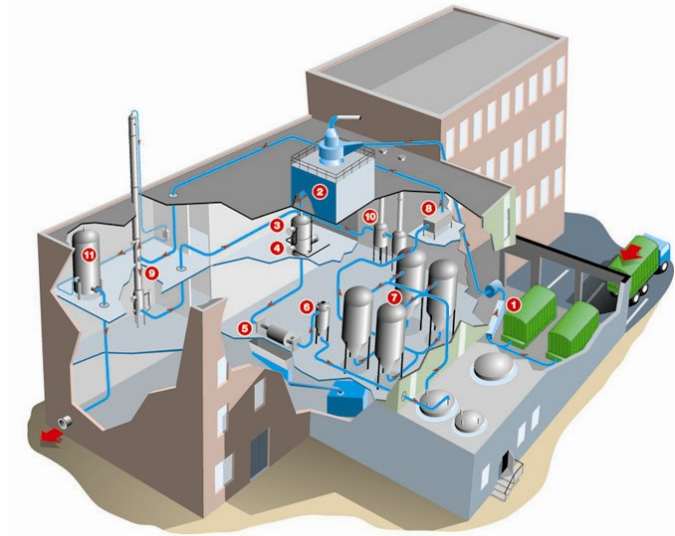
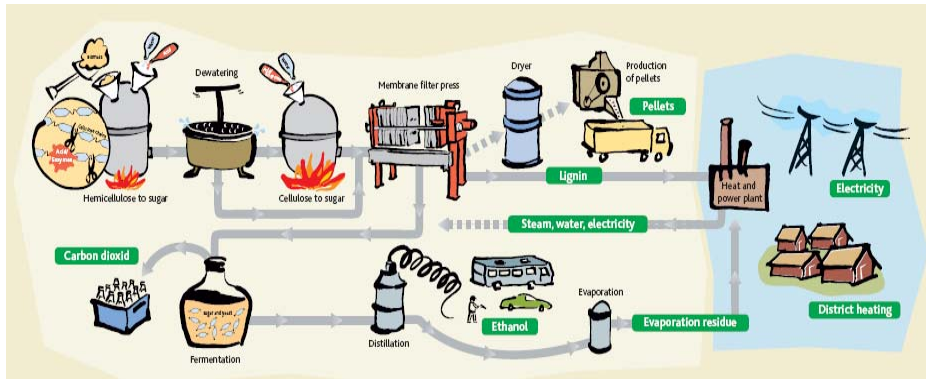


Yeast, enzymes

Ethanol from cellulose

Integration is a must!

Heat and power / Biorefineries



For your safety



Thank you!

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