



CH

BIOFORCE

The Bioforce of Nature

# THE BEST BIOMASS FRACTIONATION TECHNOLOGY IN THE WORLD



# BIOFORSENSE

## OUR HIGH-QUALITY BIOPOLYMERS

### CELLENSE

Dissolving cellulose is manufactured for applications that require a high chemical purity and a particularly low hemicellulose content. The biggest market at present is the textile industry, where it is used as a substitute for cotton and oil-based raw materials.



CELLENSE

### XYLENSE

Polymeric hemicellulose can be used in the production of various daily products, such as takeaway coffee cups, cosmetics and food. In cosmetics, hemicellulose gives lotions a smooth, easily applicable consistency.



XYLENSE

### LIGNENSE

Lignin can be found in every tree and plant on earth, constituting about a third of their biomass. It can be used in a myriad of applications as an emulsifier, dispersant, binder, adhesive and additive in industries as diverse as construction, agriculture, water treatment, oil drilling and ore processing.



LIGNENSE



# MATERIAL FLOW



1

Industrial biomass side streams from waste to value

2

Biomass, such as straw or wood chips, collected and sent to producer

3

Producer turns the biomass into hemicellulose, lignin, or cellulose using Bioforsense technology

4

Hemicellulose, lignin and cellulose sold to consumer product manufacturer

5

Material is used in producing consumer products, replacing oil- and food-based raw materials



# JOIN THE BIOFORSENSE REVOLUTION

High-quality materials produced by Bioforsense technology can replace fossil- and food-based raw materials in an ecologically and economically profitable way.

Lignocellulosic biomass is one of the richest sources of biopolymers on earth. Of the main constituents of wood – cellulose, hemicellulose and lignin – only cellulose, or pulp, tends to be utilised today, with the rest of the biomass generally being disposed of as waste. CH-Bioforce is here to change this.

## A COMPLETELY NEW WAY OF PROCESSING BIOMASS

With the revolutionary Bioforsense technology, almost any kind of biomass can be utilised as raw material – e.g. wood or straw. The core of our innovation is pressurised hot water extraction (PHWE), meaning the process is practically chemical-free.

Bioforsense technology is flexible in size, enabling a profitable investment – even with a smaller production capacity.



# CONTACT US

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