### **Sustainable Production**



#### Biomass power plant:

Thanks to bran, wood and biogas, we produce our own sustainable green energy



#### Promoted transport by ship:

direct access to the river Meuse and the major ports of Antwerp-Rotterdam-Amsterdam (ARA)



#### Circular economy:

for suppliers, partners and local customers



## Sustainability certifications



#### Products made from biomass

- Zero Waste production concept
- Greenhouse gas reduction during the whole production process
- Helping customers to reduce carbon foot print
- High quality products for plate, tank, trough and more





#### Raw materials & Products

10,000 t of Belgian sugar beets and 800,000 t of feed wheat from Belgium and neighbouring countries each year









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# **OUR PRODUCTS**



## Renewable ethanol

Climate friendly alternative to fossil fuel.



## Gluten - wheat protein

Beneo Pro VWG for bakery goods and feedstuffs, e.g. aquacultures.



#### BeneoPro W-Tex

Gluten as basis for meat alternative. Worldwide marketing by BENEO (Südzucker Group).



## Liquefied CO,

Purified green  $\overline{CO}_2$  generated during fermentation is used e.g. in the food, beverage and pharmaceutical industries.



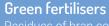
# ProtiWanze® - liquid protein feed

For cattle, pigs and pet food. Local feedstuff that contributes to the European protein supply marketed by local partners in Belgium and neighbouring countries.



#### Wheat bran (GMP+)

Used in feedstuffs for cattle and pigs.





Residues of bran combustion in the biomass power plant, rich in potassium, phosphorus and calcium



#### Green Power

Fed into the public grid and capable of compensating for any potential shortages in electricity supply.

# Advantages of renewable Ethanol

- Ethanol (alcohol) for fuel applications in Super E5, E10 or E85
- Renewable fuel produced from local biomass, contributing to the security of European energy supply
- Reducing greenhouse gas and fine particules emissions
- Higher octane number than petrol, used as octane booster (ETBE)
- Compatible with all combustion engines
- Our products only contain as much CO<sub>2</sub> as the biomass previously absorbed during growth

INNOVATIVE PRODUCTION
PROCESS REDUCING
GREENHOUSE GAS
EMISSIONS BY UP TO
80% COMPARED TO
FOSSIL FUELS

# BioWanze at a glance

- Start of production: 2008
- Member of CropEnergies Group
- Investment volume: 245 million €
- Ca. 130 employees and several hundred indirect jobs in the region
- Annual production capacity:
  - · 300,000 m3 Renewable Ethanol
  - 60,000 t Gluten
  - 65,000 t Liquefied CO<sub>2</sub>
  - 420,000 t ProtiWanze®
  - 15,000 t Bran GMP+
  - · 20,000 t Green fertiliser
  - 180,000 Mwh Green Electricity
  - Biogas

