

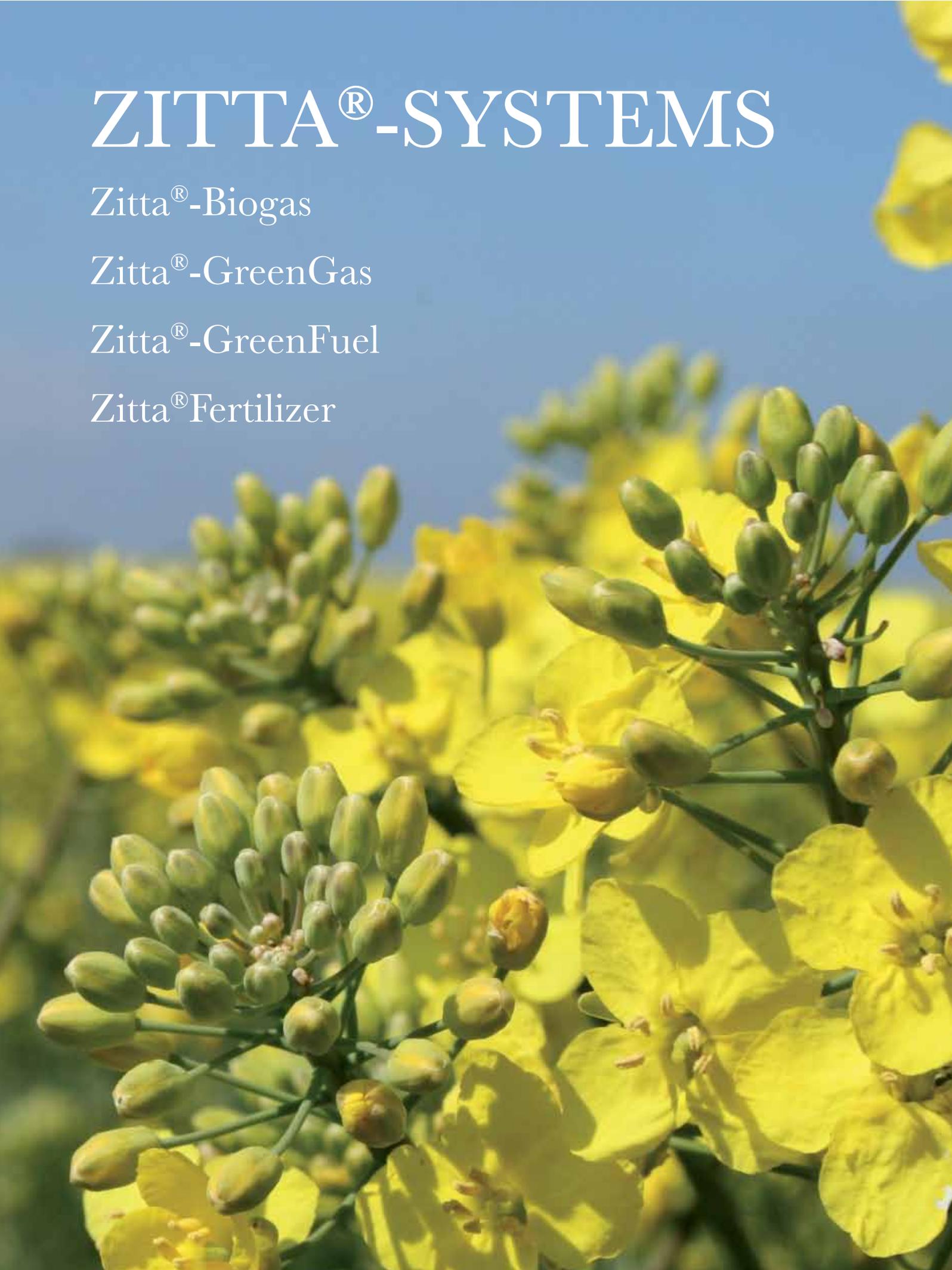
ZITTA[®]-SYSTEMS

Zitta[®]-Biogas

Zitta[®]-GreenGas

Zitta[®]-GreenFuel

Zitta[®]Fertilizer



ZITTA[®]-SYSTEMS

ZITTA[®]-SYSTEMS TRANSFORM MANURE AND BIOMASS INTO:

- Zitta[®]-Biogas
- Zitta[®]-Fertilizer, NPK – industrial fertilizer
- Zitta[®]-GreenGas
- Zitta[®]-GreenFuel

ZITTA[®]-SYSTEMS TRANSFORM DIGESTED BIOMASS INTO:

- Zitta[®]-Fertilizer, NPK – industrial fertilizer
- Zitta[®]-GreenGas
- Zitta[®]-GreenFuel

ZITTA[®]-GREENGAS TRANSFORM BIOGAS INTO:

- Pure methane
- Pure CO₂



ZITTA[®]-SYSTEMS

Zitta[®]-Systems is a turnkey product that is delivered in containers which can be connected to any existing biogas plant or new.

Zitta[®]-Systems is designed to treat manure and other biomass before processing it in the digester or treating the digested biomass.

Before the treatment of the ingoing manure or digested biomass, the manure or biomass is separated into a fiber fraction and a liquid fraction.

The Zitta[®]-Systems reduce the content of Nitrogen (N) and potassium (K) to a minimum. The reduced NK liquid can hereafter be recycled or mixed with the separated fibers before these are transported into the digester.

ZITTA[®]-BIOGAS HAS SIGNIFICANT HIGHER EFFICIENCY

The concept of Zitta[®]-Biogas includes new tools leading to significant higher efficiency of the biogas plant.

The Zitta[®]-Systems introduce the possibility to control and regulate the Nitrogen containment in the digester. Together with the pH control the digester process can be optimized to produce more biogas.

Reduction of Nitrogen and regulation of pH in the biomass in combination with temperature allow the digester to work on thermophilic process (52 ° Celsius). Hereby the stay time of biomass is cut to half time. In other words the digester has doubled the capacity compared to the mesophilic process (38° Celsius).

New Zitta[®]-Biogas plants can be built smaller with the same capacity compared with a conventional biogas plant leading to lower investment costs.



CONVENTIONAL BIOGAS PLANTS CONVERTED TO ZITTA®-BIOGAS PLANT

By connecting the Zitta®-Systems to an existing biogas plant, thus getting a Zitta®-Biogas plant, there is a significant increase in capacity and a significant increase in biogas production. With the Zitta®-Systems the biogas plants become profitable.

ADVANTAGES WITH ZITTA®-SYSTEMS

- All digested biomass becomes commercial products
- All digested biomass stays on the biogas plant
- No necessary transportation of digested manure from the biogas plant
- Low Nitrogen content in the biomass
- Possibility of mixing new co-products in the biomass
- Low Nitrogen content in the biomass opens the possibility for higher temperatures in the digester thus better capacity use of the digesters.

ZITTA[®]-SYSTEMS



Re-N offers a close collaboration where we are responsible for all handling of the manure.

Re-N wishes to have a close collaboration with those farms who deliver the manure to the biogas plant.

Re-N's laboratory and development center continuously monitor the biogas plants process to ensure that the plant is always optimized.





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