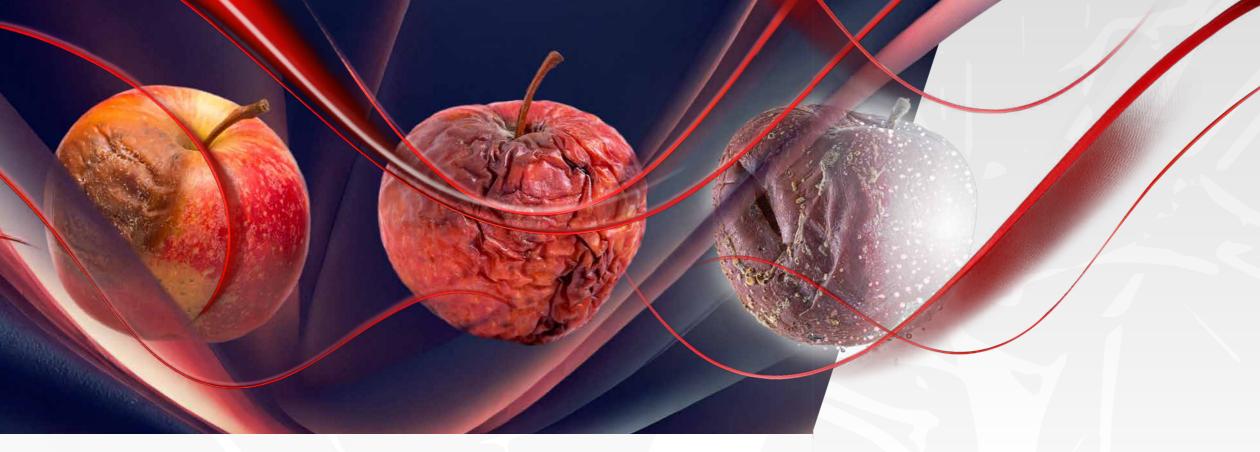
THONI ENVIRONMENTAL ENGINEERING TTV HIGH SOLIDS ANAEROBIC DIGESTION

SMART BIOGAS TECHNOLOGY

- Maximum robustness and tolerance to impurities
- Unrivalled shaft-mixer technology with high-performance
- Throughput of up to 60,000 tonnes per year with just one digester
- Process stability with maximum gas yield
- Modular, expandable system concept
- Digester sizes from 1,050 $\mathrm{m^3}$ to 3,850 $\mathrm{m^3}$



WASTE TURNS INTO ENERGY

CLOSING THE LOOP

Biogas from waste has become an integral part of the modern circular economy and the associated climate targets for energy and mobility transition.

This is exactly where we come in: The focus of Thöni plant concepts is on maximising the power and energy potential of organic waste and on returning the products obtained from anaerobic digestion to the ecological cycle.

THE THÖNI TTV DIGESTER

The centrepiece of the Thöni High Solids AD process is the TTV plug-flow digester. This is particularly suitable for dry organic waste with a high impurity content. Core components such as the walk-on, heated digester floor and the most robust and powerful paddle agitator in the anaerobic digestion industry are patented.

The TTV paddle shaft is particularly characterised by its ability to handle non-homogeneous substrates evenly and consistently. The input substrate is homogenised by the slowly rotating shaft-mixer and thus ensures a high biogas yield. The special design of the paddles prevents sedimentation and transports sediments safely to the digester outlet.

TREATMENT OF DIGESTATE

Digestate with different dry matter contents leaves the digester and can be dewatered using Thöni screw presses. This produces a highquality liquid fertiliser for agricultural use as well as a compostable solid fraction.

The solid digestate can then be processed into valuable products in Thöni compost modules.

WE ALSO OFFER SOLUTIONS FOR WASTEWATER-FREE OPERATION DESIGN AND PLANNING OF COMPLETE SYSTEMS

IN-HOUSE PRODUCTION OF KEY COMPONENTS

REALISATION, INSTALLATION AND COMMISSIONING

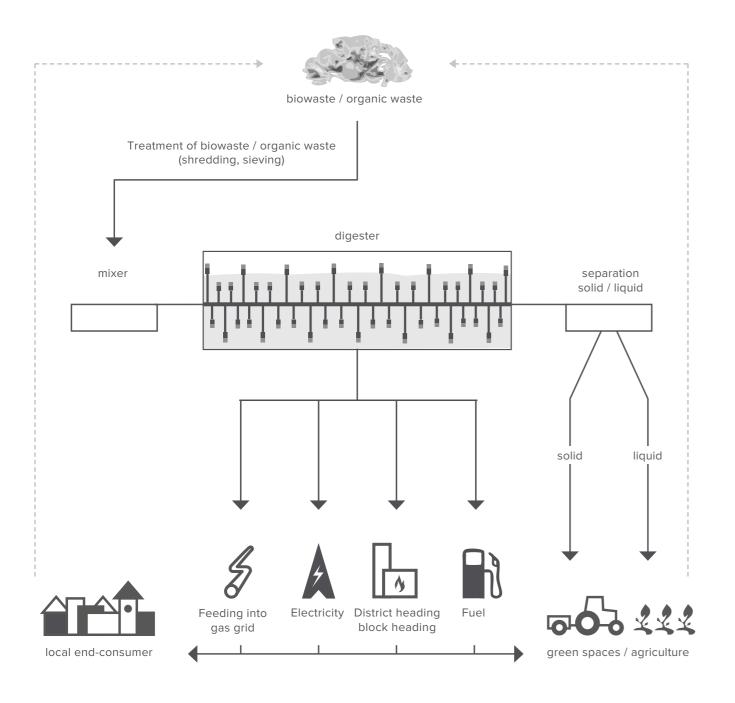
TECHNOLOGICAL EXPERTISE FOR COMPLETE SOLUTIONS

Thöni's expertise does not begin and end with anaerobic digestion: Thöni high-tech system solutions are the result of over 30 years of experience in design, planning, construction and operation. As a full-service provider, Thöni also supplies turnkey plants, from waste treatment to biogas utilisation. A highly qualified team of experts advises and supports our customers from the very beginning to the successful commissioning of the plants.



ECOLOGICAL CYCLE

Waste harbours enormous potential. Thöni Environmental Engineering utilises this and feeds clean, green, energy back into society and valuable materials back into the ecological cycle.



THÖNI ENVIRONMENTAL ENGINEERING

We have been developing, realising and operating biogas plants for over 30 years. We design innovative system solutions worldwide to utilise organic waste and renewable raw materials as a source of renewable energy. Our team advises and supports you from concept to successful commissioning of the biogas plant.



FAMILY BUSINESS

PRODUCTION OF KEY COMPONENTS IN-HOUSE



ALL-ROUND SERVICE FROM CONCEPTION TO COMMISSIONING

certifications: ISO 9001, ISO 14001







Thöni Industriebetriebe GmbH Obermarktstrasse 48 6410 Telfs / Tyrol / Austria

T. +43 5262 6903-0 office@thoeni.com

www.thoeni.com