



# Biogasplant for Biowaste



Krieg & Fischer Ingenieure GmbH



- ✓ Reduce emissions
- ✓ Produce energy from waste
- ✓ Increase profitability

## References since 2005

### HUNTSTOWN

Biogas Plant, Ireland



- # Biowaste: Anaerobic fermentation of 92,000 t/a of waste (42,000 t/a biowaste and 50,000t/a organic waste from supermarkets and restaurants)
- # Thermal pressure hydrolysis process
- # 2018/19: 4 x 4,900 m<sup>3</sup> digester

### QINHUANGDAO

Biogas Plant, China



- # Kitchen waste, pre-treatment with hydrocyclone, 1 hydrolysis tank
- # Biogas upgrading system, biomethane used as vehicle fuel
- # 2013/14: 2 x 3400 m<sup>3</sup> digester

### IM BRAHM

Biogas Plant, Germany

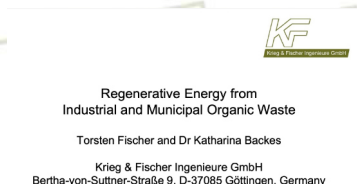


- # Food waste, Biogas plant & extensions
- # 2005: 1490 m<sup>3</sup> digester, 760 kW<sub>el</sub>
- # 2011: Additional digester & 2 CHP
- # 2013: Storage tank with gas holder roof (6,000 m<sup>3</sup>)
- # 2016: Digestate separation

## Lectures / Publications / Videos

### FISCHER, T. and Dr. K. Backes 2013 Regenerative Energy from Industrial and Municipal Organic Waste

The twenty-eight international Conference on solid waste technology and management  
Philadelphia, PA U.S.A. - March 10-13th. 2013  
([www.solid-waste.org](http://www.solid-waste.org))



- # Collection of municipal organic waste
- # Pre-treatment
- # Type of digestion
- # Contaminants of source separated municipal organic waste

### FISCHER, T., Dr. K. BACKES and KRIEG, A. 2007 Biogas production from gut contents and low value offal Ninth International Symposium „Rendering - a flexible resource“, Cairns/North Queensland, Australia 18-20th July 2007, p. 97-103



- # International Symposium Australia
- # Examples of two different biogas plants using substrates similar to slaughterhouse waste

### Video made by Krieg & Fischer Ingenieure GmbH Biogas plant tailor-made by Krieg & Fischer Ingenieure GmbH

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- # Services
- # Planning and construction of tailor-made biogas plants
- # Explanation video with managing director Torsten Fischer

## Brochure

Biogas Plants:  
Engineering • Construction  
Operation • Optimization



- # Tailor-made biogas plants
- # Independent engineering office
- # Experience with different feedstock
- # Technical details of biogas plants
- # 165 references worldwide