



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 m³ 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 m³ digester

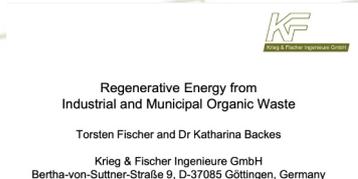
IM BRAHM
Biogas Plant, Germany



- # Food waste, Biogas plant & extensions
- # 2005: 1490 m³ digester, 760 kW_{el}
- # 2011: Additional digester & 2 CHP
- # 2013: Storage tank with gas holder roof (6,000 m³)
- # 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)



- # 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

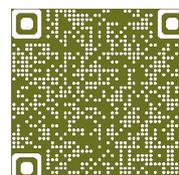
Video made by Krieg & Fischer Ingenieure GmbH
Biogas plant tailor-made by Krieg & Fischer Ingenieure GmbH



- # Services
- # Planning and construction of tailor-made biogas plants
- # Explanation video with founding member 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
- # 178 references worldwide