Biogas plant for waste

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

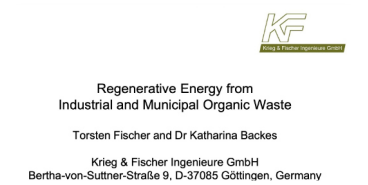
Kitchen waste, pre-treatment with hydrocyclone, 1 hydrolysis tank
Biogas upgrading system, biomethane used as vehicle fuel
2013/14: 2 x 3400 m³ digester

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)


Regenerative Energy from
Industrial and Municipal Organic Waste

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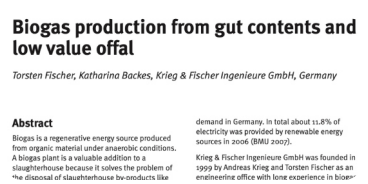
Collection of municipal organic waste
Pre-treatment
Type of digestion
Contaminants of source separated municipal organic waste

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


Biogas production from gut contents and low value offal

Torsten Fischer, Katharina Backes, Krieg & Fischer Ingenieure GmbH, Germany

Abstract

Biogas is a regenerative energy source produced from organic material under anaerobic conditions. A biogas plant is a valuable addition to a slaughterhouse because it solves the problem of the disposal of slaughterhouse by-products like

demand in Germany. In total about 11.8% of electricity was provided by renewable energy sources in 2006 (BMU 2007).

Krieg & Fischer Ingenieure GmbH was founded in 1999 by Andreas Krieg and Torsten Fischer as an engineering office with long experience in biogas

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

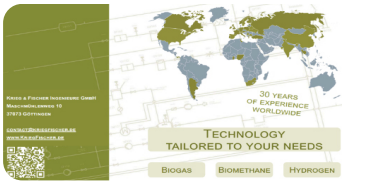
Video made by Krieg & Fischer Ingenieure GmbH
Biogas plant tailor-made by Krieg & Fischer Ingenieure GmbH

February 2019

Services
Planning and construction of tailer-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

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