



Biogasplant for

Renewable-Natural-Gas



Krieg & Fischer Ingenieure GmbH



- ✓ Produce regenerative energy
- ✓ Reduce emissions
- ✓ Increase profitability

References since 2009

SEMD

Biogas Plant, Germany



Input: Corn silage
Gas production: 3,2 Mio. m³/a biogas; injection into grid
Digester: Prestressed concrete prefabricated, element tank 2,500 m³

VIERVERLATEN

Biogas Plant, Netherlands



Input: Sugar beet pulp, sugar beet fragments, potato waste
Gas production: 16.7 Mio m³/a biogas, 10.5 Mio m³/a RNG; injection into grid
Digester: Glas coated steel tank 4 x 4,600 m³

JCBE DERBY

Biogas Plant, UK



Input: Hydrolised kitchen Cat. 2, paper & cardboard waste, straw
Gas production: 1,200 m³/h biogas, over 6 Mio. m³/a RNG
Digester: Concrete steel tank 2 x 5,300 m³

Lectures / Publications

LATINOVIC, S.; KORTE, A. and RUNGE, S. 2023
Heiligengrabe biogas plant conversion from electricity to biomethane
 in Biogas World Showcase Report, edition September 2023
 BIOGASWORLD MEDIA INC
 September 2023



- # Modernization of existing biogas plant and switch from electricity to RNG production
- # CO₂ savings by change in substrate mix
- # Biogas production 905 Nm³/h

FISCHER, T. and LATINOVIC S. 2022
Technical Challenges in Biogas/Biomethane Plants for Production of Biofuels
Advanced Biofuel Forum, Amsterdam 30.11-01.12.2022



- # Biomethane supply chains
- # Expert witness reports
- # Biogas plants common deficiencies
- # RNG plant case study
- # Education of biogas plants operators

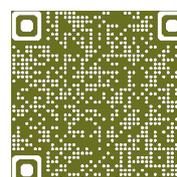
FISCHER, T. and Dr. K. BACKES 2019
The real engineering challenge when implementing biogas plants with biogas upgrading and mobility
 IBBK-Conference: "Fortschritt bei Biomethan-Mobilität", international conference with exhibition and excursion, 15.-17th October 2019, Akademie Schloss Kirchberg, Schwäbisch-Hall, Baden-Württemberg



- # RNG engineering challenge
- # Concept analysis
- # CNG fueling station
- # Relevant technical regulations
- # Hazardous areas

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