

Biogas plants for Renewable-Natural-Gas



Krieg & Fischer Ingenieure GmbH

- ☑ Produce renewable 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: 1200 m³/h biogas,
Digester: Concrete steel tank 2 x 5,300 m³

USA
Biogas Plant, USA



Input: Straw and manure
Gas production: 4,600 m³/h; thermophilic process, dewatering, mechanical high pressure straw pretreatment
Digester: Steel tank 6 x 8,000 m³ + 1 concrete tank 5,000 m³

Lectures / Publications

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



Biogas Plants
Engineering • Construction
Operation • Optimization

The sustainable and intelligent way of producing renewable energy and managing waste



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