ZORG BIOGAS

Energy with care about nature

Design, construction, and service of biogas plants

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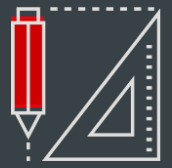
SUMMARY

Our services

related to biogas

Concept and
Initial data collection



Design,
Permissions, and
Authorizations

Construction,
Equipment supply,
and Installation

Start up
Service

Zorg Biogas is a biogas plant construction firm with offices in Munich, Zurich.

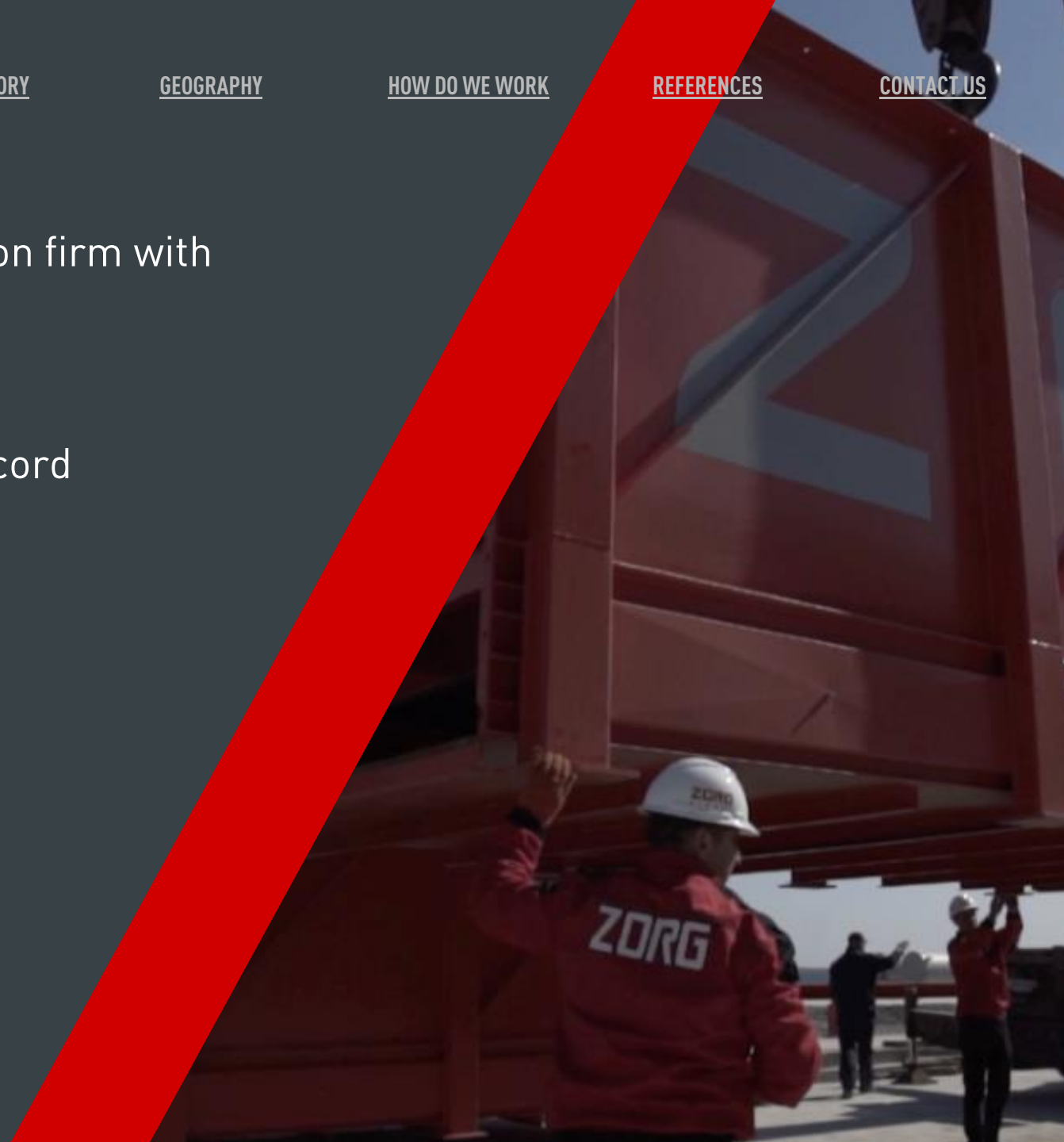
26 MW electrical power production record

17 years of experience

12 countries

28 million EUR

30 personnel



Key personalities

Dr. Alex Golod (70)
General Director

- Doctor of Science in Chemical Technology
- Worked in research and production at enterprises processing organic waste
- Responsible for procurement

History

15 years of experience and nonstop progress

2007

Founded by two engineers

2008

The 1st biogas plant (635 kW) was constructed at a cattle ranch in Velikiy Krupil, Ukraine

2010

Geographic expansion to Turkey, Latvia, and Kazakhstan

2013

Revenue hits 2.5 M euro. 15 staff, geographic expansion, and solutions development

History

2018

New high-load reactor technology.
Revenues 21 M euro.
56 staff.

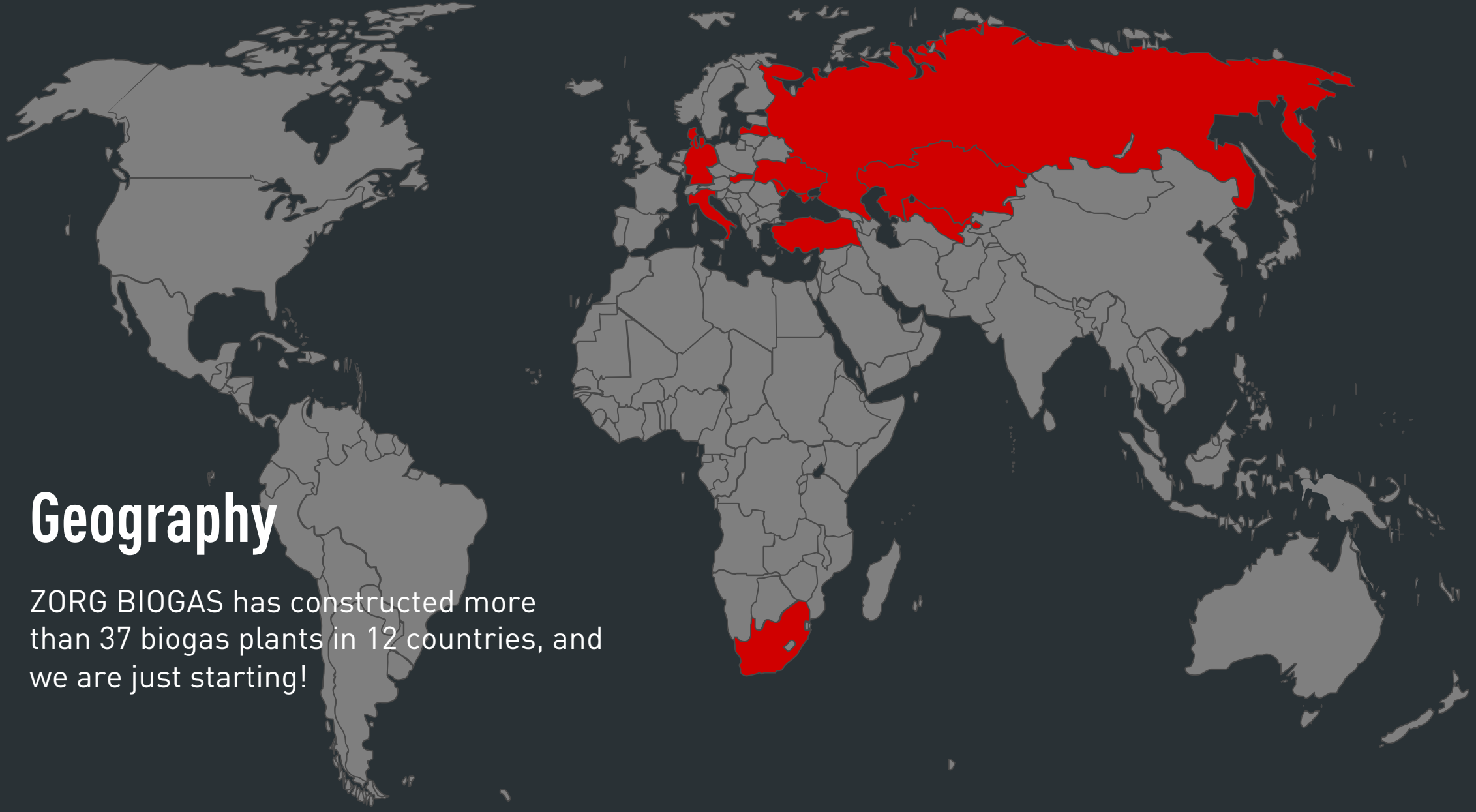
2019

The biggest biogas plant in Eastern Europe (26 MW) put into operation.
Implementation of straw pretreatment for biogas

2020

Zorg Biogas continues geographic expansion with 2MW project in Russia.

Zorg Biogas has designed more than100 plants in 18 countries.



Geography

ZORG BIOGAS has constructed more than 37 biogas plants in 12 countries, and we are just starting!

The biggest plant in the world

Teofipol

26 MW el

Korsun, 7.5 MW

Korsun-Shevchenkivskyi, 2019

Raw materials: sugar beet pulp 400 tonnes/day

Steel digester **technology**

Tank volumes: 3x8,200 m^3 + 1x4,000 m^3

Rokytne, 2.4 MW

Rokytne, Ukraine 2015

Raw materials: sugar beet pulp 250 tonnes/day + cow manure 100 tonnes/day

CSTR classic **technology**

Tank volumes: 4x3,600 m^3

Teofipol-1, Teofipol-2

15.6 MW

Teofipol-1, 2017

CSTR technology

4 digestors x 3,800 m^3 + 2 post-digestors x 3,800 m^3

Raw materials: pressed sugar beet pulp and cow manure

CHP GE Jenbacher 3 x 1.2 MW + 1.5 MW, total = 5.1 MW

Teofipol-2, 2018

High-load technology

4 digestors x 3,200 m^3 + 2 post-digestors 5,000 m^3

Raw materials: maize silage

CHP GE Jenbacher 7 x 1.5 MW, total =10.5 MW

Voroshnewo, 2 MW

2021

Raw materials: sewage sludge 100 tonnes + dung 50 tonnes + slaughterhouse waste 20 tonnes daily

CSTR classic **technology**

Tank volumes: 4 x 3600 m3

Gorodishche, 2.4 MW

Gorodishche-Pustovarivske, 2019

Raw materials: sugar beet pulp 355 tonnes/day

CSTR (2 stage) **technology**

Tank volumes: 2x3,800 m^3 + 1x3,800 m^3

Okny, 1.2 MW

Okny, 2018

Raw materials: maize silage
CSTR (2 stage) **technology**
Tank volumes: 1x3,800 + 1x3,800

Linovitsa, 2.4 MW

Linovitsa, 2018

CSTR (2 stage) technology

Raw materials: sugar beet pulp 415 tonnes/day, roots 10 tonnes/day, manure 50 tonnes/day

Tank volumes: 2x4,200 m^3 + 1x4,200 m^3

Zhuravka, 1.2 MW

Zhuravka, 2018

CSTR (2 stage) technology

Raw materials: pig slurry 137 tonnes/day + maize silage 57 tonnes/day

Tank volumes: 1x3,800 m^3 +1x3,800 m^3

Karaganda, 1 MW

Karaganda, Kazakhstan 2018

Raw materials: poultry dung (100 tonnes/day 75% wet + 100 tonnes/day 95% wet)

CSTR classic **technology**

Tank volumes: 2x3,600 m^3

Cimisheny, 637 KW

Cimisheny, Moldova 2018

Raw materials: pig slurry 250 tonnes/day + slaughterhouse waste 10 tonnes/day

CSTR classic **technology**

Tank volume: 1x4,200 m^3

Tirnovo, 637 KW

Tirnovo, Moldova 2018

Raw materials: poultry dung 30 tonnes/day + maize silage 10 tonnes/day

CSTR classic **technology**

Tank volume: 1x3,600 m^3

Tartltonne, 1 MW

Tartltonne, Gauteng South Africa 2015
Rugani Carrots factory

CSTR classic **technology**
Raw materials: carrot and pumpkin pulp
Tank volumes: 2x4000 m^3

Hincesti, 1.063 MW

Hincesti, Moldova 2013

Raw materials: distillery molasses wastewater 180 tonnes/day
+ cow manure 20 tonnes/day
CSTR classic **technology**
Tank volumes: 2x2,400 m^3

Pidhorodne, 125 KW

Pidhorodne, Ukraine 2013

Raw materials: pig slurry 40 tonnes/day

CSTR classic **technology**

Tank volume: 1x2,400 m^3

Kamenica nad Cirochou, 1.2 MW

Kamenica nad Cirochou, Slovakia 2012

CSTR classic technology

Raw materials: maize silage 50 tonnes/day + pig manure 11 tonnes/day

Tank volumes: 2x2,900 m^3

Citta di Castello, 999 KW

Citta di Castello, Italy 2012

CSTR (2 stage) technology
biogas CHP Jenbacher for tobacco factory

Osimo, 999 KW

Osimo, Italy 2011

CSTR classic technology

Raw materials: maize silage 40 tonnes/day + chicken dung 40 tonnes/day

Tank volumes: 3x2,400 m^3

Vircava, 600 KW

Vircava, Latvia 2011

CSTR (2 stage) **technology**

Raw materials: maize silage 30 tonnes/day

Tank volumes: 1x2,400 m^3 +1x1,400 m^3

Cicedagi, 250 KW

Cicedagi, Turkey 2009

Raw materials: cattle manure 50 tonnes/day + maize silage 3 tonnes/day

CSTR classic **technology**

Tank volume: 1x2,400 m^3

Karasu, 250 KW

Karasu, Kazakhstan 2009

Raw materials: manure 44 tonnes/day + grain waste 1 tonne/day

CSTR classic **technology**

Tank volumes: 2x2,400 m^3

Voznesensk, 125 KW

Voznesensk, Ukraine 2009

Raw materials: maize silage 10 tonnes/day

CSTR classic **technology**

Tank volume: 1x1,200 m^3

Velikiy Krupil, 635 KW

Velikiy Krupil, Ukraine 2008

Raw materials: cattle manure slurry 400 tonnes/day

CSTR classic **technology**

Tank volumes: 3 x 2,400 m^3

We are ready to answer your questions

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