A child with curly hair, seen from behind, wearing a red knitted sweater, stands in a lush green field with yellow wildflowers. The child's arms are raised in the air, reaching towards a cloudy sky. The background shows rolling green hills under a soft, overcast light.

We Care for a Better Future.



Combined Heat & Power. Efficient and Reliable Energy Supply



Introduction.



Johannes Gausling

Sales International

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Agenda

1. Introduction
2. What is CHP?
3. Product Portfolio
4. CHP as a Multitool
5. Case Studies



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Key Datas 2G.

- Founded 1995 - Headquarters in Heek in North West of Germany
- Solution provider: development, project engineering, production, service, financing
- plants for biogas and natural gas applications
20 – 4,400 kW electrical power
- Strong focus on R&D
- 10 national and international subsidiaries
- Since 2007 listed at the German stock market
- 650 employees
- >6,000 CHP plants in more than 50 countries worldwide





Shmerling-Synchro

- Local Powerful Partner
- Trained technicians
- Service fleet all over Israel
- Pavilion Herods – Booth 4

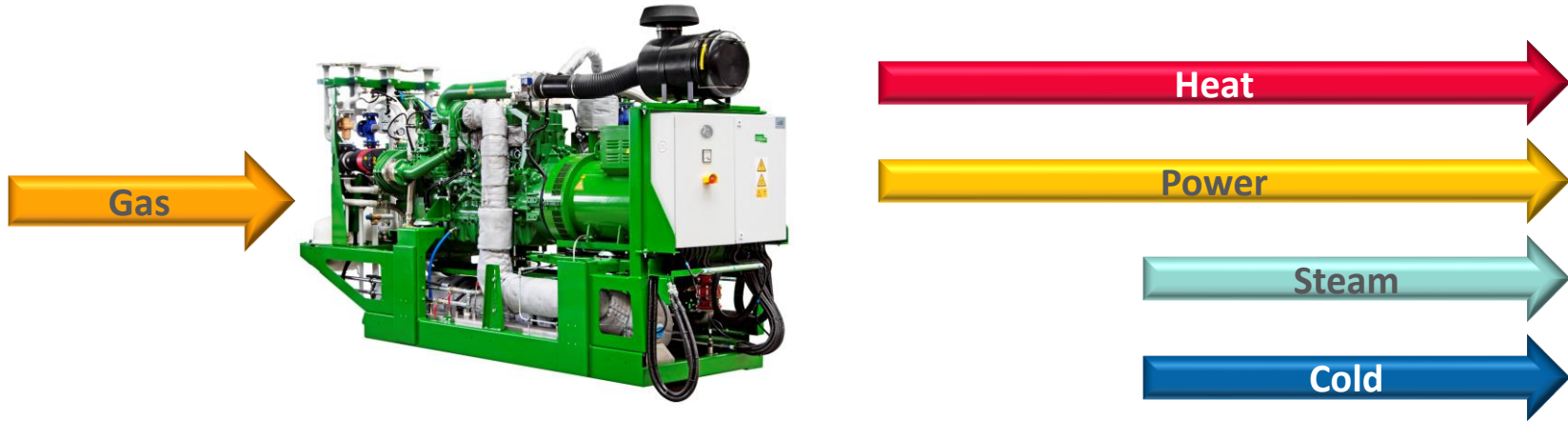




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Functionality of a Combined Heat and Power Plant (CHP).



Technical advantages CHP:

- The heat of the combustion process can be used (more than 90% total efficiency)
- Decentral and highly flexible
- Reliable System (Security of Supply)

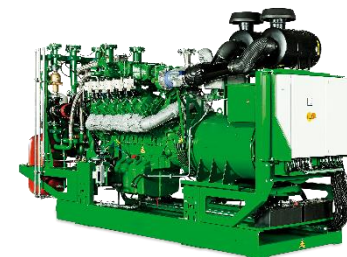


Agenda

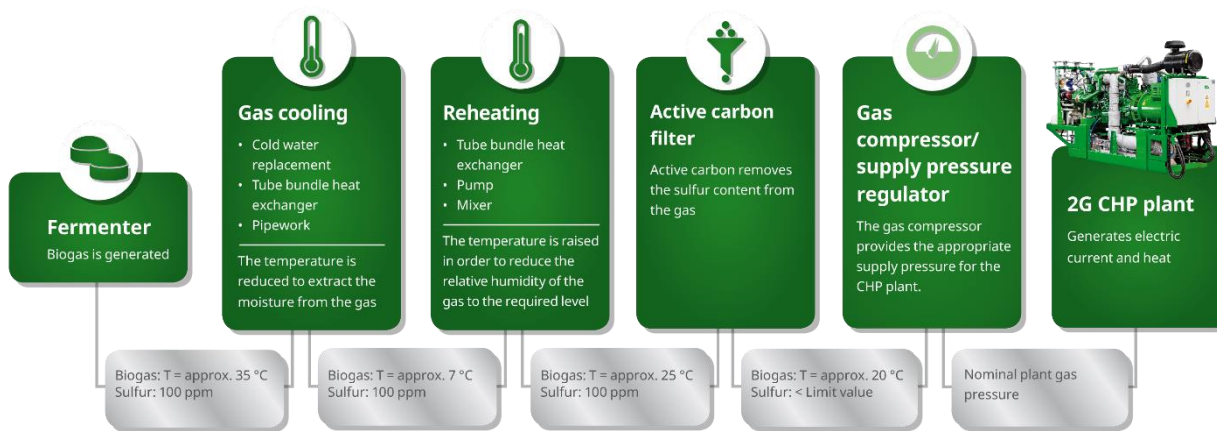
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Portfolio.

Product Group	Power Range	Type of fuel
g-box	20 to 50 kW	Natural Gas / Liquid Gas
aura	100 to 150 kW	Natural Gas
patruus	50 to 263 kW	Natural Gas / Biogas
agenitor	80 to 450 kW	Natural Gas / Biogas
avus	400 to 4,4000 kW	Natural Gas / Biogas



Additional Equipment.





Specialized in container solutions.



Unique Selling Points.

Broad Product portfolio:
20 – 4,400 kW

R&D for gas engines with
max. efficiency

Solution Provider

National / international
Service network

Project management





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Fields of application.



Schools and universities



Food



Industrial companies



Sewage plants



Hospitals



Retirement homes



Hotels



Landfills



Residential buildings



Swimming pools



Heating grids



Biogas plants

Customer tailored solutions – application example dairy.



Cold

Heat

Steam

Electricity



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Georg Utz GmbH.




Field of use:	Industry
Location:	Schüttorf Germany
CHP type:	avus 2000a
Gas type:	Natural Gas
Electrical output:	2.000 kW
Thermal output:	1.977 kW
Installation:	Existing Building
Accessories:	Absorption Chiller, Steam generator

11.05.2019

2G. Cogeneration

18



Field of use:	Industry
Location:	Alpen Germany
CHP type:	2x avus 800b
Gas type:	Natural Gas
Electrical output:	2x 889 kW
Thermal output:	2x 891 kW
Installation:	Concrete Sound Enclosure
Accessories:	Absorption Chiller

albi GmbH & Co. KG.



Bosch Energy an Building Solutions GmbH.



BOSCH



Field of use:	Food industry
Location:	Berghülen Germany
CHP type:	2 x agenitor 406
Gas type:	Natural Gas
Electrical output:	2 x 250 kW
Thermal output:	2 x 264 kW
Installation:	Concrete enclosure & Container
Accessories:	Steam generator & Absorption Chiller

H. & E. Reinert Westfälische Privat-Fleischerei GmbH



Field of use:	Food industry
Location:	Versmold Deutschland
CHP type:	avus 1500b
Gas type:	Natural Gas
Electrical output:	1.487 kW
Thermal output:	1.484 kW
Installation:	Container & Container High Line
Accessories:	Steam generator

Field of use:

Location:

CHP type:

Gas type:

Electrical output:

Thermal output:

Installation:

Accessories:

Food Industry

Leezen | Germany

avus 1500b

Natural Gas

1.487 kW

1.484 kW

Container

Absorption Chiller,
Steam Generator



Merck KGaA.



Field of use:

Chemical and pharmaceutical industry

Location:

Darmstadt | Germany

CHP type:

2 x avus 1500c

Gas type:

Natural gas

Electrical output:

2x 1,560 kW

Thermal output:

2x 1,586 kW

Installation:

Engine room

11.11.2019

2G Cogeneration



Thank you very much for your attention!



2G Energy AG

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