

INDUSTRIAL STRATEGY CONSULTING

Partners who successfully lead to the set goal

go&management

go&biogas

ABOUT THE COMPANY



COMPREHENSIVE MANAGEMENT OF THE HIGH-BUDGET INVESTMENT PROJECTS

go&management

Establishment of go&management was designed for professional creation of complex-investments project management processes.

We act as **advisory body** for the decision-making individuals in overall projects execution at all stages of their progression. Our staff consists of **high-class specialists** in the field of management and technology, holding EMBA and Ph.D. degrees.

Together, we have successfully completed projects with a total value exceeding 1 billion EUR in the **refining, petrochemical, chemical and energy industries**.

go&biogas

In response to the market needs and legislative changes, we established go&biogas.

At go&biogas, we offer a support in the **implementation of the biogas plant investment projects (bioCH₄/bioLNG/bioCNG/ bioH₂)** at all stages. In cooperation with trusted technology suppliers, we provide the highest quality services with attention to each detail.

We believe that the key to the investment success is a **precise preparing of the feasibility study** in terms of location, substrates and profitability. Nevertheless, we offer also the possibility of cooperation in the field of **project implementation up to the commissioning and start-up**.

We are a member of many industry associations



OUR EXPERIENCE AND INDUSTRY KNOWLEDGE

Founder and CEO
go&management i go&biogas
Andreas Golombek



Engineering&Construction expert in the petrochemical, refining and energy industries, effectively supporting decision-making units in the implementation of high-budget investments. In his career, he acted as a **member of the management team** in international concerns, including LURGI A.G, CIECH S.A., Air Liquide Global E&C Solution

Poland S.A. Currently, Chairman of the Supervisory Board of UNIMOT S.A. Thanks to leadership and negotiation skills, he **effectively leads the client to the set goal.**

Board Member
go&biogas
Tomasz Bukowski



Energy and gaseous fuels expert with over twenty years of experience. In his career, he **held key positions** in leading national companies of the energy sector, including **Lotos S.A., PGNiG**, and to this day he has been conducting business and management consulting activities. Using his deep market knowledge as well as managing and inter-

personal skills, he successfully **creates and implements ambitious business strategies** and sets trends in the development of the energy industry.

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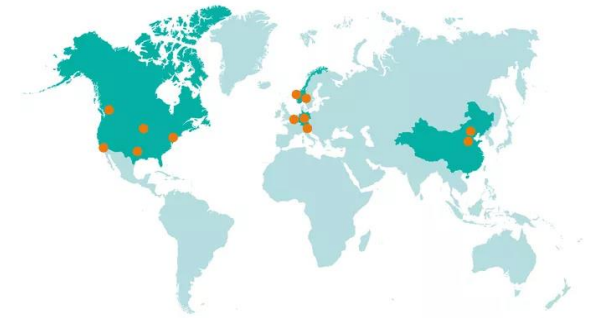
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OUR PARTNERS





Hexagon Purus is an international group with design offices and production centres in Europe, Asia and North America.



Hexagon Purus provides technical solutions for the storage and logistics of high-pressure hydrogen for land transport (LDVs, HDVs, trains), marine, aircraft, as well as the wide-ranging industry (stationary storage, transport containers, refuelling systems).

Rozwiązania mobilne



Compressed hydrogen storage cylinders



Liquid hydrogen storage cylinder



Hydrogen storage tanks for vehicles



Battery systems

Infrastruktura



Stationary storage



Bundles



Refueling systems



Distribution systems



Thyssenkrupp Uhde is the leading partner in the field of **design, construction, commissioning and service of plants and systems** for almost all industries with over 40 years of experience. In close cooperation with the client, TKIS provides specifically designed services, setting standards of quality and efficiency, while caring for the environment. The company portfolio includes over 2,500 projects worldwide, especially in the **chemical and petrochemical industries**.

COMPREHENSIVE RANGE OF SERVICES

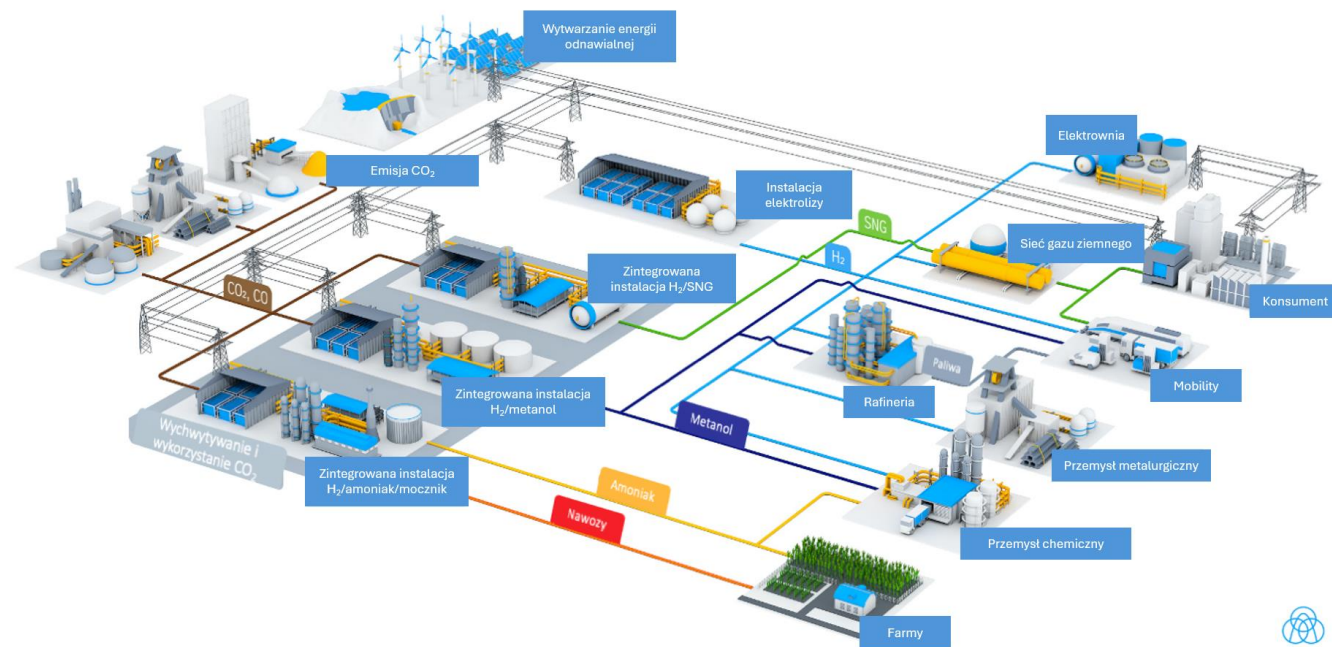
- ✓ Operations of industrial plants optimizing
- ✓ Process energy efficiency evaluation / improvement
- ✓ Emission assessment for existing and newly created plants
- ✓ Water consumption analysis
- ✓ Economic analysis
- ✓ Pollution and land reclamation analysis
- ✓ Greenhouse gases emissions analysis



Thyssenkrupp Uhde provides the innovative solutions for the climate protection. The company specializes in converting renewable energy into "green" chemicals, including especially hydrogen, methanol, ammonia and methane.

You can't copy the experience:

- ✓ #1 supplier of the electrolyzers producing hydrogen (48% market share)
- ✓ 600 electrochemical plants worldwide
- ✓ Over 10 GW of the power installed





Kanzler Verfahrenstechnik GmbH (KVT) is an international, process engineering, family-owned company established 1990s in Graz (Austria). KVT offers a full range service from the first concept to a turnkey industry plant. The mission of KVT is to develop, design and implement innovative solutions in order to achieve lasting economic and ecological benefits. The proposed engineering services focus on maximizing economic efficiency within the confines of sustainability, environmental protection and responsible use of resources.

PRODUCTION TECHNOLOGIES

Biogenic glycerin
Epichlorohydrin
Epoxy resins

TREATMENT TECHNOLOGIES

Brine
Waste gases bearing sulfur compounds
Waste gases bearing VOC
Industrial and municipal sewage
Wastes incineration

SYSTEMS

Wet electrostatic precipitators
Platinum catalyst
Hot gas filter



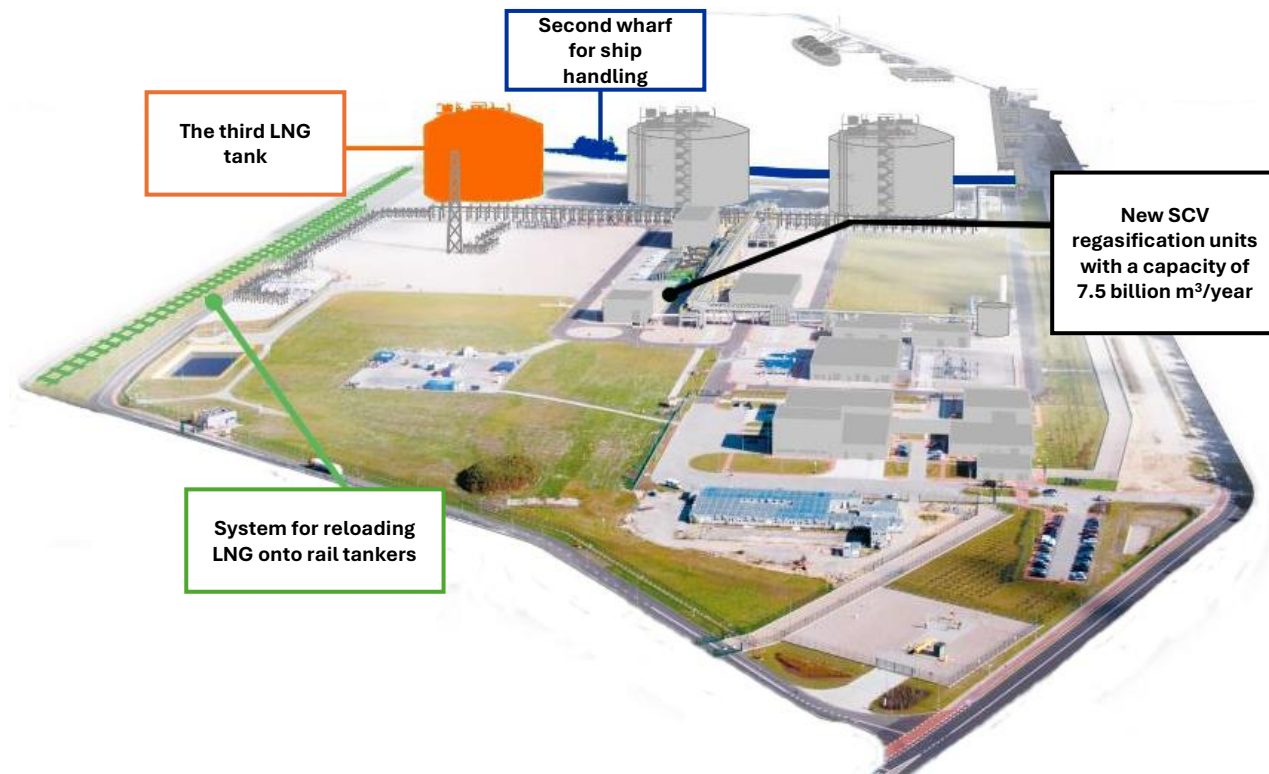
Glaconchemie is a German subsidiary of KVT located in Merseburg. Company's core business is **production of glycerin from technical to pharmaceutical and cosher quality**. Additionally, Glaconchemie is constantly developing innovative **glycerin-derivatives** as an alternative to petrochemicals. The portfolio of Glaconchemie includes a number of plant-based products manufactured with special care for the environment and process economy.

PRODUCTS - „GREEN” GLYCERIN DERIVATIVES





TGE has experience of **40 years in its field of business** from the initial concept / feasibility study to the turn-key lumpsum execution of complete projects as the main partner for the customers. TGE target is to provide to their customer the knowledge of „millions of m³” executed **liquefied gas storage** and to be added value to the projects of customer.





EnviTec Biogas is a **full-service biogas provider** who covers the entire value chain for the production and processing of biogas. European market leader with the highest installed capacity in the biogas sector - over 710 modules worldwide with an **installed capacity of > 514 MW**.

Since July 2007 listed on the Frankfurt Stock Exchange.

EnviThan - a proprietary gas treatment solution:

- ✓ Designed and assembled in **EnviTec Biogas AG factory in Saerbeck (Germany)**
- ✓ Containerized system up to 53-foot container
- ✓ **Scaleable plant size.** Reference sizes between 100 Nm³/h and 2000 Nm³/h of biogas input (sizes for single container)
- ✓ Continuous process analysis and assessment allows to **ensure constant gas quality**
- ✓ Possibility of obtaining food-grade CO₂
- ✓ **Membrane based technology**, patented Evonik 3-stage upgrading method (**methane yields over 99%**)

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REFERENCES



OUR EXPERIENCE IN HIGH-BUDGET PROJECTS REALISATION

Expansion of the Gas Terminal in Świnoujście

Investor: Polskie LNG
Location: Świnoujście, Polska
Year: 2020
Investment value: 1.9 billion PLN



Construction and commissioning of a salt factory

Investor: Ciech Soda Deutschland
Location: Staßfurt, Niemcy
Year: 2020
Investment value: 150 mln EUR



ssLNG terminal - feasibility study

Investor: Grupa Lotos
Location: Gdańsk, Poland
Year: 2020
Investment value: 300 mln PLN



EFRA - Effective Refining

Investor : Grupa Lotos
Location: Gdańsk, Polska
Year: 2015
Investment value: 2.3 billion PLN



Polimery Police - propane dehydrogenation plant

Investor: Grupa Azoty
Location: Police, Polska
Year: 2019
Investment value: 1.5 billion EUR



Construction of a docking station for LNG cryogenic tank containers

Investor: Remontowa LNG
Location: Gdańsk, Poland
Year: 2020
Investment value: 20 mln PLN



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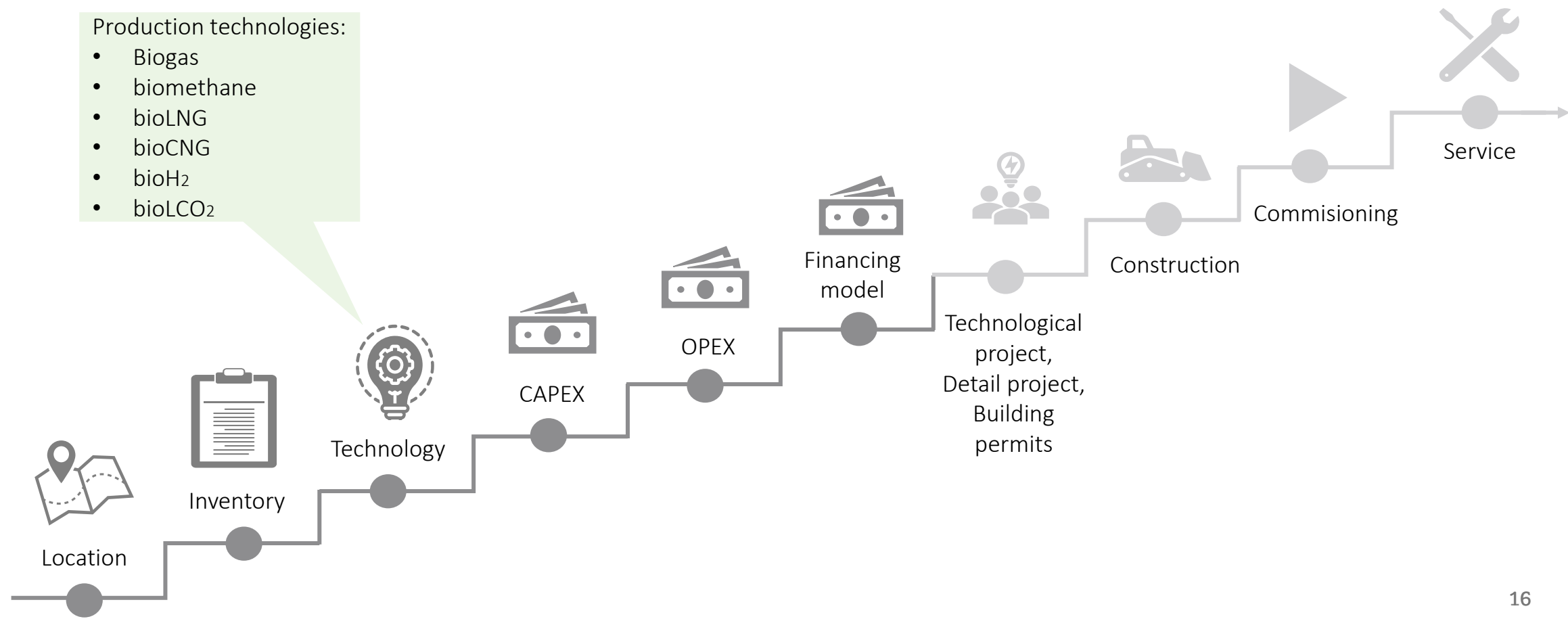
SUPPORT FOR BIOGAS INVESTMENTS



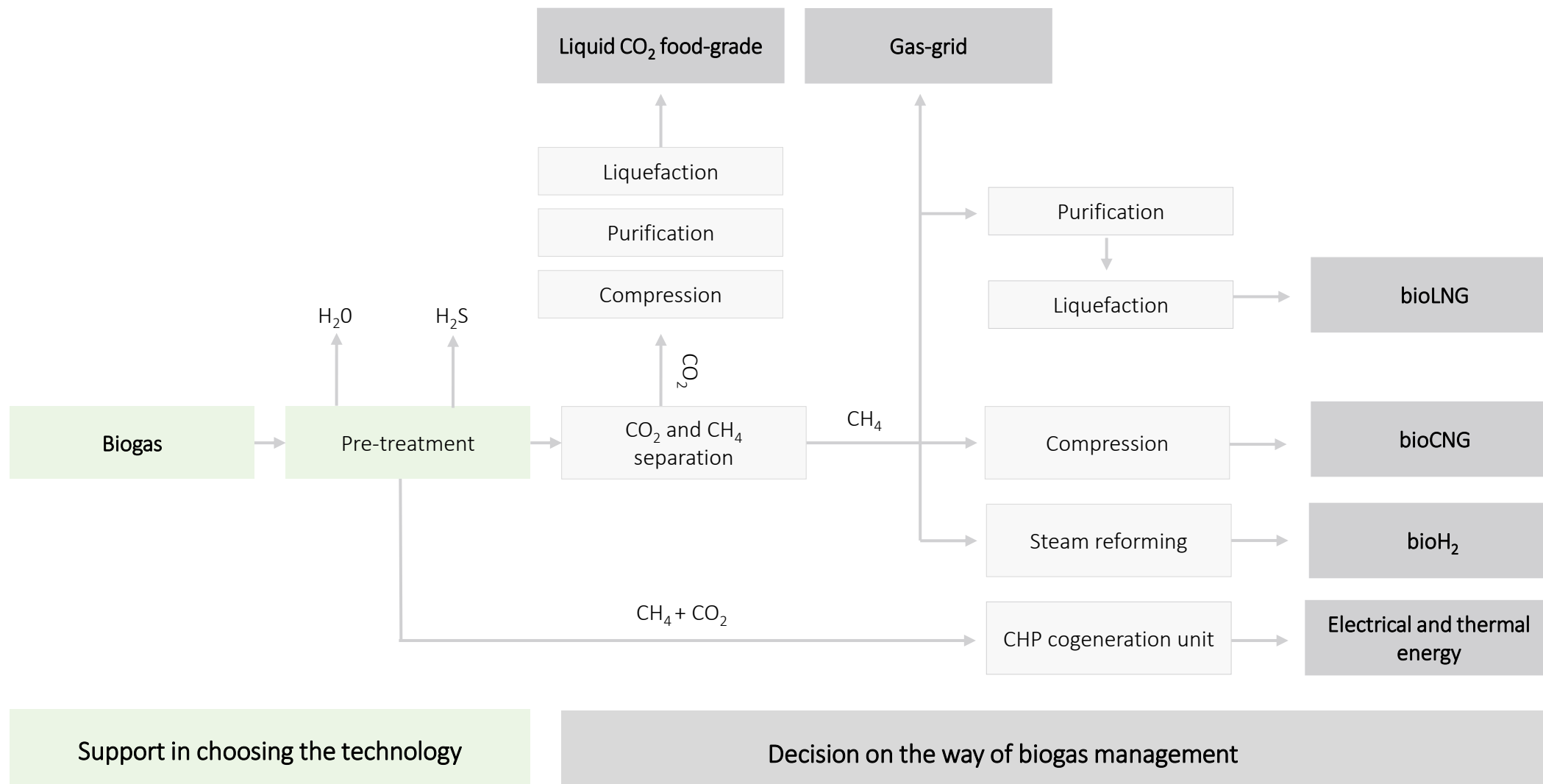
SCOPE OF SERVICES



- Production technologies:
- Biogas
 - biomethane
 - bioLNG
 - bioCNG
 - bioH₂
 - bioLCO₂



TARGET MODEL OPTIONS





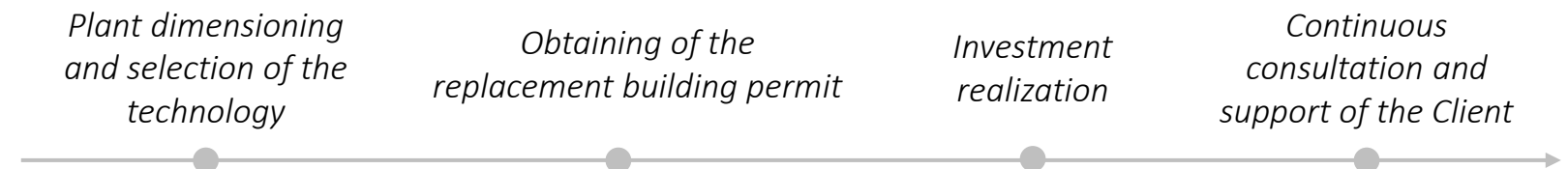
ONGOING PROJECTS

Agricultural biogas plant 1 MW

The project involves the **construction of an agricultural biogas plant 1 MW** operating in the combined production of electricity and heat (CHP).

Substrates	Amount	Products	Amount
Cattle manure	1 100 t/a	Biogas annually	2 mln m ³ /a
Waste from agri-food production	3 650 t/a	Electrical energy	499 kW
Maize silage	6 300 t/a	Thermal energy	518 kW

Scope of the project:





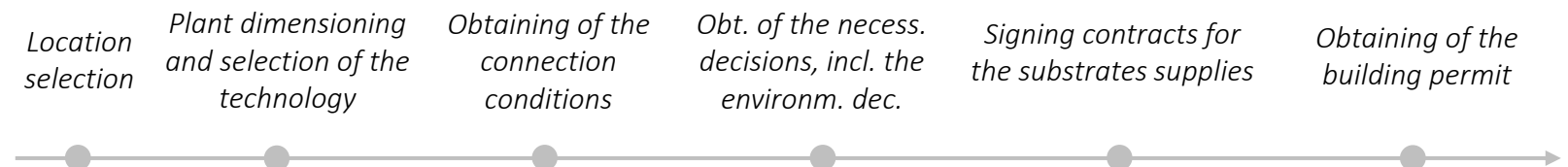
ONGOING PROJECTS

Biomethane plant 2 - 3 MW with bioLNG liquefaction possibility

The project involves the **construction of a 2 MW biomethane plant** with a potential **extension up to 3 MW**. Two possibilities of gas utilization are assumed, i.e. **upgrading to biomethane or liquefaction into bioLNG**.

Substrates	Amount		Products	Amount	
Maize silage	9 000	t/a	Biogas annually	7.9 mln	m ³ /a
Chicken dung	27 000	t/a	Biogas hourly	900	m ³ /a
Pig slurry	24 000	t/a	Biomethane	478	m ³ /a
Milk sludge	10 000	t/a			

Scope of the project:





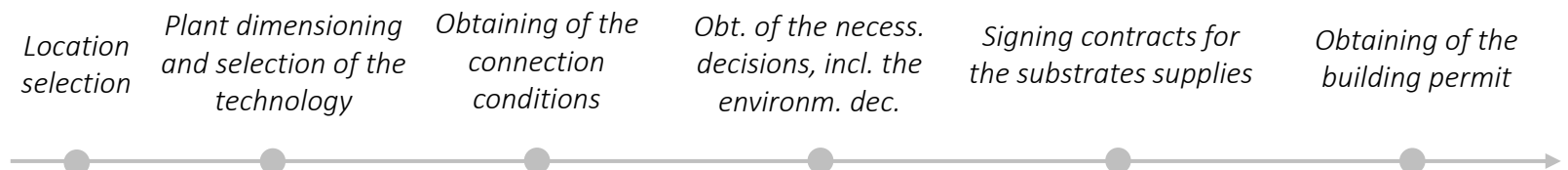
ONGOING PROJECTS

Biomethane plant 5,5 MW with bioLNG liquefaction possibility

The project involves the construction of a 5,5 MW biomethane plant. Two possibilities of gas utilization are assumed, i.e. upgrading to biomethane or liquefaction into bioLNG.

Substrates	Amount	Products	Amount
Maize silage	30 000 t/a	Biogas annually	26 mln m ³ /a
Chicken dung	130 000 t/a	Biogaz hourly	4 400 m ³ /h
Beet pulp	20 000 t/a	Biomethane	1 300 m ³ /h

Scope of the project:



Thank you!

Please feel free to contact us

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