



Secure a sustainable
and profitable future
with a single handshake.
That's RNG done right.

AB is your one-stop shop and partner that ensures you see all the benefits of your RNG production.

AT THE HEART OF THE SYSTEM IS **BIOCH4NGE®**, THE SOLUTION FOR BIOGAS-TO-RNG UPGRADING USING HIGH-QUALITY MEMBRANES

BIOCH4NGE® purifies and pre-treats the biogas coming from your anaerobic digester. The dehumidified and conditioned gas is compressed, cooled and filtered to remove various pollutants. This purified gas can now be sent through multi-stage membranes to separate the methane and the carbon dioxide, providing clean, environmentally friendly RNG.

The plant can be further complemented by a series of pre- and post treatment options - from H₂S or NH₃ bulk removal, through booster compressors for grid injection or virtual pipelines. Ancillary options, such as TOx or RTOs can also be provided for the treatment of any waste gas.

OPTION: LIQUEFACTION SYSTEM

CH4LNG LIQUEFACTION PRODUCES A BIOLNG IMMEDIATELY AVAILABLE AND SUITABLE FOR ON-ROAD TRANSPORT.

CH4LNG is our solution to further upgrade your RNG right at site and provide BioLNG ready for filling. Designed to be installed downstream of BIOCH4NGE®, CH4LNG is based on a fully integrated cryogenic process. It's divided into three phases: treatment, liquefaction and storage. In the first phase, our TSA (temperature swing adsorber) removes even more CO₂ from the RNG, achieving a methane content suited for liquefaction. By progressively decreasing the temperature, the RNG is liquefied over several cooling stages, and is then sent to a transfer tank. This is where the desired pressure and temperature conditions of the final BioLNG are established, and the BioLNG can be transferred to a holding and filling tank.

ECOMAX® COGENERATION SOLUTIONS CAN POWER IT ALL.

ECOMAX® cogeneration plants, in combination with BIOCH4NGE®, can create a complete energy system. ECOMAX® produces electrical and thermal energy from a flexible fuel source, using either biogas, natural gas, or any combination. This can power the entire plant efficiently and sustainably, as well as offer flexible options in future clean energy outputs. AB can provide the complete power supply system for electrical utility connections, including medium-low voltage transformers, medium voltage switchboards and switchgear, and low-voltage power distribution.

THE WIDE RANGE OF BIOCH4NGE®

BIOCH4NGE® is designed for a broad range of applications and sizes. We offer standardized solutions ranging from 340 to 1,500 Nm3/h (200 to 883 scfm), all containerized and modular for ease-of-installation. Pre- and post treatment solutions can be integrated within existing biogas plants, as well as with options such as CH4LNG or CO₂ recovery. Customized solutions further enhance our portfolio, extending the range, further improving efficiencies, or addressing individual site requirements.

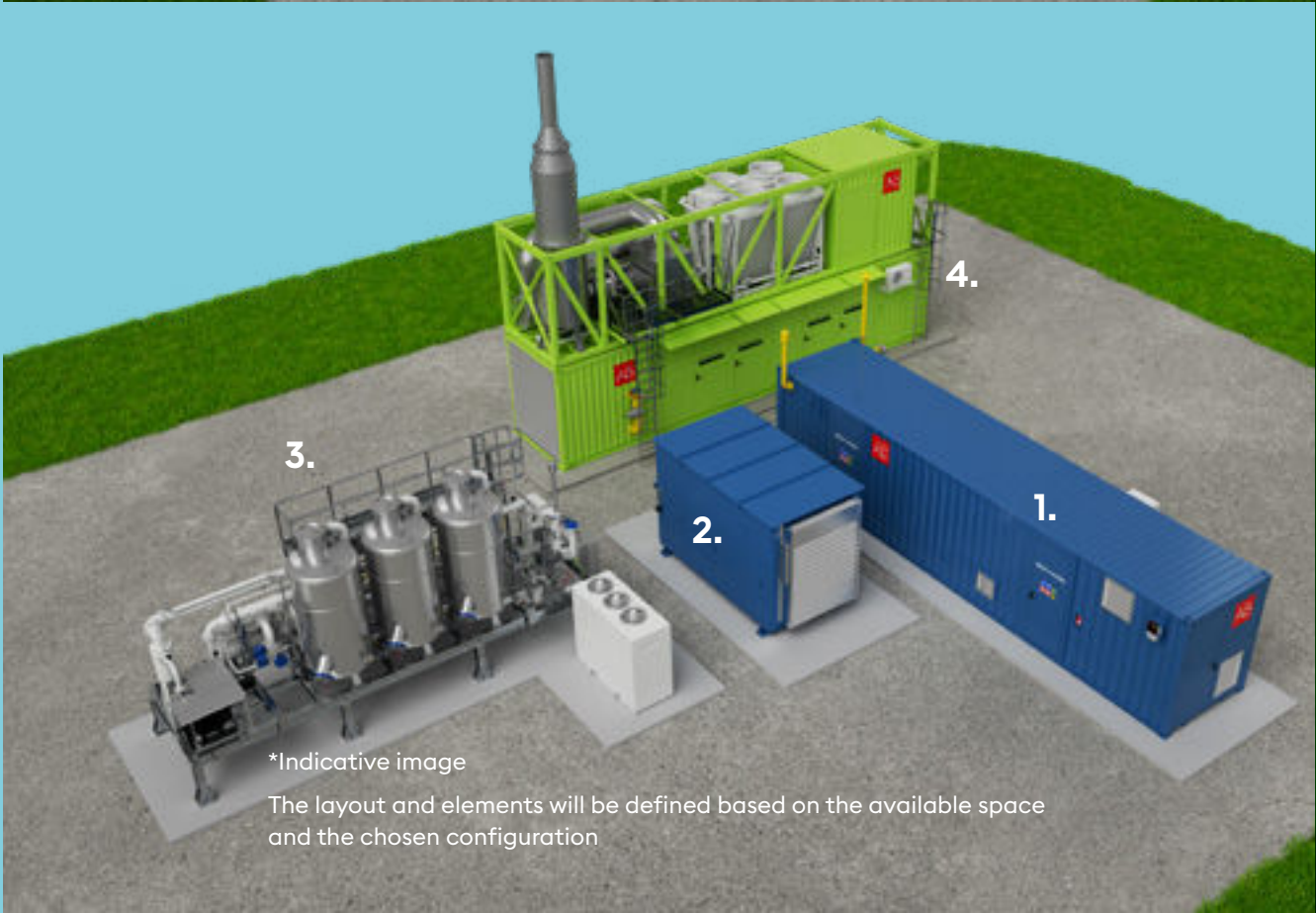


LEGEND

- 1. MEMBRANES UPGRADING ENCLOSURE
- 2. BIOGAS COMPRESSION SYSTEM
- 3. BIOGAS TREATMENT ENCLOSURE
- 4. COGENERATOR

VISIT THE BIOMETHANE-RNG CHANNEL, the only online video portal expressly dedicated to the world of RNG.

→ biomethanerngchannel.com



*Indicative image
The layout and elements will be defined based on the available space and the chosen configuration

COMPRESSED RNG

Every company and project in the agricultural and livestock sector is unique, and AB understands this.

We provide each endeavour with tailor-made services that guarantee your plant's longevity and optimal performance over time. AB Service provides assistance and maintenance to keep plants running: we have over 300 specialists operating all over the world, ready to act 24 hours a day, 365 days a year. The operational availability approaches 100%, with only a few hours of downtime required for maintenance cycles.

Feasibility Study and optimal solution selection

Expert advice on legislation and incentives

Assistance right from the permitting phase

Plant design and production

Installation and system start-up

24/7/365 call centre and expert service & maintenance

Spare parts always on-hand, locally and globally

Beneficial financing options

Some of our references



AB has you covered!
Depend on our
ONE-STOP SHOP
options to reliably
produce RNG.
ABetter Way!

WATCH
THE VIDEO ►



gruppooab.com