

Advanced solutions
for biomethane



Who are we

- Since 1998, Regas has been the reference partner of the main utilities in the energy sector, for the supply of products and services dedicated to plants, natural gas transmission, distribution and use systems
- EPC specialized in gas treatment systems and systems
- Patented and advanced technologies for gas odorization
- Patented devices for the management and efficiency of gas preheating
- Innovative systems for online gas analysis and real-time data management



Certificates

- ISO 9001
- ISO 14001
- ISO 45001
- Manufacturer of ATEX and PED sets
- ADR and RD 147/27 qualifications for transport and handling of odorants

Highlights

- Qualified supplier of the main players in the natural gas transportation and distribution sector
- 3500+ reduction, measurement and analysis stations
- Over 1600 active automatic odorization systems
- Arkema odorant dispenser since 2000
- Constantly growing turnover and a range of highly technological products in continuous evolution

Affiliation

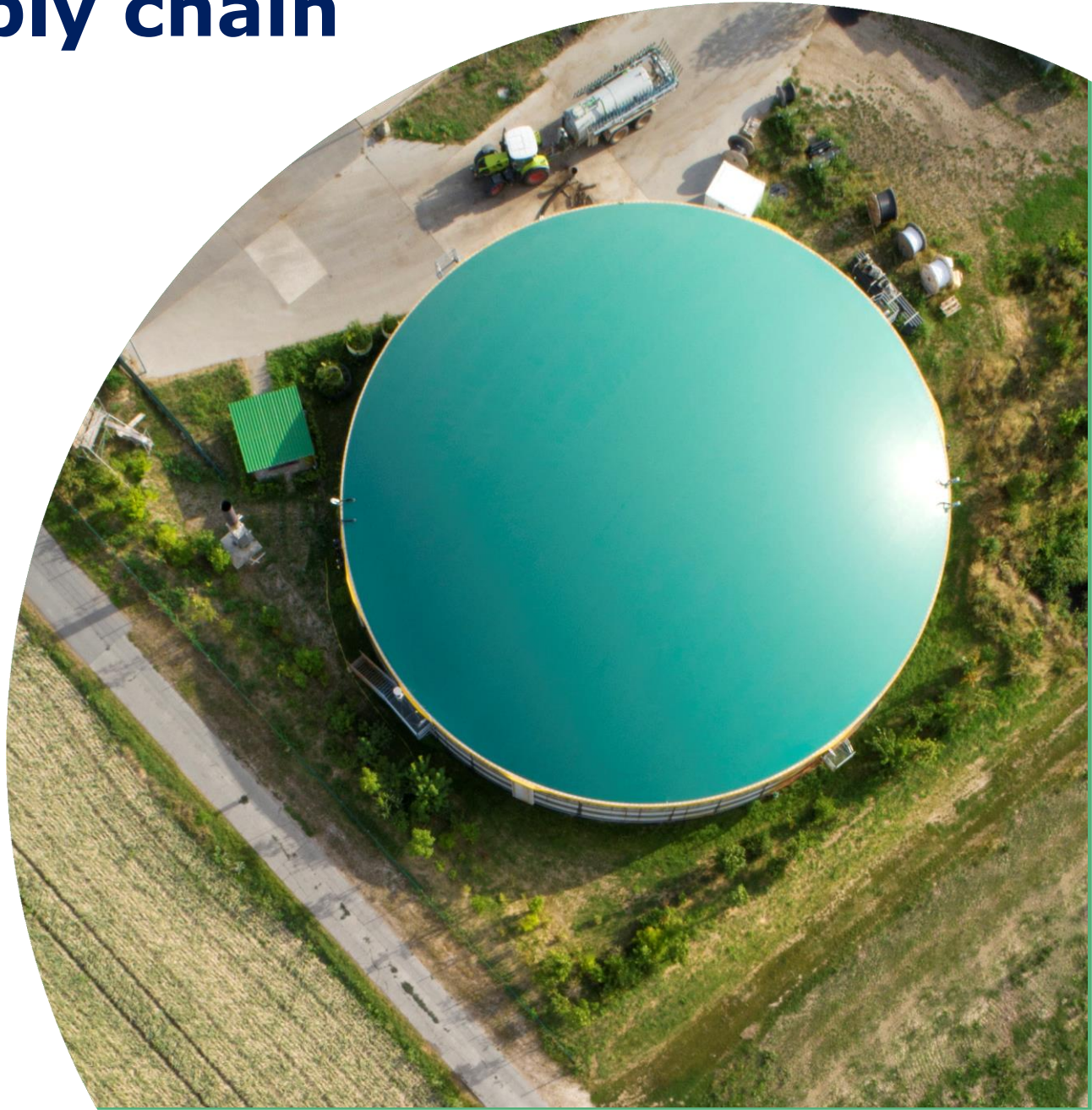


Areas of application biomethane supply chain

- Input to the network
- Tank loading (CNG)
- Vehicle loading (NGV)
- Power supply cogeneration plants
- Micro-liquefaction (LNG)

Solutions

- Quality analysis system
- Volume taxation system
- Automatic interruption and recirculation system
- Biomethane collection facilities
- Filter stations
- Biomethane pressure reduction stations
- Odorization stations
- Data transmission and plant operation monitoring
- Service



Biomethane injection booths and systems for net picking

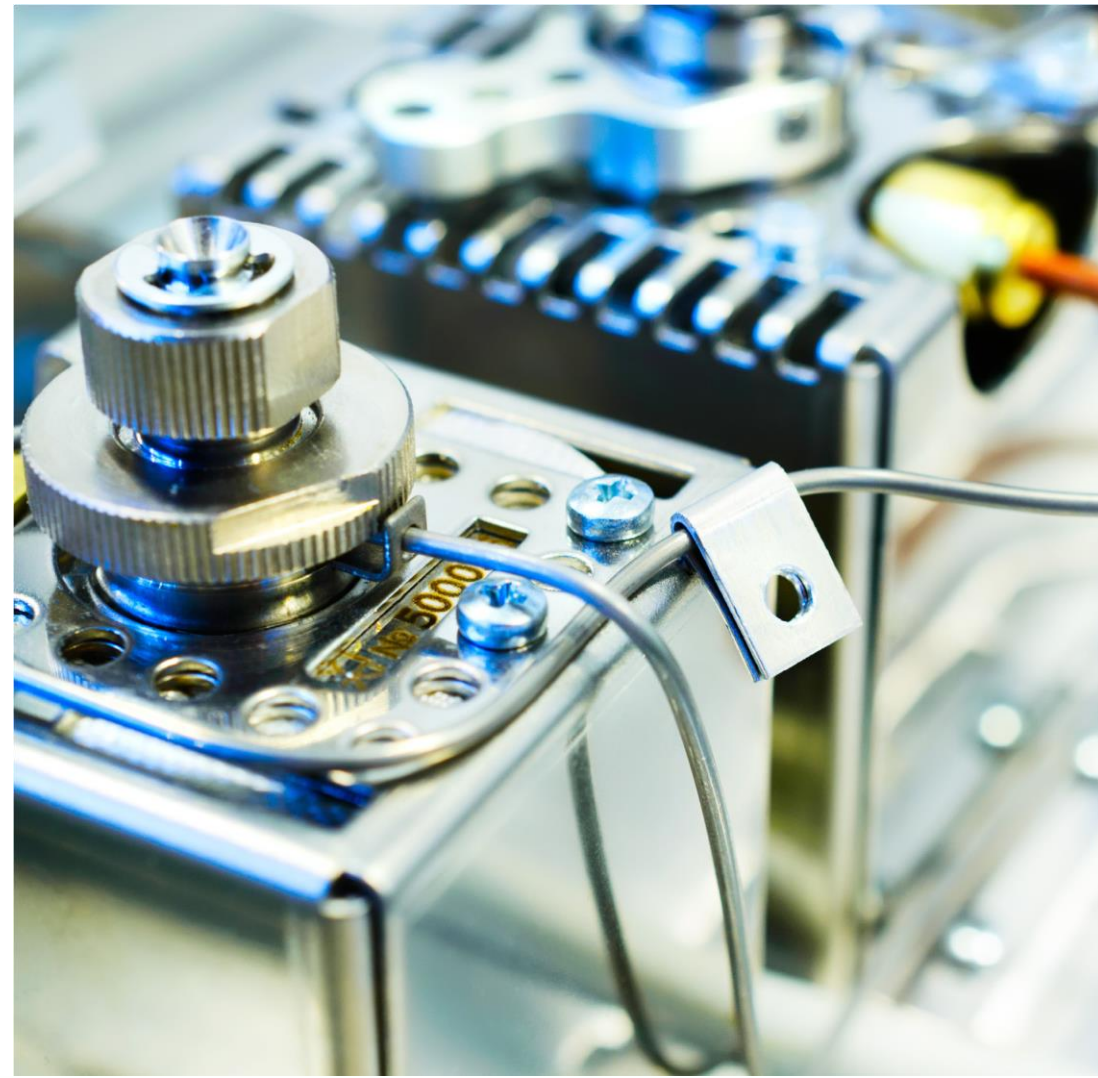
Quality analysis system

Regas proposes integrated and modular systems for in-line gas analysis comply with the provisions of UNI/TS 11537:2024.

Filtering and pressure reduction

Although biomethane is typically very pure, provided filtering stations to protect the instrumentation from potential elements present in the pipes.

In case there was a need for gas pressure reduction exit from upgrading plant before input into the network (low pressure mains input) Regas offers specifications UNI/TS compliant pressure control solutions 11537:2024 and to UNI 9167:2023 and UNI 10619:2014.



Fiscal measure of volumes

In addition to analysing the quality of biomethane, the energy services manager, requires the fiscal measurement of the volumes of biomethane fed into the gas network natural, in order to account for the system of incentives.

Regas manufactures measuring systems that comply with different international standards as well as offering a service of running the measuring systems as ODI pursuant to UNI CEI EN ISO/IEC 17020:2012.

Data transmission and monitoring plant operations

Regas data transmission systems allow constant monitoring, also remotely, of the operating values.

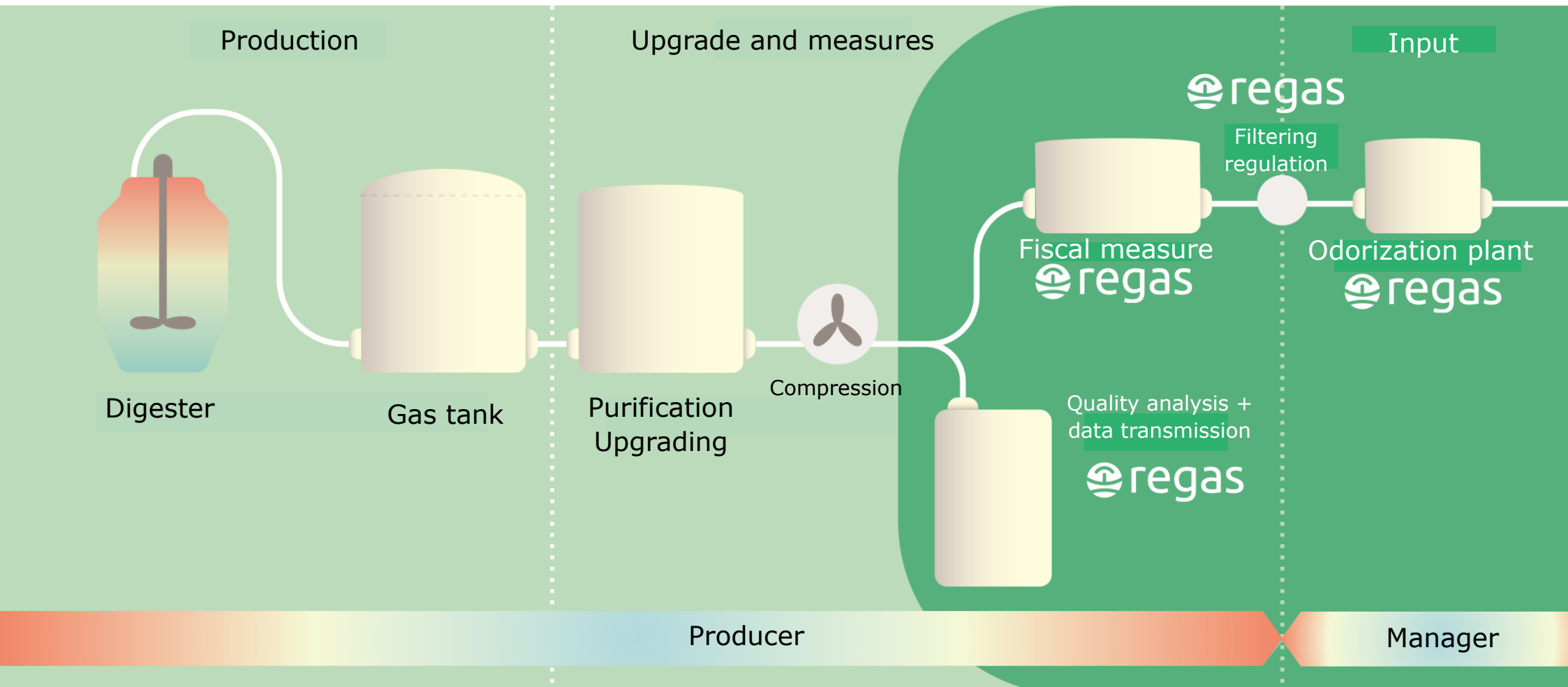


Odorization

Regas has been a specialist in gas odorization since 2000 and manufactures modelled for every possible application scenario (biomethane, biogas, LNG, CNG...), designed to meet every specific need. For the biomethane input, Regas has the solution to avoid common problems determined by their specificities, such as low flow rates typical of biomethane. Regas also has range of odorant systems for high and very high pressure, typical of tank wagons loading.

Service

Regas has in its staff of experienced maintenance teams and qualified according to UNI 11632:2016 and relative UNI PdR 39:2018. Thanks to the three offices in the provinces of Bergamo, Vicenza and Benevento, we can ensure a continuous, efficient and effective service, ensuring 24/7 availability and serenity in the management of biomethane systems.



Cabins RE.MI

In the production plants it can be convenient to take the methane from the network for self-consumption, Regas builds withdraw systems from the network, independent or integrated with other parts of the plant.

Filter section

Although biomethane is typically very pure, special filters are provided for protect the instrumentation from potential elements present in the pipes.

Odorization section

Gas odorization system, specifically designed for the low flow rates typical of individual users. The patented system, called INGRID, boasts more than 1600 installations.

Data transmission and monitoring plant operations

Data transmission systems allow a constant monitoring, even remotely, of the operating values.

Pressure reduction stations

To adapt the gas supplied to the specifications of the destination (typically distribution), REMI stations can be equipped with an automatic adjustment system of pressure.

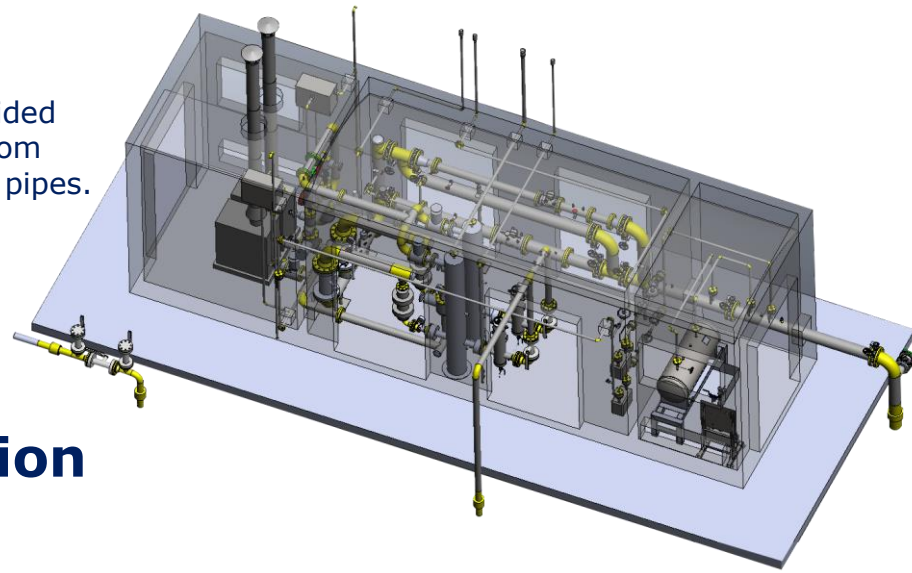
It is designed to ensure the entry also to the change of network fluid characteristics and continuity of the redundancy of the control systems.

Preheating system

Regas offers various solutions for a adequate heating of the gas before reduction, without waste and ensuring maximum continuity of the service. The patented EMMA system, present in over 600 installation ensures constant control of the process, even remotely.

Fiscal measure of volumes

The transmission network operator shall require the fiscal measure of volumes of biomethane taken from the natural gas network.



Services

- Engineering Develop
- Project Management
- Field installation
- After-sales service with direct staff
- Design and planning
- Configuration and implementation
- Certifications
- Legal metrology services (ODI according to ISO/IEC 17020)
- Plant maintenance according to UNI-CIG 9571 and 10702

Reference Regulations

- DM 5/2013
- Del. ARERA 204/2016/R/gas
- Network code Snam Rete Gas
- Technical standard UNI/TS 11537
- DM 16/04/2008
- DM 17/04/2008
- UNI 9167
- UNI 106198
- Directive 2014/32/EU
- Deliberation ARERA 204/2016/R/gas
- 2014/34/EU
- ASTM/API
- UNI/ISO
- ANSI B31.8
- ASME V

