

ROTA GUIDO Service

Thanks to its consolidated experience in design and installation, **ROTA GUIDO** is able to offer 360° assistance on any type of installation, despite the manufacturer.

ROTA GUIDO's service for installations starting from 60 kW is **active 24/7, 365 days a year** and stands for safety and reliability.



Currently, the company has two locations exclusively dedicated to Service with spare parts always available in stock and equipped vehicles to meet all customer needs. A network of qualified technicians, increasingly widespread and growing in number, ensures prompt interventions on all plants across the national territory and abroad.

Customers have the option to sign **full-service or scheduled maintenance contracts**, or to contact us for **extraordinary maintenance (on-call)** with the aim of enhancing and maintaining the maximum efficiency of the plants.

The customer can rely on a single qualified Partner for the necessary support and for managing all aspects of its farm: from livestock farming to biogas and biomethane plants.

The **ROTA LAB** department, with its biologists, is responsible for collecting field samples and subsequently performing all necessary types of laboratory analyses to optimize the biological process, ensure the stability of the anaerobic digestion process and maximize plant efficiency avoiding production losses.

TECHNICAL/MECHANICAL SUPPORT

Our technicians carry out interventions of all types: mechanical, electrotechnical, hydraulic and electrical.

REMOTE SUPPORT

Thanks to the **Control Room**, we provide remote assistance to all customers and our technicians ensuring to manage and solve emergencies on real-time.

COGENERATION SUPPORT

Our dedicated cogeneration team is able to provide support for all types of cogenerators. We handle both ordinary and extraordinary maintenance on all brands of engines and alternators.

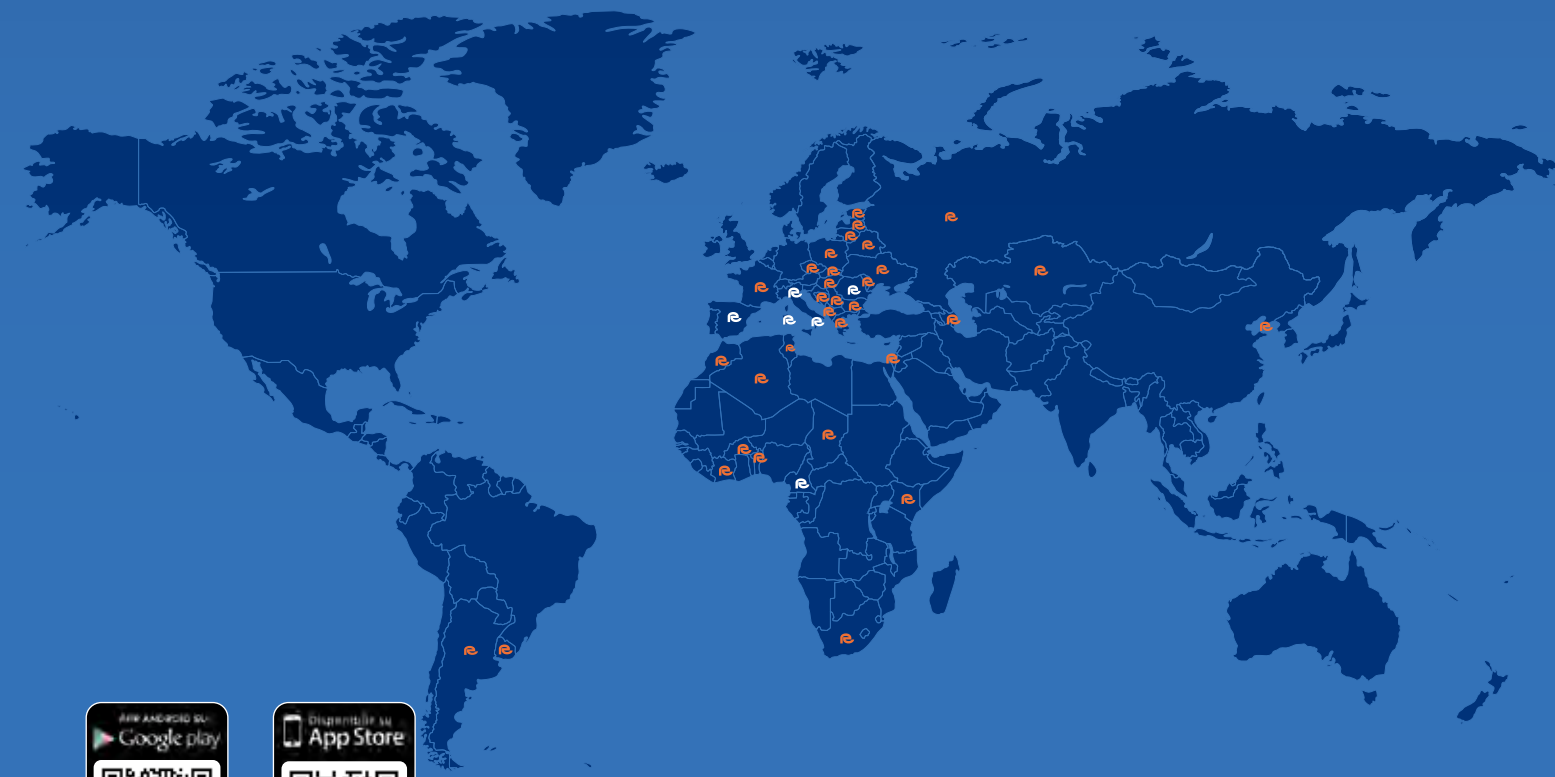
TANK CLEANING AND EMPTYING SERVICE

Concerning extraordinary tank cleaning interventions, ROTA GUIDO offers, after a free preliminary analysis, the guarantee of a prompt intervention with high safety standards for its personnel.



ROTA GUIDO Biogas and Biomethane

More than 450 plants built in Italy and around the world



Download our App

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#letschallengethefuturetogether
Let's challenge the future together



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At the service of
livestock breeding and
environment since **1964**



**BIOGAS
BIOMETHANE**
plants

The Company

ROTA GUIDO, founded in 1964, thanks to its history and the expertise and professionalism of its technicians, is now recognized as an undisputed leader in the Italian market and as a highly reliable company for the design and construction of complete livestock facilities at international level.

Aware that the changing world cannot be stopped but only embraced and transformed into an opportunity, the company has extended its passion and dedication to the new frontier of renewable energy investing resources and efforts in the biogas and biomethane plant sector over the years.

Up to now, the company has designed and built more than **450 plants** that are still operational and highly efficient.
The driving force of **ROTA GUIDO** is the awareness of being able to offer its clients a solid and reliable contribution to apply the best practices in the **animal welfare** and the **valorization of manure and digestate treatment**.

These are the basis for the productivity and profitability of a business in terms of sustainable development, safeguarding the territory and future generations as well as promoting the circular economy.

SAFETY AND QUALITY

Rota Guido operates in all its areas according to safety standards compliant with D.Lgs 81/08 and is also ISO 9001/2018 certified and Bentley SOA, DPR 207/2010.





BIOGAS

BIOGAS

The valorization of livestock manure as an important resource for renewable energy production: biogas can be obtained from manure, a biofuel that can be converted into electricity and heat.

AGROENERGY FOR A SUSTAINABLE INVESTMENT

- Livestock manure pre-treatment, agro-industrial by-products, dedicated second-crop feedstocks anaerobic digester loading
- Anaerobic digestion through bacteria enables the production of biogas
- Cogeneration for the production of electrical and thermal energy partly used for the plant's self-consumption, partly supplied to the national electricity grid and used for district heating (heat)
- Upgrading: biogas purification for the production of biomethane which can be used as fuel for the transportation network, for the natural gas distribution network and for industrial applications
- Post-treatment: digestate separation into fertilizer (liquid fraction) or into compost and bedding for the cubicles (solid fraction)

RENEWABLE ENERGY: THE PERFECT COMBINATION BETWEEN LIVESTOCK FARMING AND THE ENVIRONMENT

- We are committed to promoting sustainable livestock farming:
- the highest possible welfare level for all types of animals
 - ensuring social, environmental, and economic sustainability
 - with installations that produce high-quality natural gas



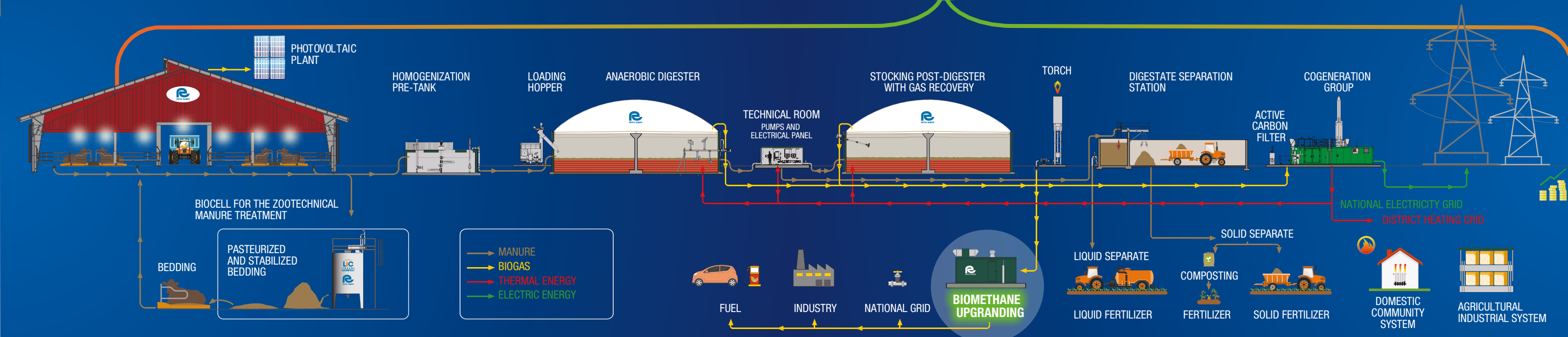
YOUR FARM INTEGRATED WITH BIOGAS AND BIOMETHANE

The services of ROTA GUIDO

1. Economic analysis and feasibility studies
2. Assistance during the authorization phase
3. Engineering consultancy
4. Preliminary and final design
5. Implementation, testing and commissioning
6. Ongoing service
7. Barn and plant monitoring and REMOTE CONTROL for a SUSTAINABLE MANAGEMENT of the entire ZOOTECHNICAL CENTRE



The correct sizing of the barn and its sewage is the MAIN element for the creation of a profitable and sustainable BIOGAS and BIOMETHANE plant.



Thanks to our "Smart Farm" software, all farmers can:

- MONITOR
- MANAGE REMOTELY
- COLLECT DATA

Ventilation and temperature
Lighting
Windows
Complete panel for scrapers
Washing and slurry transfer
Separation

Barn



Biogas plants
Biomethane plants
Photovoltaic installations

Renewable energies

BIOMETHANE AND DIGITAL FARMING

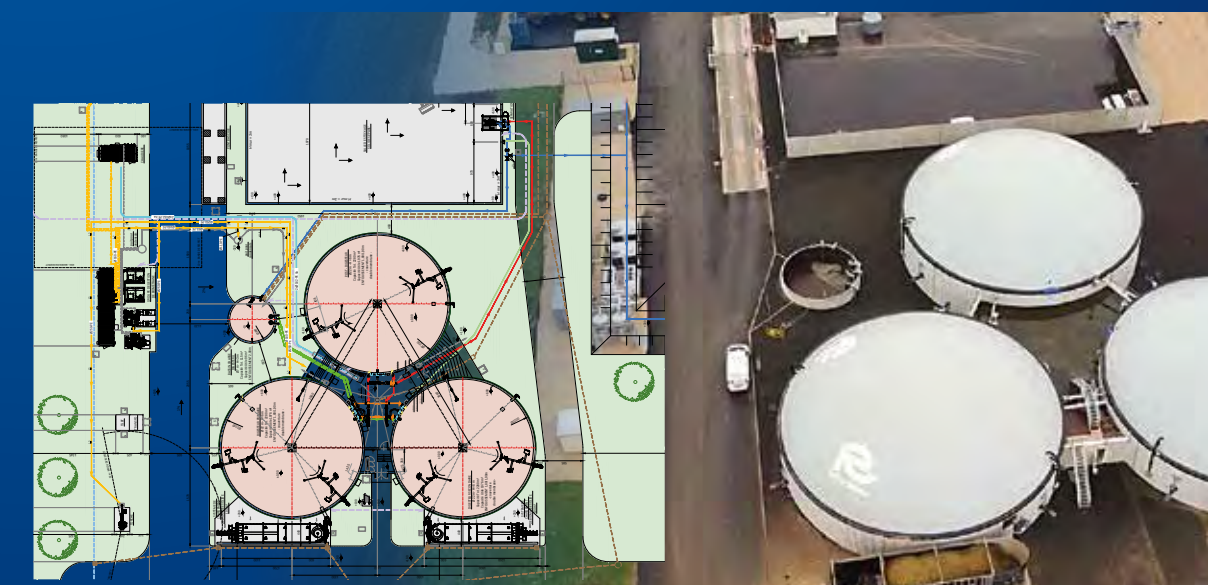
Rota Guido is supporting farmers worldwide in the transition to biomethane building new plants and carrying out revamping interventions on existing biogas plants.

Biomethane plants main size

BIOGAS		BIOMETHANE	
500 KW	→	125 Sm ³ /h	
1000 KW	→	250 Sm ³ /h	

Case history of a 250 Sm³/h biomethane plant

- Anaerobic digestion in two digesters and one post-digester, with a diameter of 22m and a height of 6m (total volume approximately 6,000m³)
- Internally mixed tanks, properly insulated and covered with gas holders membrane for biogas storage
- Biomass loading thanks to two hoppers of 100m³. The material is conveyed into loading screw to charge the digesters
- The transfer of biomass is ensured by pipelines, valves and pumps sized for reliable operation and low maintenance costs
- Upgrading: the production of approximately 500 Sm³/h of biogas precedes the purification phase which results in approximately 250 Sm³/h of biomethane



BIOMETHANE
and DIGITAL FARMING