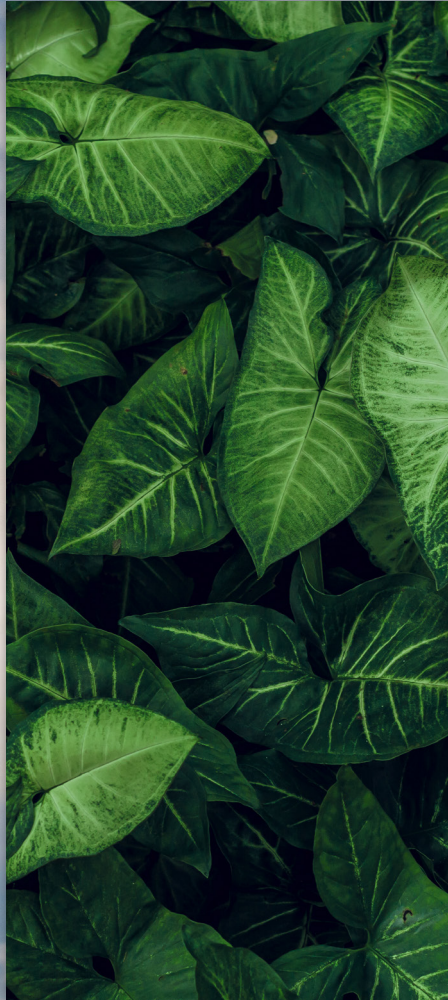




**GREEN**  
methane



# The future of energy in Europe lies in Biomethane

The advantage of generating clean energy and capturing CO<sub>2</sub> by earning credits according to the EU's "cap-and-trade" system.

[www.greenmethane.it](http://www.greenmethane.it)

# BENEFITS

A clear directive set by the European Union:

reduce  
greenhouse  
gas  
emissions  
43,7%  
by

2030

through the “cap-and-trade” system (43,7% greenhouse reduction by 2030 compared to 2005).



# This context provides a safe edge for those who are able to invest in Biogas.

## INVESTMENT FUNDS

Turn-key solutions from sole provider, converting obsolete technologies and guaranteeing ROI.

## ENERGY COMPANY SPIN-OFFS

Opportunity to cooperate and create spin-offs with energy corporations.

## FARMERS/BREEDERS

Establishment of new turn-key plants, upgrading biogas, converting obsolete technologies.

## MUNICIPALISED COMPANIES

Construction of plants to handle OFMSW and/or sewage sludge purification (single provider), biogas upgrading in operational plants, conversions of obsolete technologies etc.

## INDUSTRIAL ZONES FACING CO<sub>2</sub> EMISSIONS PENALTIES UNDER EU REGULATIONS

Plants for biomethane production on new projects, obsolete technologies reconversion, conversion of cogeneration systems and systems for capturing CO<sub>2</sub> from industrial fumes as well as CO<sub>2</sub> molecule separation during hydrogen production processes.

# OUR OFFER

**We specialise in the design and supply of turn-key systems for biomethane production, catering to both new projects and the conversion of obsolete systems.**

Furthermore, we undertake the conversion of cogeneration plants and the implementation of solutions for CO<sub>2</sub> capture from industrial fumes as well as the separation of the CO<sub>2</sub> molecule during **hydrogen production** processes.



# Thanks to our unique technology and the possibility of providing diverse alternative solutions

for the upgrading of biogas units from agricultural waste, OFMSW, livestock waste and sewage sludge, we position ourselves as an unparalleled

## SOLUTION PROVIDER

with the aim of identifying the best solution tailored to our customers' specific requirements.



# WHO WE ARE

We are suppliers for leading Italian municipal corporations and prominent industrial conglomerates, showcasing the effectiveness of our proposed solutions.

Thanks to our in-house expertise and diverse, **long-standing partnerships**, we offer our customers comprehensive support in preparing the documentation required for plant project approval, up to the management of biomethane collection.

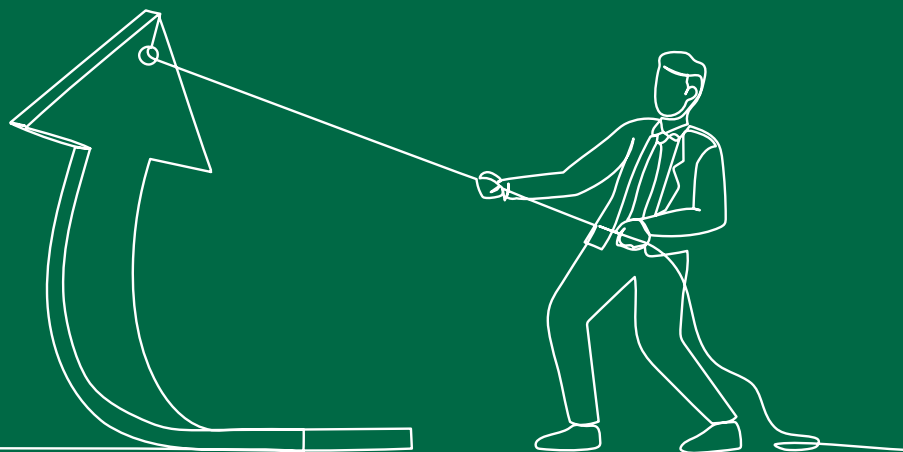
Additionally, we offer assistance in selecting utilities such as co-generators, biomethane compression, measuring and delivery cabins, methane and CO<sub>2</sub> liquefaction, conducting an analysis of investment and operational costs alongside associated profit expectations.

# MORE THAN DESIGN AND SALES

We do not just provide simple design support and plant sale: thanks to an extensive technical service and a centralised spare-parts warehouse, we consistently guarantee

## high plant availability

even going as far as providing direct management carried out by our dedicated on-site technicians.



# GUARANTEE

# EFFICIENCY

## The customer is never left alone.

Even after plant start-up, we remain constantly present through remote control from our operations centre and offer round-the-clock support, aiming not only to facilitate on-site service interventions but also to minimise the need for them.

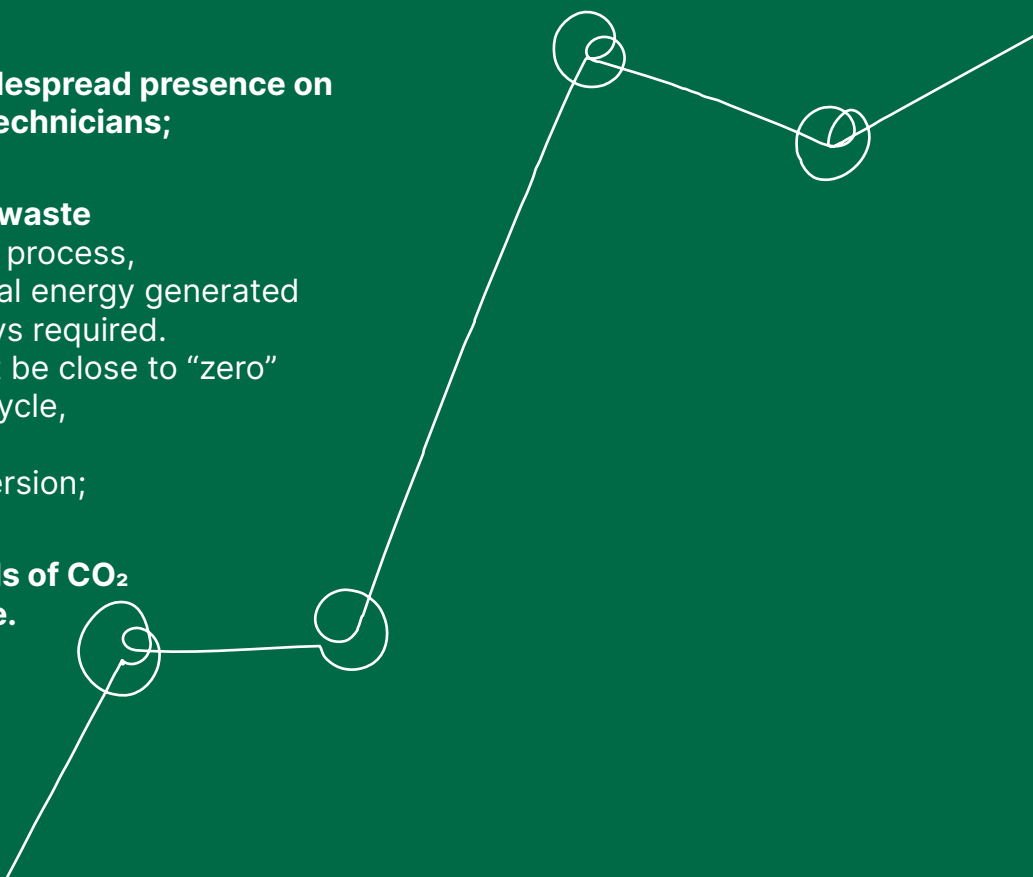




# TECHNICAL AND ECONOMICAL BENEFITS

Our exclusive proprietary technological solution distinguishes itself for its low energy requirement, perfect integration within the plant and one of the highest CO<sub>2</sub> recovery rates achievable to date.

## SUMMARISING IN POINTS:

- **High plant availability** (hours/year);
  - **Low or zero methane emissions into the atmosphere**  
(= obtaining the maximum of the expected incentive, subject to reductions as sustainability decreases);
  - **Low O&M costs and widespread presence on the territory of skilled technicians;**
  - **Valorisation of thermal waste**  
During the authorisation process, an analysis of the thermal energy generated to serve the site is always required. This energy output must be close to “zero” at the end of the plant cycle, preventing excessive heat production or dispersion;
  - **One of the highest levels of CO<sub>2</sub> purity attainable to date.**
- 

# ROUND THE CLOCK AVAILABILITY, 7 DAYS A WEEK

Solar (photovoltaic) and wind energy are extensively used renewable energy sources, but are subject to fluctuations stemming from meteorological conditions and solar irradiation.

**Derived from biomass, Biomethane provides a continuous and controllable output.**

This feature renders biomethane a reliable energy source that can be used consistently, without being affected by climatic variations.



An aerial photograph of a lush green forest. A paved road with yellow lane markings curves through the trees in the middle ground. The trees are dense and vibrant green, filling the entire background.

# Biomethane: the **GREENEST** solution

All renewable energy sources contribute favorably to the protection of the environment as they reduce reliance on fossil fuels.

**Biomethane, in addition to replacing fossil fuels, also contributes to the reduction of methane emissions into the atmosphere, resulting from untreated organic waste.**

Not everyone is aware of the fact that the disposal of organic materials such as manure and crop waste in fields, can adversely affect climate change. When organic matter decomposes in the presence of oxygen (in an aerobic environment), it generates carbon dioxide (CO<sub>2</sub>) which is released into the environment. When these materials decompose anaerobically (without oxygen) underground, they produce methane which is released into the atmosphere.

Methane produces a greenhouse effect 25-30 times greater than CO<sub>2</sub>, especially impactful over shorter timeframes.



If you share  
our vision and  
you like what  
we do,

**THEN DO IT**

**WITH US.**

Contact us at: [info@greenmethane.it](mailto:info@greenmethane.it)



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