


ECOVRY

WASTE ENERGY RECOVERY SYSTEMS

THE MOST ADVANCED BIO
METHANE PRODUCING SYSTEMS

The advantage of generating clean energy and
capturing CO2 in pursuit to the ESG





Team **ECOVRY** transcends boundaries to redefine excellence in environmental engineering. With a legacy built on innovation and a steadfast commitment to sustainability, we stand as pioneers in crafting solutions that harmonise with the planet.

Our journey is defined by a relentless pursuit of perfection, fueled by a passion for creating transformative solutions that propel industries forward while safeguarding the delicate balance of our ecosystems. From the construction and execution of state-of-the-art technology to the intricate intricacies of biogas production and waste management systems, our portfolio boasts a rich tapestry of success stories that bear testament to our unwavering dedication.

With **ECOVRY**, expect nothing short of excellence – where sophistication meets innovation, and experience meets ingenuity. Join us as we continue to shape the future of environmental sustainability, one visionary project at a time.



ECOVRY

KEY ADVANTAGE OF TECHNOLOGY

Alt compliance for rooftop
space taken up by
Solar Panels



Reduces Carbon &
Methane Emission



Cost Effective
Renewable Energy



Customisable to
your area
requirements



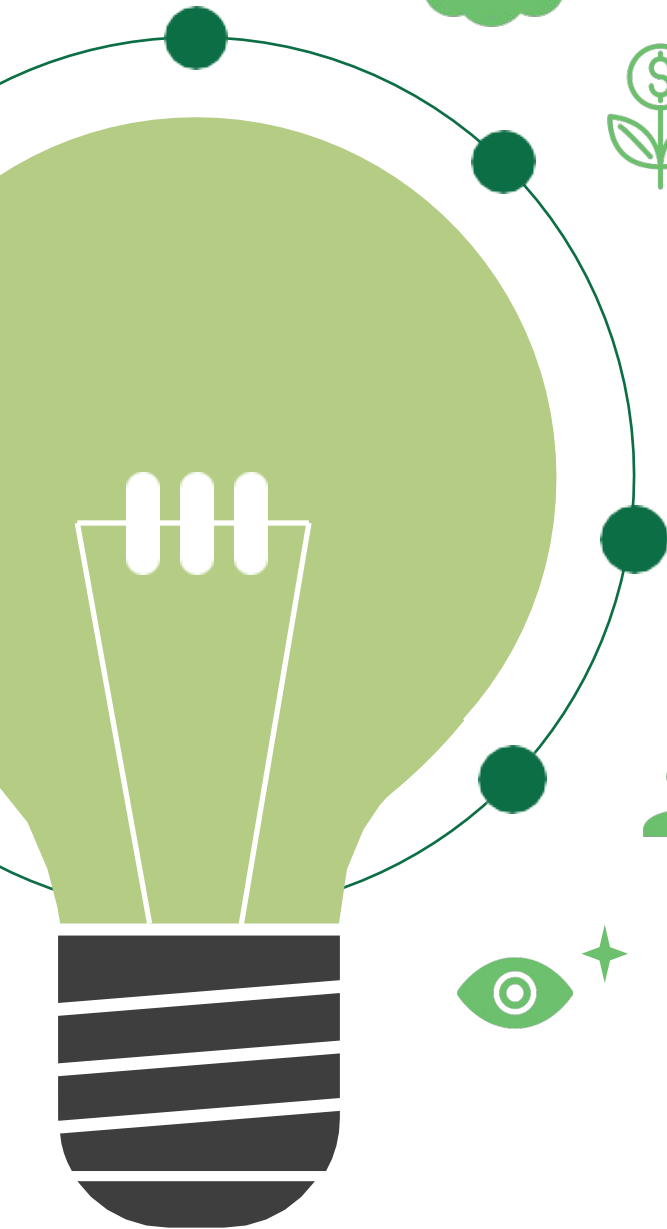
Odourless



User Friendly &
Low operating
cost



Aesthetically
Pleasing



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 CO₂ capture from industrial fumes as well as the separation of the CO₂ molecule during hydrogen production processes.



WHO WE ARE

We are suppliers for leading Government organisation 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 bio-methane collection.

Additionally, we offer assistance in selecting utilities such as co-generators, bio-methane compression, measuring and delivery cabins, methane and CO2 liquefaction, conducting an analysis of investment and operational costs alongside associated profit expectations.

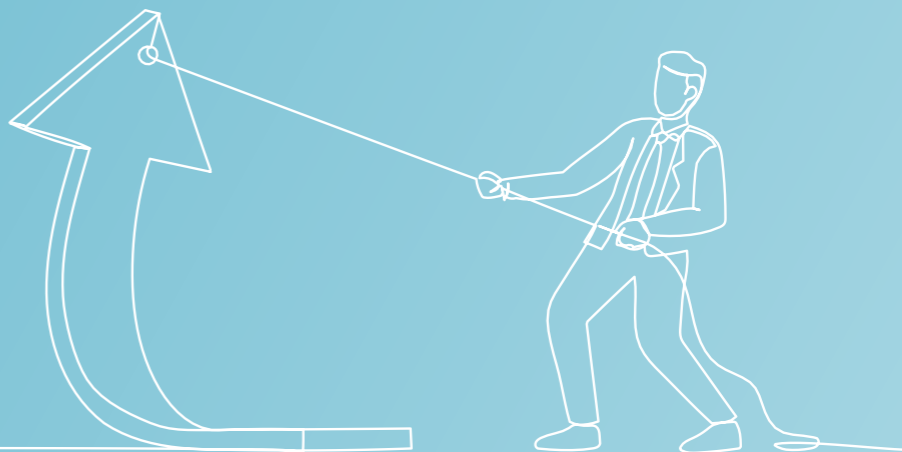


MORE THAN DESIGN AND SALES

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.



GUARANTEED EFFICIENCY

The customer
is never left
alone.

Even after plant start-up, we remain constantly present through our local 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 CO₂ 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 CO₂ 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
food waste,
Bio-methane
provides a
continuous and
controllable
output.

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



Biomethane: the **GREENEST** solution

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

Bio-methane, 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 (CO₂) 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 CO₂, especially impactful over shorter timeframes.



KEY DESIGN ASPECTS

ISO-THERMAL
INSULATION

COMPACT
DESIGNING

LOWER
MANPOWER
OPERATIONS

ADVANCED
MATERIAL
SELECTION

ACTIVE pH
STABILISATION

BOOSTED
METHANE
YIELD

AUTOMATIC
MIXING

SPECIFIC
HYDRAULIC
RETENTION

IOT READY
CONTROL
SYSTEM

PRE-
PROCESSING
FEEDSTOCK

DIGESTATE
MANAGEMENT

AUTO SCUM
REMOVAL
SYSTEM

24/7
OPERATION
READY

SAFE
OPERATION
DESIGN



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