



PRESS RELEASE
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Enosis becomes the first French company certified to produce renewable e-methane:

Enosis' plant, DENOBIO, can now certify the e-methane injected into the gas network, demonstrating that biological methanation is a commercially mature pathway to produce renewable e-methane.

A French pioneer in the production of e-methane, the Toulouse-based SME Enosis is positioning itself as a project developer and producer of renewable gas. To produce it, the company relies on its biological methanation technology to recycle CO₂ by combining it with H₂ to produce e-methane. After demonstrating its process on an industrial scale and injecting e-methane into the GRDF gas network since July 2025, the company has reached a new milestone with its DENOBIO project by becoming the first French company to obtain ISCC EU RFNBO certification for e-methane. This makes it possible to demonstrate the renewable nature of the eligible volumes and to issue the associated Proofs of Sustainability (PoS), thus opening up new marketing prospects in France and Europe.

Certification, key to the recognition of e-methane as a renewable gas.

Foreseen in the framework of the European RED III directive, the **RFNBO certification issued to DENOBIO by the ISCC** (International Sustainability and Carbon Certification) attests to the renewable nature of the eligible volumes produced by Enosis and their compliance with European and French requirements.

In particular, it confirms that the **e-methane produced allows a reduction of more than 70% in greenhouse gas emissions** over its entire life cycle compared to its fossil equivalent, as well as a **negative carbon intensity** from a **well-to-tank** perspective.

Enosis thus becomes the **first French company** – and the 7th in the world – to obtain this certification. This validates the previous industrial milestone, reached in 2025, with the production and injection of e-methane into the gas network thanks to DENOBIO, the Enosis plant, located on the Energia Thiérache methanisation site in Aisne (02).

In concrete terms, **for each eligible volume marketed, Enosis can now issue a PoS**. A real "identity card" for the gas marketed, the **PoS allows buyers to justify its renewable nature with regard to regulatory obligations**. It is in this context that Enosis has **signed a partnership with ENGIE** for the supply of the PoS marketed by DENOBIO. The French energy company can therefore add locally source renewable e-methane to its portfolio.

"This certification is a significant milestone for the deployment of our projects and the development of e-methane in France. It demonstrates that biological methanation is now a mature industrial solution, capable of transforming renewable hydrogen and biogenic CO₂ into a certified renewable gas. We thus join other pioneers in the production of RFNBO e-methane."

Vincent Guerré, CEO
Enosis

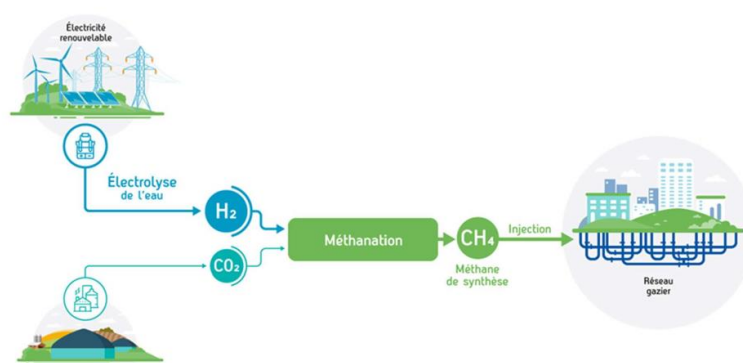
"E-methane is one of the solutions closely monitored by ENGIE, alongside other renewable gases. This first transaction with Enosis allows us to test the production, certification, transport and sale of volumes of e-methane on a French facility on a full-scale scale. It is an essential learning step to prepare for the future."

Sébastien Delannoy, Head of Gas Assets & Developments Europe
ENGIE

Biological methanation: transforming CO₂ into renewable gas.

Biological methanation is a process that **transforms CO₂ into e-methane by combining it with renewable hydrogen**, which is currently mainly produced by electrolysis. This is called a "Power-to-Methane" installation.

The e-methane, which is **immediately compatible with existing gas infrastructure**, can then be injected, stored or **used as a replacement for fossil gas**. When it meets the applicable European criteria, this e-methane can be certified RFNBO (Renewable Fuel of Non-Biological Origin).



Harnessing the potential of anaerobic digestion sites

Anaerobic digestion sites are a prime target for the development of renewable e-methane projects. France currently has more than **845 anaerobic digestion sites producing more than 16 TWh of renewable gas**, i.e. **nearly 5% of French gas consumption in 2025**. These sites transform organic matter – agricultural residues, livestock manure, sewage sludge and waste, etc. – into biogas composed mainly of methane and carbon dioxide. The **CO₂ resulting from this process is called "biogenic"** because it comes from organic matter, not fossil resources. It represents an average of 40 to 45% of biogas and must be separated from methane to obtain biomethane that can be injected into the gas network. Still largely released into the atmosphere, **this CO₂ is the resource that Enosis proposes to valorize, making it a new energy resource**.

By transforming 100% of CO₂ into e-methane, **biological methanation increases the production of renewable methane by 70 to 100%, without adding additional organic matter**. For anaerobic digestion farmers and local authorities, **this additional production makes it possible to extract more value from an existing facility, without mobilizing more biomass**, agricultural land or logistics flows. It can thus diversify the economic model of existing or developing sites and generate **new sources of income for the sector and local authorities**.

Strengthening the flexibility and resilience of the power grid.

The **development of renewable energies** such as wind and solar energy **increases the need for flexibility** in the electricity system to adapt variable renewable production to demand. On the one hand, it is a question of **limiting congestion and, on the other hand, of better matching variable renewable production**, which is difficult to control, with demand. **Power-to-methane projects can help to provide the desired flexibility**. The energy recovered in e-methane can be stored, transported and used via existing gas infrastructures and mobilised according to the needs of end customers.

Contribute to reaching French and European renewable objectives.

During its latest multi-year planning exercises, the State has proposed an ambitious trajectory for the production of renewable gas, particularly in terms of biomethane and hydrogen. **However, hydrogen is still struggling with low demand, as well as the lack of distribution and storage infrastructure**. Power-to-methane and the production of e-methane coupled with anaerobic digestion meet this dual challenge: they constitute a simple and immediate outlet for hydrogen produced by electrolysis. These no-regret investments can then be amortised over the operating period.

By **coupling only 13% of anaerobic digestion sites** with this technology by 2030, France could produce **up to 5 TWh of renewable e-methane**, i.e. nearly 30% of current biomethane production. They would therefore also make it **easier to meet the challenges of production and consumption of RFNBO** provided for by European legislation for certain sectors such as transport.

DENOBIO: from industrial demonstration to certified renewable gas



In 2025, Enosis inaugurated DENOBIO, the first French industrial-scale biological methanation unit injecting into the natural gas network. **Located in the Aisne (02) department, on the Energia Thiérache anaerobic digestion site**, DENOBIO is the winner of the «Briques technologiques et démonstrateurs hydrogène » call for projects, **operated by ADEME as part of France 2030**. The first French biological methanation facility to continuously inject e-methane into the gas network, DENOBIO is the culmination of more than ten years of research and development and marks the transition of Enosis' technology to an industrial scale.

Since July 2025, the e-methane produced by DENOBIO has been injected into the network operated by GRDF, which supports Enosis with regards to metering and gas injection. **The RFNBO certification obtained by Enosis marks a milestone** by certifying the renewable nature of the eligible volumes injected into the network.

Wastewater treatment plants, New renewable energy production sites

In addition to farms, anaerobic digestion can also be deployed on **wastewater treatment plants (WWTS) equipped with anaerobic digestion units**, in order to recover CO₂ and increase their production of renewable gas. A partnership signed with Saur at the Salon des Maires et des Collectivités Locales (SMCL) in November 2025 aims to develop these applications.



A milestone towards the European market

With this certification, **Enosis now intends to accelerate the commercial deployment of its solutions in France and Europe**. It comes at a time when European **demand for renewable fuels of non-biological origin (RFNBO) is set to grow**, driven in particular by the strengthening of decarbonization obligations in transport and industry. Maritime transport, mobility that is difficult to electrify and certain industrial uses are thus potential outlets for certified renewable e-methane.

By making it possible to produce renewable gas locally from biogenic CO₂ and renewable hydrogen, e-methane also contributes to strengthening French and European energy sovereignty and reducing dependence on fossil fuel imports while offering outlets for renewable electricity production.

About Enosis

Enosis is a Power-to-Methane project developer, a French producer of renewable gas and a technology manufacturer specializing in the manufacture, marketing, operation and maintenance of its biological methanation reactors. Its projects aim to transform CO₂ and renewable hydrogen into e-methane in order to increase the production of renewable gas from existing biogenic resources.

About DENOBIO

DENOBIO is a project funded by the State as part of France 2030, operated by ADEME, and funded by the European Union - NextGenerationEU. It also benefits from the support of the Hauts-de-France Region and GRDF.