



Renewable energies

Biogas

## BIOGAS OUR SOLUTIONS

### BIOGAS PURIFICATION PROCESS

Within the context of the [Biomet project](#), IFPEN and Arol Energy, a specialist in the energy recovery of biogas in the form of biomethane, demonstrated a new technology based on a **high-energy performance gas sweetening process**.

« *The aim of this project was to validate two complementary innovations on an industrial scale:*

- *firstly, a thermal integration process patented by Arol Energy, making it possible to recover almost all of the heat used in the gas sweetening unit to heat the digesters,*
- *secondly, a new solvent developed by IFPEN, reducing the global energy consumption of the process by between 20% and 30%.*



*The objectives have been met and the treated biogas has been being re-injected into the network for almost two years now. IFPEN contributed:*

- *its technical and scientific expertise,*
- *as well as the support of its teams to:*
  - *conduct performance tests,*
  - *commission the demonstration unit,*
  - *and collect feedback on the operation of the process.*

*We also signed an exclusivity agreement on the use of the IFPEN solvent in the field of biogas conversion: it is a strategic asset for Arol Energy since it enables us to offer our customers **improved biomethane productivity** and optimized regeneration costs. We hope that this partnership will be reinforced in the future, still built on a joint technological innovation. »*



***David Bossan, Chairman and founder of [Arol Energy SAS](#)***

---

## CONTACT



**Raphaël Huyghe**

Program manager

[raphael.huyghe@ifpen.fr](mailto:raphael.huyghe@ifpen.fr)

Our solutions

Link to the web page :