



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](#)**

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## CONTACT



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Our solutions

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