



# Bio360 2025 Innovation award winners

## Gold Innovation award



### CH4 Process

*BIOGAS category*

Characterisation and regeneration of biomethane purification membranes



CH4 Process company offers a new service to analyse the performance of ceramic membranes and recondition them where necessary. This innovation appealed to the jury because of its relevance to market needs and its positive economic and environmental impact. The idea of reconditioning equipment that could supply

a second-hand market or avoid having to buy new equipment is completely in tune with the times: re-use. The application was well documented, with scientific evidence to back it up.



### KiRa Technology

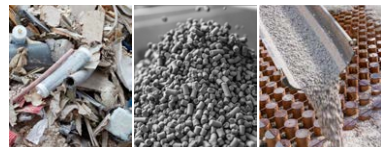
*BIOCHAR category*

BioGS-1.0



KiRa Technology appears to have cracked a tough nut with its micro-CHP system, using advanced pyrolytic gasification to produce 1 kWe of electricity and heat from diverse biomass, including agricultural residues. The BioGS-1.0 process generates biochar with over 90% carbon, adding value as a soil enhancer or carbon sink and enabling negative emissions.

Backed by a growing number of units operating in exacting, remote locations, its early market validation places the BioGS-1.0 on the cusp of potentially making a significant impact in small-scale applications.



### Néolithe

*CDR category*

l'Anthropocite



Néolithe's innovation is embedded in the transformation of non-recyclable, non-hazardous waste into aggregates for concrete, offering a circular alternative to landfill and incineration. Its patented Accelerated Fossilisation® process reduces CO<sub>2</sub> emissions and sequesters biogenic carbon, halting its release into the atmosphere. With an ambition

to scale up to 100,000-tonne plants, Néolithe benefits to society lie in creating local circular economies, supporting the construction industry, and driving progress toward carbon neutrality.



### ProGranul France

*BIOMASS category*

Greased for Life Rollers



Prodesa's Lifetime Lubricated Rollers (LLR) feature a lubrication-free design, using less than 1kg of grease per roller for its service life. With a specialized lubricant for PROGRAMUL systems and a focus on maintaining oil film integrity, they reduce maintenance, prevent pellet contamination, and lower environmental impact. Proven

through thousands of operational hours in high-pressure environments, LLR rollers demonstrate consistent performance and market readiness with significant operational benefits.



# the Winners

## Silver Innovation award

**methagora**



**Methagora**  
 BIOGAS category  
 Mobile gas



Methagora offers a solution for injecting portable biomethane. Although the subject is not new, it has never been implemented in France before. This French first therefore serves as a benchmark for the biomethane sector and will provide interesting feedback. The jury therefore congratulates this initiative.

Carried biogas enables AD units far from the gas network to inject their biomethane as well as to share the injection station with others. The application submitted to the jury was very well detailed, both technically and economically.

**Calpech**



**Calpech**  
 BIOGAS category  
 CE-IN Biogas



Spanish company Calpech has developed an additive based on a by-product of the olive oil industry to optimise biomethane production. The nanoparticle produced is composed of iron oxide and carbon. Added in small quantities to digesters, the additive reduces H<sub>2</sub>S production and optimises biogas production, with results

of up to 40% more biogas. This biosourced additive therefore represents an innovation for the industry in both economic and environmental terms.