BIOELECTROCHEMICAL CONVERSION OF CO2



35-45%

of biogas is CO₂, a harmful gas of the environment.

"Our innovative technology is a carbon sink, converting CO2 into organic compounds instead of being released and harm the environment!"

HOW TO CONVERT THE CO2, IN ORDER NOT TO RELEASE

IT INTO THE ENVIRONMENT?

> WHAT?

Aqualia and University of Girona developed a bioelectrochemical conversion process, that transforms CO2 into valuable molecules to be used by chemical industries.

> WHEN?

Currently this technology is at TRL 5 and it is expected to reach TRL 7 by the end of the project. AQUALIA is anticipating to be able to introduce these processes in the market 2 years after the project ends (2023).

> HOW?

Bioelectrochemical conversion is a process that occurs using electricity and bacteria.

Agualia adapts this technology in order to use CO₂ as a feedstock to be converted, and thus avoid its release into the environment.

The CO2 converted is extracted from the biogas, using a saturation column to isolate it from the biomethane. Thanks to this process, the CO₂ collected is at a liquid state and can therefore be used as feedstock in the Bioelectrochemical system.



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Want to learn more about bioelectrochemical conversion of CO₂?

- · Listen to our webinar on Technologies for urban biowaste and wastewater valorisation.
- Discover our SCALIBUR project.







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