



# Biogas – from waste to energy

## Introduction to biogas

Biogas is a renewable energy source that can produce electricity, heating, or fuel. The gas, consisting primarily of methane and carbon dioxide (CO<sub>2</sub>), is produced by anaerobic digestion of organic material.

The organic material can be slurry from farms or waste from the food industry. Farmers who supply slurry to the biogas plant get it back after degassing. The waste product after degassing slurry can be used as fertiliser on the fields.

Information about the in- and output material is essential in the daily operation of a biogas plant. At Eurofins Agro in Denmark, we proudly deliver our high-quality analysis to the entire value chain within the Biogas Industry.

### Analysis of (degassed) slurry

Standard chemical analysis is offered:

- Dry matter
- Nitrogen (total and ammonium)
- Phosphorus, potassium, sulphur, chloride
- Ash

These analyses are identical with those offered to farmers during the fertilising season.

### Analysis of the organic material

Examples of organic waste from the food industry is slaughterhouse waste, bleach soil, wastewater, fats, and fish waste.

Analysis of organic waste is often more complex than analysis of slurry.

The biogas potential can be determined by a putrid behaviour analysis. This is a time consuming analyse with a TAT of four weeks.

As an alternative we offer analysis that can give an indication of the biogas potential by using less time-consuming analytical methods:

- Nutritional analysis including calculation of (digestible) carbohydrates.
  - Theoretical BMP based on Buswell equation.
- Chemical Oxygen Demand (COD)
- Organic Matter
- Calorific value

## Legislative analysis

Due to legislation is the below mentioned analysis requested. These are offered in cooperation with our Eurofins Interco partners:

- Xenobiotics: Heavy metals, LAS, DEHP, PAH
- Microbiological pathogens: Salmonella, Enterobacteriaceae, E.Coli
- Biowaste sieving on household waste.

## Add-on services

We offer customized solutions as a part of our services:

- Automatic data exports (excel or csv files) send by e-mail.
- Packing material for all types of analysis.
- Logistics: sample pick-up.
- EOL online registration.

We work together with our customers finding solutions to meet their needs in the daily operations.



## The future

The Biogas Industry is relatively young and is therefore constantly evolving. New organic sources are being tested. New legal requirements are introduced. New biogas plants are built.

At Eurofins Agro we thrive to be in front and keep up to date with the latest news in market developments, analytical needs, and legislative changes.

## Nordic Biogas Conference 2026

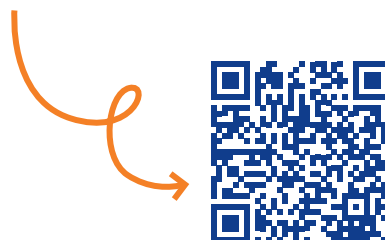
At the Nordic Biogas Conference do you have the possibility to obtain knowledge regarding the latest market developments and network with representants from the entire industry.

**Where:** Reykjavik, Iceland

**When:** September 2nd-3rd, 2026

**More info:**

[www.nordicbiogasconference.com/about-nbc](http://www.nordicbiogasconference.com/about-nbc)



## Contact info

Please reach out for more info. We are happy to share our experience - both does and don'ts – from almost ten years of experience.

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