

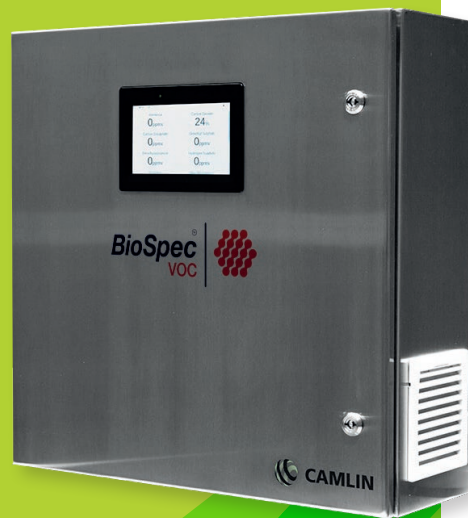
BioSpec[®]
VOC



BIOSPEC VOC CASE STUDY: TECNO PROJECT INDUSTRIALE

Customer: Tecno Project
Industriale S.r.l.

Location: Curno, Italy



BioSpec VOC supports accurate biogas monitoring for TPI

TPI has selected Camlin's BioSpec VOC online monitoring solution to support optimised maintenance schedules for its biomethane upgrading plants.

The Challenge

TPI (Tecno Project Industriale) is part of SIAD, a leading Italian chemical group specialising in industrial gases, engineering and healthcare services with sites in Europe and worldwide. Based in Curno, near Bergamo, TPI supplies innovative gas treatment and purification solutions for the beverage industry and other market sectors. As part of its portfolio, the company also offers its industrial customers a range of high-performance biogas upgrading plant solutions.

Before raw biogas can be upgraded to biomethane, impurities such as volatile organic compounds (VOC), ammonia, hydrogen sulphide and other potentially harmful contaminants need to be removed. This is particularly important when waste feedstocks are being digested, as the biogas produced can contain high levels of these contaminants that are removed by activated carbon filters.

Accurate monitoring of these filters is necessary to determine when they are becoming saturated. This allows optimisation of maintenance schedules, maximising replacement intervals for the activated carbon whilst ensuring contaminants do not break through and damage the separation membranes.



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Solution & Benefits

TPI has selected Camlin's BioSpec VOC online monitoring system to assess contaminant levels in its biogas upgrading plants. TPI's Michele Iorio describes the benefits of BioSpec VOC over conventional biogas monitoring solutions:

"Compared to other technologies such as gas chromatography, the BioSpec VOC analyser has the advantage of not requiring any carrier gas consumables for measurement, yet it has the ability to measure individual contaminants in the biogas to the required lower detection limits. BioSpec VOC is the ideal solution to solve the problem of volatile organic compounds and other contaminants in biomethane plants."

About BioSpec VOC

BioSpec VOC offers accurate real-time detection and measurement of individual contaminants in biomethane plants, such as specific ketones, terpenes, ammonia and hydrogen sulphide. It provides assurance that these impurities have been removed by the activated carbon filters in the upgrading process.

Unlike other gas analysers, BioSpec VOC does not require any carrier gases and has zero sensor drift; this avoids the need for frequent recalibration and periodic sensors replacement. As different components can break through the filters at different rates, by measuring individual components, BioSpec VOC enables action to be taken quickly on filter replacement, preventing costly damage to the separation membranes.

"BioSpec VOC is the ideal solution to solve the problem of volatile organic compounds and other contaminants in biomethane plants."

Michele Iorio, Tecno
Project Industriale

Find out more

tecnoproject.com
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