

AMMONGAS FACTORY VISIT

Vapor Quality as Compressor
Protection





In November 2022, we visited one of our customers Ammongas, who is delivering the control system for a biogas plant near Haderslev in Denmark.

They have successfully used Vapor Quality sensors for the past 2 years and eliminated compressor damages. The problem is water from the fermentation entering the compressor and causing damage to the lubrication system.

Previously biogas plants were foul in smell, but nowadays the new plants emit less odor than a small regular farm and should not be feared. The new plant is not leaking, and all the waste products are under control because they are valuable.

This is not a typical application for Vapor Quality sensors, a sensor that is normally only found in refrigeration systems and heat pumps. In the biogas application, the sensors are installed in a hazardous area due to the risk of leaking methane.

The Biogas plant makes two products: fertilizer and biogas.

The new biogas plant is a circular process - meaning they will pick up the unprocessed organic products, mainly manure and straw from farmers, and return fertilizer with controlled nutrients.

This product is very good for the environment as it allows the farmer to optimize the fertilizing of the soil and pollution of the sea and groundwater can be avoided.



The biogas is compressed and sold to the national gas distribution system where it replaces fossil natural gas. In 2021, Biogas contributed to more than 20% of the national gas consumption in Denmark and the plan is to bring this value up to 70% by 2030.

The gas is used for industrial processes, transport, heat, and power.

Whilst having Vapor Quality installed on their compressor, they have experienced that the sensor will alarm them if water is present. The Vapor Quality sensor is used on other biogas plants, and they have experienced the same results.



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