

Client



Location

Sanford, NC, USA.

Application

Wastewater Treatment Plant
Monitoring

Problem

Hydrogen Sulfide (H_2S) gas also known as a 'sewer gas' is a major pollutant at wastewater treatment plants.

Even in low concentrations H_2S has a pungent rotten egg odor and is a highly inflammable gas. It has adverse health effects on the workers and nearby citizens.

The authorities of Sanford wastewater treatment plant face odour pollution due to H_2S gas, and nearby residents often called the city to complain about the smell. Without the sensing capability, the plant operator had to wait until they heard from unhappy residents, and then they would apply chemicals to treat the levels of the gas.

As a result, it became necessary for the plant authorities to monitor and control the H_2S gas in order to deliver higher quality services. With the sensing device from Oizom, the plant authorities can configure precise sensing levels and alerts when threshold levels are exceeded without having to go to the field to monitor or calibrate the sensors.

Oizom Solution

To understand the trends and changes in H_2S gas, Metersys partnered with Oizom to deploy an H_2S monitor at the wastewater treatment plant in North Carolina, USA. The concentration of H_2S gas may vary in presence of other gases such as NH_3 , CH_4 , etc. Oizom offered a customized device that was able to measure the H_2S gas concentration with great accuracy and precision.

The device continuously monitored the H_2S concentration at regular intervals and the real-time data was shared with the authorities through Oizom's online data service portal. The data helped Metersys understand the concentration trends through different phases of the wastewater treatment process.



Impact

The data and trend analysis shared with Metersys provided them with useful insights to work on the design of an optimum H_2S suppression system for the wastewater treatment plant. Moreover, the data was also used to monitor the gas concentration in case it exceeded the prescribed concentration limits.

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