

FRONTLINE SAFETY CASE STUDY



# NATURAL GAS (METHANE)

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## WHAT WAS THE HAZARD?

Our client manufactures thermal batteries, which are integrated into defence systems and aircraft. They use multiple boilers to produce heat for the factory and production. They have had a few gas leaks in the plant room and have no detection system in place to detect any issues. The gas hazard is natural gas (methane).

## PROBLEM IN MORE DETAIL

They came to Frontline looking for a cost-effective solution to monitor ten boilers and the ambient air around the boilers. The gas detection solution was to be installed in the plant room, with a temperature of around 25 degrees Celsius.

## AT A GLANCE

### Challenges

- Multiple sample points
- Moisture build up in filter units
- Faults in sample flow system

### Benefits

- Less chance of leak going undetected
- Cost-effective solution
- Lower cost of ownership than traditional solutions

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## WHICH SOLUTION AND WHY?

We commissioned and installed a gas detection system that detects a gas leak at each burner and around the area of the burners.

Our selected control panel systematically checks each boiler by pulling a sample of the ambient air through a 6mm tube for a specific period.

A reading is taken from each boiler by just one single sensor. This reduces the cost of replacement sensors and the overall cost of ownership due to a reduction in calibrations.