



# Live flare stack Offshore Inspections

**£4 Million saved daily\***

as the shutdown, traditionally required  
for rope access, won't be necessary

## AT A GLANCE DETAILS

**Company:** Flylogix and Innovair

**Location:** United Kingdom

**Industry:** Oil and Gas

**Activity Type:** Offshore  
Inspections

## BENEFITS

- £4 Million saved daily
- Flare stack operations don't need to be paused during inspection
- 98% CO2 emission reduction compared to traditional methods.
- Zero risk of personnel in danger from inspections due to full replacement through drones.

\*According to PwC report

"Unmanned aviation has the potential to radically change how we operate in remote environments. By removing people from high-risk areas and operations it increases safety and efficiency. It can reduce carbon emissions by up to 100 times (compared to manned vehicles) and is much more cost-effective overall than the methods used to date for things such as offshore monitoring and maintenance. Every operation is piloted from the shore and monitored centrally, with real-time data and insight."

## ISSUE

Traditional inspection methods for live flare stacks on offshore platforms are both complex and risky. Typically, these structures are inspected by workers using rope access techniques, which means they have to physically climb high structures to carry out the inspection. This not only requires shutting down operations, which is incredibly costly, but also puts the workers at significant risk of accidents due to the height and the extreme heat of the flares. Furthermore, because these flare stacks are part of a system that continuously burns off flammable gas, any interruption to their operation, like the one necessary for rope inspections, can lead to a buildup of gas, posing additional safety risks and potential financial losses. In essence, traditional methods are slow, expensive due to the downtime required, and carry inherent risks to human safety.

## SOLUTION

Drones are now being employed by companies for offshore inspections, enabling pilots to operate safely from shore while drones perform complex data collection tasks over the sea. Flylogix and Innovair are conducting BVLOS flights for methane monitoring over North Sea platforms

## BENEFITS



### Cost Savings

Drone inspections of live flare stacks save up to £4 million a day by avoiding operational shutdowns, reducing the financial burden of maintenance



### Improved Safety

By using drones for inspections the need for human workers to engage in high-risk activities is significantly reduced.



### Enhanced Efficiency

Over 20 flights per platform in two weeks, reducing inspection times.



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