



Reduce Downtime



Reduce Environmental Impact



Improve Safety

OFFSHORE DRILLING

INSPECT AGING PLATFORMS WITH OPTICAL GAS IMAGING

THE CUSTOMER'S CHALLENGE

The offshore oil and gas industry faces some unique challenges. Due to advances in geology and drilling techniques, many older, aging platforms are forced to extend beyond their designed lifespan and continue production. In addition to asset management, the industry is under pressure to meet methane emissions reduction targets, which in some cases are self-imposed. These can be influenced by organizations such as the Oil & Gas Climate Initiative (OGCI), a coalition of the largest oil & gas companies. The key challenge here is measurement of fugitive methane releases to determine a baseline measurement that future reductions can be assessed against.

THE SOLUTIONS

Thermal imaging technology can be critical for asset management and safety of a platform. Optical Gas Imaging (OGI) is ideal for finding the smallest of leaks before they become large ones, as well as detecting mechanical issues before a failure. An OGI solution, such as the FLIR GFx320 combined with the QL320 for quantitative leak monitoring, can easily and effectively help users pinpoint and quantify fugitive gas leaks – even when fixed-point detectors cannot pick them up due to wind direction. Not only can the GFx320 be used for OGI, but due to its dual-use capability it can also be used for electrical and mechanical inspections. The FLIR T530, a handheld portable camera, is an alternate, easy, and fast way to find any hot spot or potential failure. With the addition of the FLIR Q-Mode feature, users can easily record files in the camera for post-quantification, which is essential in hazardous locations.

THE RESULTS

OGI can help oil and gas companies avoid costly shutdowns and prevent safety hazards, such as gas explosions. Through regular thermal inspections, offshore drilling companies can rapidly detect and locate fugitive gas leaks that could cause a potential platform shutdown. In the case of unmanned platforms where there has been a fugitive gas leak, OGI has even been used on approach by a helicopter to ensure that the flight path approach is not within the fugitive gas plume. Thermography inspections can help prevent failures where potentially flammable fluids and gases could escape, reducing the risk of safety and environmental issues.

For more information about FLIR in the oil and gas industry or to schedule a product demonstration visit: www.flir.com/oilandgas/extraction-production

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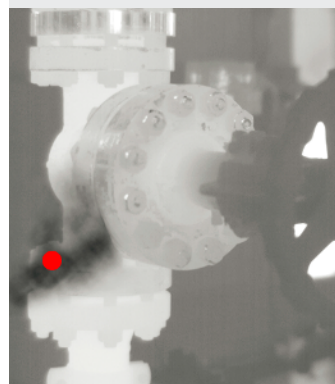
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The oil and gas industry is under pressure to meet methane emissions reduction targets. The key challenge is measuring fugitive methane releases to determine a baseline that future reduction requirements can be assessed against.



Optical Gas Imaging can help users detect and locate fugitive gas leaks early to avoid a potential platform shutdown.

