

# CASE STUDY: OIL AND GAS

## QATAR GTL PLANT



The world's largest gas-to-liquids (GTL) plant located in Qatar commenced operations in 2011 and covers an area of around 220 hectares. It receives feed gas from two offshore platforms approx 60 kilometres away.



### Requirements

The purpose of the Intrusion Detection System (IDS) was to identify and record any attempted unauthorized entry to the GTL site as well as to restricted areas within the site. The client required a high level security system for this plant comprised of perimeter protection, closed circuit TV surveillance, and incident recording.

As this plant is located in harsh remote coastal desert conditions, a robust and durable intrusion detection system capable of clearly identifying intrusions from the environmental background signals without generating nuisance alarms as well as provide continuous operation with maximum availability under all plant operating conditions was required.

### Our Solution

After a detailed global investigation and evaluation of all available technologies, the FFT Secure Fence™ system was selected to protect this critical site.

The IDS covers the entire 7km plant perimeter and all of the entry and exit gates. It identifies and locates any intrusion attempts, comprising climbing, cutting, jacking or likewise of the perimeter fence. In case of an intrusion alert, the intrusion detection system has to communicate with the CCTV system and indicate the location of the intrusion attempt through high level protocol messages. The CCTV system then activates the cameras closest to the alerted point for visualization on screens and logging.



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