

Tank storage

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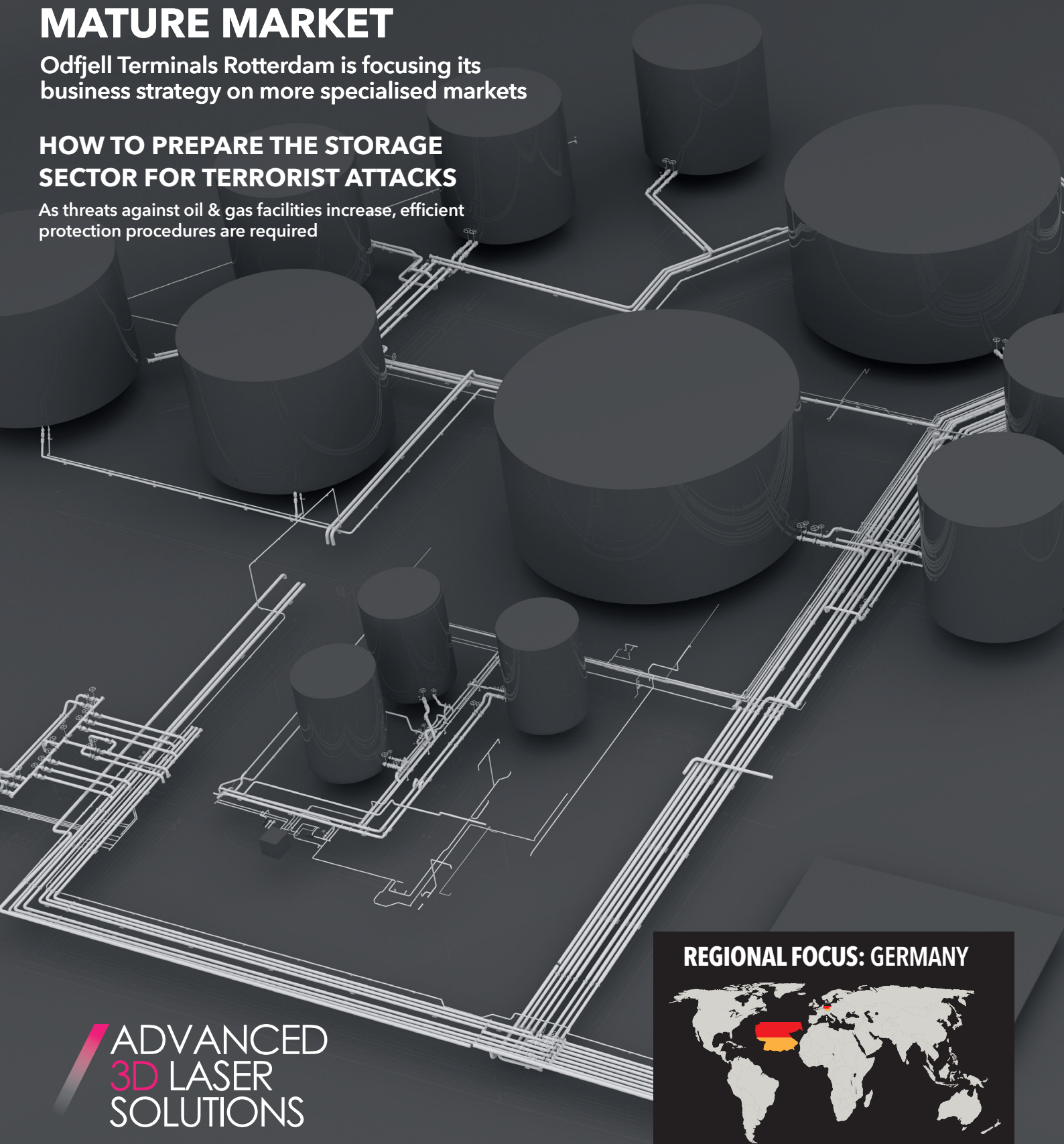
MAGAZINE

EXCELLING IN A MATURE MARKET

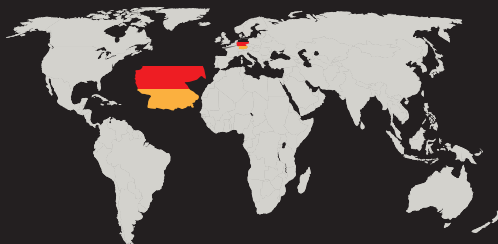
Odfjell Terminals Rotterdam is focusing its business strategy on more specialised markets

HOW TO PREPARE THE STORAGE SECTOR FOR TERRORIST ATTACKS

As threats against oil & gas facilities increase, efficient protection procedures are required



REGIONAL FOCUS: GERMANY



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The voice of the storage terminal industry



A MODERN APPROACH TO FIREFIGHTING



Serving approximately 65% of the Greek oil products wholesale market, Hellenic Petroleum sought to enhance its Aspropyrgos refinery with an upgrade of its firefighting monitors.

Hellenic Petroleum’s core activity is refining, with the Aspropyrgos refinery being one of the group’s largest facilities and it is one of the company’s three domestic and coastal facilities. Since its creation in 1958, the refinery has undergone a series of notable upgrades, making the Aspropyrgos facility one of Europe’s most progressive and up-to-date refineries producing petroleum products in line with Europe’s high standards.

In the last five years, the refinery was able to achieve 99.3% operational availability and as such attained outstanding performance. In addition, the exceptional performance ensured a significantly low number of main units’ downtime. The performance enhancement initiatives employed at the refinery delivered increased efficiency and economic benefits for Hellenic Petroleum and set the scene for the successful connection of the refinery with the natural gas network.

One of the more recent upgrades included the revamping of the water/foam firefighting monitors installed at the Aspropyrgos pier. Firefighting monitors are often positioned at strategic locations within the terminal/refinery because they can deliver large amounts of water and or foam to remote targets. The monitors are ideal for highly demanding installations such as jetties, harbours, refineries, chemical and offshore installations and they are suitable for sea water and water/foam solution.

The project involved the supply of three high flow 6” electrically operated water/foam firefighting monitors, operated by two local consoles plus a wireless controller.

The monitors have been installed on either 26m high or 10m high structural platforms on the piers handling LPG and crude products as part of upgrade of the existing firefighting system.

Hellenic Petroleum procured the firefighting monitors from SA Fire Protection, which delivered the electric monitors with emergency hand wheels and electric jet/ fog nozzles, a power supply unit, control stations, wireless console, JB, wireless receivers as well as the relevant supporting engineering.

The monitors were designed to be able to be controlled through their own control panels or using a wireless console.

Due to the highly explosive nature of the liquids and gases

present at the Aspropyrgos refinery, the remote-control panels supplied were suitable for hazardous area zone 2 group II B T3, with the junction box being suitable for hazardous area zone 1.

The remote-control panels were designed to give the operator full control of various functions on the firefighting monitors, which can be controlled by any local control panel as well as from the wireless console.

With increased safety taking precedence, the portable control unit was designed to give Hellenic Petroleum operators the ability to control all the firefighting monitors from the single unit.

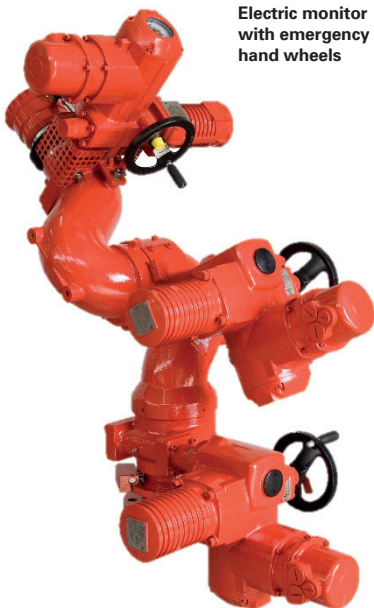
The firefighting operator can control any of the monitors supplied with an easy to use selector switch. In keeping with the modern facility, the wireless consoles can automatically connect to the nearest receiver. To further increase the capability of the firefighting operators using the wireless controls, the wireless console was designed to be able to also control the water/foam valve, allowing the operator to select their preferred extinguishing agent.

FOR MORE INFORMATION

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Electric monitor - Niagara series



Electric monitor with emergency hand wheels



Ariel view of the Aspropyrgos refinery, Greece