

Project  
reference

# Jubail Export Refinery, Saudi Arabia

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Siqura is part of TKH Security Solutions, a division of the TKH Group. TKH Security Solutions offers a wide range of systems for access control, surveillance, intrusion detection and video management.



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# Jubail Export Refinery, Saudi Arabia

When two of the world's biggest oil companies decide to build an export refinery on the Gulf coast of Saudi Arabia, you can bet they won't settle for half measures. Led by Satorp, a joint venture established by Saudi Aramco and Total, construction of a highly advanced \$9.6bn plant began in 2009 and continued around the clock until it was finished in 2013.

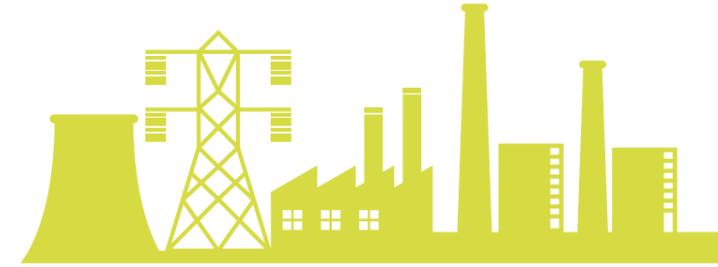


400,000  
BOE per year

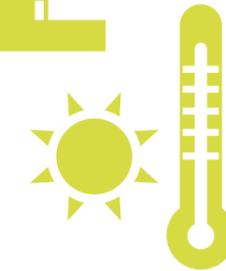


240

C620  
IP encoders



26 integrated  
manufacturing  
plants



high temperature  
50°C/122°F

#### Customer

Satorp (Saudi Aramco Total Refining and Petrochemical Company)

#### Systems integrator

SAS Systems Engineering

#### Technology

IP-based video surveillance

#### Market

Marine, Oil & Gas

#### Challenge

Providing an open video encoding solution for a large oil refinery

#### Solution

Siqura's C620 E video encoders

#### The challenge

Satorp's new export refinery is located in Jubail, the largest industrial city in the Middle East. Covering 1,200 acres, the plant is so extensive that only an intricate combination of intrusion detection, video surveillance, access control and fence alarm systems can offer adequate protection. However, integrating a large number of subsystems is never easy. All components need to work together seamlessly for the system as a whole to be effective.

Siqura enjoys a strong reputation for its open-technology surveillance solutions. It also has a deep understanding of the local market, having worked with Saudi-based companies such as Saudi Aramco, Sabic, Chevron, Saudi Electric Company and Ma'aden. Based on these two factors, Siqura was asked to provide a video encoding solution for Satorp's surveillance system.

#### The solution

Together with systems integrator SAS Systems Engineering, Siqura implemented its environmentally hardened C620 E video encoder to convert Satorp's analogue video signals into a range of digital streams (two H.264 and two MPEG-2/MPEG-4/MJPEG streams per encoder on a total of 240 encoders). Tests were run to ensure integration with a third-party video management system. This posed no difficulty as the C620 E is based on Siqura's Open Streaming Architecture (OSA) API, a set of open communication protocols. The encoders are also fully compliant with ONVIF Profile S, a widely used industry standard for trouble-free interoperability between products of different makes.

Today, security at Jubail Export Refinery is very tight indeed. Thanks to Siqura's open technology, alerts generated by the plant's subsystems can now be visually verified.