

Binh Son Refining & Petrochemical Improves Cybersecurity with Honeywell

Case Study

“With Honeywell Managed Security Services our security updates are today better managed and kept up to date. We would like to attain next higher level of cyber assurance and we are looking to Honeywell’s support to drive towards the objective.”

Lương Thái Hà, Deputy General Manager, R&D Division
Binh Son Refining and Petrochemical Co., Ltd

Background

Binh Son Refining and Petrochemical Company Limited (BSR) is a member unit of Vietnam Oil and Gas Group (PetroVietnam), which is responsible for receiving, managing and operating Dung Quat Oil Refinery Plant. Their pioneering role lays the foundations for the development of the petrochemical industry in Vietnam and to train high quality human resources in this field.



Dung Quat Refinery Plant

Located at Dung Quat Economic Zone of Binh Son district in Quang Ngai province, BSR's processing capacity has reached 6.5 million tons of crude oil per year, with future expansion plan for upgrading to 8.5 million tons.

BSR is a national key project with a total investment capital of over US\$3 billion. Producing at 148,000 barrels per day the success of the Dung Quat oil refinery is key to the nation's energy security, contributing to the country's industrialization and modernization.

Challenge

The last 5 years have seen relentless cyber attacks with greater intensity on the industrial automation sector. These range from theft and industrial espionage to terrorism and hostile state action.

BSR, a long time user of Honeywell systems, has been with Honeywell's Managed Industrial Security Services (MSS) since 2010. The MSS has helped reduce the risk of security breaches in BSR's plant by providing ongoing monitoring of the site's Process Control Networks (PCNs).

However, being a critical national oil and gas infrastructure, BSR sees the need to go beyond just maintaining status quo but to further strengthen and fortify her current cybersecurity protection measures.

In 2016, BSR set out to enhance her cybersecurity posture further by bringing her PCNs in-line to global industry cybersecurity standards.

BSR's R&D consulted with Honeywell's cybersecurity experts on what further counter-measures are needed to elevate to the next higher level of cyber assurance and requested Honeywell's support to drive towards the objective.

About Honeywell's Managed Industrial Security Services

In today's world, cybersecurity is necessary to ensure critical automation systems remain safe and fully operational. However, implementing cybersecurity controls is a very technical and labor intensive task. Honeywell's Managed Industrial Security Services are designed to take this effort off the task list of process control engineers and put it into the hands of industrial cybersecurity experts, at a fraction of the financial investment.

About Secure Media Exchange

Honeywell Secure Media Exchange (SMX) reduces the cybersecurity risk and operational disruption by protecting the use of USB removable media. SMX protects industrial sites against current and emerging USB-borne threats through its repository of the Advanced Threat Intelligence Exchange (ATIX).

Solution & Benefits

With Honeywell's MSS, security updates in BSR's PCN are today better managed and constantly kept up to date. And with the MSS's Secure Connection, an authenticated and encrypted Virtual Private (VPN) for Honeywell dedicated support engineers as well as Honeywell subject matter specialists to remotely troubleshoot security and maintenance issues, the site has seen reduction of downtime and more responsiveness to issues before further deterioration.

BSR's management has expressed satisfaction with the high level of accountability of the secure remote support with its full recordings and audit-trail of all activities.

All these led to BSR's recent renewal of the MSS contract. And with the commencement of the 9th successive year of MSS, Honeywell today has further improved the services capability with the following:

- MSS are today provided from 3 Security Service Centers located in 3 geographies at Houston, Bucharest and Singapore in a follow-the-sun model for higher scalability and more friendly customer time-zone support.
- The more intelligent reporting in the form of highly interactive monthly trending reports can quickly transform statistics into actionable resolutions.

BSR has recently also implemented Honeywell's Secure Media Exchange (SMX) to further strengthen her endpoint defenses by managing USB removable media and ports against cyber risk and unauthorized usage. The user-friendly interface enables safe, productive use of removable media and provides operators with unprecedented control and visibility into the secure use of USB and removable storage.

Summary

Honeywell's Industrial Cybersecurity Solutions help plants and critical infrastructure sectors defend the availability, reliability and safety of their industrial control systems (ICS) and plant operations.

Honeywell's suite of technology infrastructure services has helped enhanced Binh Son Refining & Petrochemical in securing the various aspects of her Process Control Networks. This has ultimately contributed to improved production uptime and also stability, reliability, and safety for the complex industrial plant.



Honeywell Security Service Centers

For More Information

Learn more about Honeywell's cyber solutions - visit www.becybersecure.com or contact your Honeywell Account Manager, Distributor or System Integrator.

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