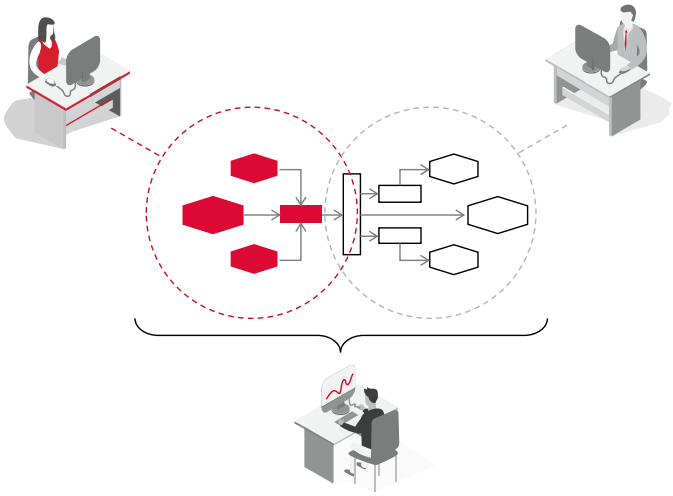
CASE STUDY

KBC
A Yokogawa Company



Refinery Increases Productivity Using the Visual Mesa Supply Chain Scheduling System

Integration of business management systems

Key Benefits

- Predict disruptive events to minimize impact
- Increased productivity and saved time

Background

- Canadian refinery
- 55,000-bpd light/sweet crude
- Integration of new acquisition business management systems

KBC Solution and Results

- Implement an integrated scheduling system for logistic operations
- Customized reports and automation of bill of lading

Client Challenge

Parkland Fuel Corporation is Canada's largest, and one of North America's fastest growing independent marketers of fuel and petroleum products.

In October 2017, they acquired Chevron Canada R&M ULC. Included in the acquisition, was the Burnaby oil refinery. This facility is a 55,000-bpd light/sweet crude refinery. It produces gasoline, diesel, jet fuels, asphalts, heating fuels, heavy fuel oils, butanes, and propane.

To fully integrate with the new parent company, the Burnaby facility needed to replace most of their business management systems. This also included their scheduling tools.

The Solution

To properly fill in process gaps, the company had to change their business operating system. They also needed a system to manage their supply chain.

Visual MESA®-Supply Chain Scheduling (VM-SCS) filled their requirements for an integrated supply chain model. It included logistic operation facilities from feedstock reception to tank yards to product shipment. Since the company was already using Visual MESA® Production Accounting (VM-PA), implementing VM-SCS was the logical choice to support their scheduling business process.

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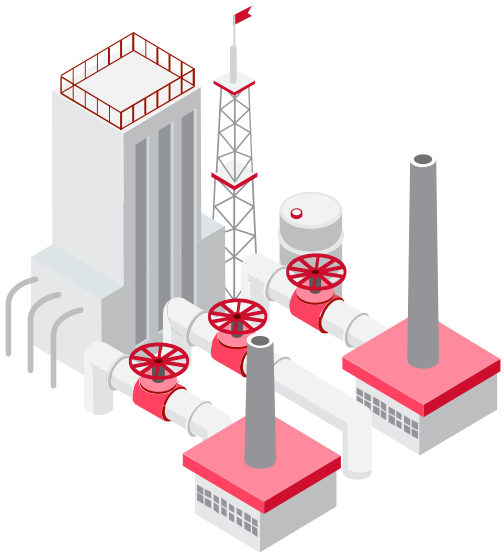

The main project challenge was to implement the VM-SCS system in a compressed timeline. Strict system migration due dates required flexibility. The VM-SCS configuration versatility was instrumental in accommodating integration with other applications still under deployment.

KBC integrated the scheduling of the marine terminal and other logistic operations (railcar, pipeline and truck) with inventory projections. This enabled a collaborative coordination of the different schedulers.

Results

As KBC put the system back online, Parkland and the Burnaby refinery bridged the gap between planning and day-to-day operations to accurately schedule and manage operations.

VM-SCS became the main application for managing the marine terminal logistics from nomination of receipts and liftings through final execution. It replaced the logistic operations management, inventory projections, and schedule feasibility evaluation.

KBC was able to integrate the VM-SCS system with JD Edwards EnterpriseOne and Aspen Demand Manager* allowing customized user views and report generation. The operator was able to run customized reports, such as the automation of the marine operations report and bill of lading which saved time and money.

The VM-SCS system allows for efficient monitoring of disruptive events by automatically checking process and logistic constraints and out-of-bound process variables, as inventory levels. By predicting disruptive events, and reacting to them with quick and precise corrective actions, the operator can now minimize the impact.

The VM-SCS system increased productivity, saved time, and reduced change of errors.

** JD Edwards EnterpriseOne is a product of Oracle and Aspen Demand Manager is a trademarked product of Aspen Technology.*

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