

Case Study Summaries

Example projects over the past two years

Global oil major, Europe

Production data visualisation

The client required a common view of real-time performance data (KPIs) at all refineries across the globe, in order to drive business process harmonisation within the company. A single user interface presents the process schematics; production, inventory and movement summaries; lost opportunities analysis and key HSE data for everyone within the organisation. The application permits substantial drill-down and analysis for problem identification. Rex works in the central technical team and has led the roll-out of this application to several European refineries.

National oil Company, Mediterranean

Workforce Automation

Rex facilitated a series of Discovery Workshops with operations, maintenance, reliability and other functions to identify areas in which the deployment of mobile workforce solutions would deliver maximum benefit. The recommendations made by Rex are now being used as the basis for a Phase I project across a number of refineries and other production facilities.

“Rex’s contribution has been extremely effective. Working as an integral part of the team to build a solution that meets our customers’ requirements; their pragmatic approach to the technology and good knowledge of our industry have been key to this success.”

National oil company, Japan

Oil refining: information systems strategy study

2 refineries required a radical upgrade to their information systems to support major business process changes driven by market deregulation. Rex reviewed business requirements, future processes, existing systems, evaluated software and services suppliers and made recommendations on the solution and implementation plan.

Global oil major, Europe

Production accounting and inventory management

Rex implemented a production accounting package and developed additional complex reports e.g. production statements, input/output statements, fuels, utility and feed cost reports.

Global chemical company, US

eProcurement integration

Our customer wished to reduce the cost of procurement by automating the purchase to pay process and improving inventory control through increased visibility. Rex designed and implemented an integration solution based on CIDX standards, connecting their global SAP system to their suppliers via Elemica. Rex continue to support the enhancement of this solution with incremental processes, additional suppliers and extending the solution to the sell-side via another eMarketplace

Global oil major, Europe

Oil refining production scheduling

Rex reviewed their refinery scheduling strategy and compared their business needs with a number of candidate solutions (existing custom, new custom and leading software packages). The study revealed that the best solution was a leading package, which subsequently became nominated as the company’s corporate solution. The refinery is now an early adopter of this package.

Global chemical major, Far East

Batch tracking application

Rex worked with the customer to design, implement and rollout this application at 2 polymer plants in SE Asia. The application allows critical quality factors to be analysed by operations personnel and provides data to support management decisions. The customer subsequently used Rex in the design and implementation of similar applications in their US and European polymer plants.

Global oil major, Europe

Oil refining blend management application

Rex helped to design, develop and implement a blend management application for several European refineries. The application is used to quantify the benefits of best practice blending processes within & across sites. A generic user interface design was used to minimise site specific development. The design proved so cost effective that it was subsequently adopted by the global oil major’s US refineries.

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Global oil major, Europe

Shift attendance management

Rex developed a custom application to manage refinery shift absence and overtime authorisation information. This functionality was unavailable in the corporate ERP payroll package and alternative HR packages offered only partial solutions which were expensive to implement and maintain. Rex designed and implemented the application in 2 phases to meet a very tight deadline of the legacy system obsolescence.

"Rex's pragmatic approach to the delivery solution plus their extensive technical knowledge combines with our industry experience to enable us to work with key customers and deliver our solution within the agreed project timescales."

World-scale chemical plant, West Africa

Information systems strategy study

The company wished to enhance operational performance at a remote plant and introduce real-time visibility of the process & KPIs from the US head-office. Rex performed a study to review all existing and potential information systems at the facility shortly after commissioning. Rex documented business requirements and made recommendations on feasibility, design, technology options and implementation strategy.

Global oil major, Europe

Oil and chemical: lost opportunity analysis

An application to analyse "lost opportunities" was implemented by Rex to minimise differences between the planned and actual operation of any refinery or petrochemical plant and drive performance improvement. The application allows the calculation and allocation of lost production for each shift on each process unit. Subsequent analysis of the lost production and associated costs identifies and prioritises those resolvable problems that are directly the result of poor operation or poor equipment reliability.

Complex oil Refinery, South Africa

Workforce Automation

Seeking to further improve its operational reliability processes the refinery retained Rex to perform a detailed Front End Study to evaluate the business and technical readiness of the facility for automating their paper based operator rounds. The Front End Study also defined the scope, project plan and costs for the Phase I roll-out of the use of a mobile Workforce Automation solution currently under way.

Global chemical company, Europe & US

Laboratory systems integration

The adoption of a new laboratory system required additional functionality to allow effective integration with a variety of existing laboratory instruments at each site. Rex designed and implemented a generic and reusable custom add-on to support this functionality as it was not provided by the product vendor. Rex also built a "sample results calculation engine" which allows lab staff to maintain complex calculated analyses based on the raw instrument test results.

Chemical distributor, Europe

Business to business integration

The distributor required a rapid, cost-effective connection to one of its major Principals (Suppliers) to improve service levels and reduce their Principals supply chain costs. Rex designed, implemented and roll-out a remote purchase to pay solution on time and within budget. The solution integrates to a trading partner either via Elemica or directly using CIDX standards depending on the business need. The Distributor was awarded significant incremental business as the Principal redeployed internal sales staff.

Global chemical company

Business to business integration

Following a referral at a global CIDX meeting, we were invited to turn around a business to business integration project which had substantially overrun in money and time. We were invited to review the status and propose a plan forward. We assisted internal resource to re-implement, test and take the application into production. The customer is now able to add trading partners without our assistance.

About Rex

Rex is an independent Consultant and Systems integrator which delivers supply chain and manufacturing solutions to the global oil and chemical sector. Rex was established in 1983 and is headquartered in the UK. (www.rexprocess.com)



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