RWE has established an effective asset management environment using real and near real-time integration of operational, maintenance and commercial data to optimise operations and maintenance of their own and clients' power plant assets. Case studies include:

Case study 1

RWE performed an information systems risk assessment project for the 1,300MW oil-fired Hub River power station in Pakistan.

Based on the current plant needs, business strategy and KPIs this study identified specific technology, application and organisational changes which made the stations information technology investments match their needs.

One benefit was the exploitation of operational data to maximise income and meet the conformance criteria of the Power Purchase Agreement.

Case study 2

RWE has supplied and installed the software for an Electronic Dispatch Logging (EDL), declaration and compliance monitoring system installed at several power and desalination plants in Abu Dhabi, UAE.

EDL enables each plant to balance water and power production through operational controls and compliance to support security of supply.

EDL – RWE's Electronic Dispatch and Logging application

Case study 3

14GW of power generation plant in the UK rely on the RWE designed PRISM integrated work management systems.

PRISM systems guide maintenance at the 4,000MW Drax power station, the largest coal-fired power station in Western Europe.

PRISM – RWE's Computerised Maintenance Management System (CMMS)

Case study 4

RWE's Electronic Dispatch and Logging (EDL) and Integrated Load Management (ILM) applications ensured that a North American utility maximised its trading potential, while remaining adaptable to the changing market requirements.

ILM – RWE's Integrated Load Management application

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Implementing advanced Information Systems is one of a wide range of capabilities that RWE Power International can offer to the power and mining industries. For more information please contact us.

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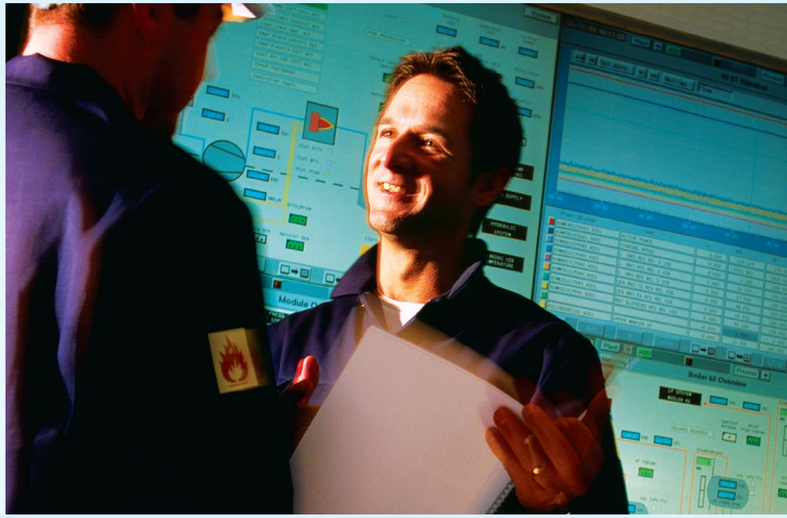
RWE Power International



Real-time asset management

Harnessing the power of real-time information technologies to deliver effective asset management solutions

RWE
The energy to lead

Power generation and mining experts

RWE Power International's specialist services cover every aspect of owning and operating power plant, from construction, commissioning, operations and maintenance, to eventual decommissioning. Our mining expertise covers minerals and solid fuels and spans exploration, development, operations and rehabilitation.

We have a great depth of operations and engineering knowledge and practical experience as an asset developer, owner and operator. As part of the RWE Group, we can call on the capabilities and resources of one of the world's leading multi-utility companies. We combine global reach with local understanding to provide innovative solutions that enhance the performance and profitability of any power generation or mining asset.

With clients in more than 70 countries around the world, our expertise spans the full range of electricity generation technologies, fuel sources including hard coal, lignite, oil, gas, nuclear, and mining methods.

A shared history of innovation

RWE Power International is a collaboration between two companies within the RWE Group, RWE Npower plc and RWE Power's consulting subsidiary, RE GmbH. We have a proud history of innovation, shared between RWE npower and RE. Our experience of transforming state-owned power utilities into commercially focused private organisations was achieved by adopting cutting-edge, innovative operating and engineering solutions. Our mining services are based on more than 40 years of developing and running lignite mines, and include large-scale groundwater management, reclamation and environmental services.

Real-time advantage for asset management

RWE information system technologies create a quantum shift in the data available in real-time to make key operating decisions. They create the potential for new levels of flexibility, reliability and efficiency in effective asset management. With these information and technology solutions, supported by our expertise in their application across all types of plant assets, we can help you operate more competitively and more profitably.

Designing an information management strategy for power generation

We have a rich pool of experience in devising appropriate strategies for individual power plants or portfolio operations, managing the programme of change and implementation that turns systems into results.

We can conduct strategic reviews of current information systems and identify solutions that align best to the specific drivers of your business. Our engineers will design and implement change programmes that engage the staff who will be using the new information management system technologies, adding value to the process through the transfer of expertise.

Flexing your plant more effectively

RWE Operational Information Systems based on OSIsoft Inc., PI operational data historian, provide 'real-time' guidance on optimising the balance between engineering risk and reward when operating your plant flexibly.

RWE Operational Information Systems include plant life and damage assessment tools to monitor the effects of plant cycling and to meet commercial pressures, optimising efficiency and minimising plant damage.

Faster, more accurate commercial compliance

In a competitive market it is commercially vital that the dispatch process of generating plant and the measurement of compliance against contracts is accurate and timely. Our Electronic Dispatch Logging (EDL) system co-ordinates the communication of instructions between the system operator, energy traders and the power generator.

Our Integrated Load Management system (ILM) provides the tool to track compliance using algorithms that reflect the compliance rules. ILM monitors production output against contract requirements and assists the operator in managing production efficiently.

The system provides an auditable record of dispatch and production.

Optimised maintenance programmes

Under constant pressure to reduce costs, operators have to be confident that their spend on maintenance is targeted effectively and integrated optimally with general plant operation.

PRISM is a maintenance management system developed by RWE to combine good safety and contract management practice with significant savings in time and money.

The system can be adapted to the specific needs of any plant and covers the life cycle of fault and preventive maintenance, including management of tools, analysis and budgets.

Creating a more dynamic work culture

One of the most profound effects of sophisticated information systems is the access they can give to information for staff at all levels. Plant engineers and energy traders can exchange and use the same information in real-time. The integration of the plant control soft desk and networks with the business infrastructure allows information to be available to whoever needs it, creating a dynamic work environment. Decision making is delegated to the people best placed to react quickly in any given circumstance, producing commercial benefits for your organisation.

The cultural impact is very positive: where staff are involved in the implementation of the new systems, they assume ownership and deal responsibly with the added decision making power it gives them.

Open to change

A feature of RWE's information management system technologies is their ability to build on previous generations of software technologies and in turn to be capable of further development and upgrading. Experience within our own operations shows that these system technologies encourage a spirit of innovation among staff at all levels – further accelerating progress