RWE’s expertise in plant performance include:

Case study 1
RWE installed operational information management systems across the entire fleet of a large North-American generator.
This enabled our client to optimise maintenance and operational functions, improve plant reliability and flexibility, reduce fuel costs and demonstrate environmental compliance. It is estimated that earnings enhancement of €14 million will be achieved over a three year period.

Case study 2
RWE’s Y2KSM work management system is installed across our fleet and has consistently demonstrated optimal maintenance costs, resulting in enhanced flexibility and reliability. The system directly contributes to enhanced earnings of €21 million a year.

Case study 3
RWE carried out a flexibility study on a 600MW oil-fired power station in North America. This study identified considerable savings that could be achieved on cold starts.
There was an 8-hour reduction in the time of cold starts and a potential 4-hour reduction in hot starts. This resulted in an overall reduction of start-up costs of over 40%.

Case study 4
The RWE Air Ingress Survey has helped power stations reduce their boiler losses through more focused outage maintenance.
At Aberthaw power station, UK, at least €700,000 per year has been saved on boiler losses as a result.

Case study 5
RWE engineers have transformed Didcot A from a conventional base load generator into an aggressively cycled plant making up to 750 starts a year.

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Optimising plant performance

Proven systems and techniques to achieve greater flexibility, reliability and efficiency of power plant operation
Power generation and mining experts

RWE Power International’s specialist services cover every aspect of owning and operating power plants, 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, and rehabilitation.

RWE Power International’s specialist services cover every aspect of owning RE GmbH. We have a proud history of innovation, shared between RWE npower 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 consultancy 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 profitable balance between risk and reward to optimise plant performance.

Optimising plant performance

RWE has the resources and expertise to help power producers operate more profitably in liberalised and regulated energy markets. Through the implementation of sophisticated information and control systems, linked to workflow-oriented techniques, our teams of experts can help your plant achieve levels of performance that will ensure optimum returns from the value available. Our systems also drive a culture change, sharing information between operating, engineering and trading disciplines, to build a more innovative, better motivated workforce.

It’s a fully integrated approach. Plant flexibility is required to respond to varying levels of demand and price. Reliability to meet contracted supply. Efficiency to control costs. We will review your current plant condition, examine levels of system imbalance, and advise where best to invest for the most profitable balance between risk and reward to optimise plant performance within the actual market conditions in which you operate.

Capturing value flexibly

RWE’s expertise enables operators to take daily fluctuations in pricing and demand. Our information management systems allow plant to be operated in the most commercially advantageous manner. We have successfully introduced long-term, cycling regimes for large coal-fired and CCCT power plants, utilising a range of systems and technical expertise to minimise the engineering deficit that accompanies plant cycling.

These systems deliver higher returns on actual generation, while taking into account the associated costs of repeated startups and long-term plant degradation. Managing reliability for profit. Reliability has a value. It also has a cost that can be measured in startup energy needs, the engineering deficits imposed on the plant, and the commercial losses associated with failure to meet contractual supply. With years of experience in power plants, RWE has developed information management systems and operating procedures which improve the management of reliability. Taking account of the full picture of revenues and costs.

Our systems provide both your trading and operating teams with the information they need to take the decisions that best suit your business to capture the greatest value in the market at the lowest overall costs.

Making efficiency pay

RWE efficiency services can reduce operating costs and increase the profitability of your generating plant. Drawing on our experience with many types of power stations, supplying electricity either within very different business environments, our specialist engineers will assess the current condition and future potential of your plant and introduce measures to increase its efficiency.

Our efficiency audits validate the implications for your plant of varying your fuel diet. We can also help you to specify fuels that will deliver your target generation costs, while still maintaining plant safety and environmental compliance.

Savings things differently

Optimise performance is as much about the attitude of your workforce as the condition of your plant. RWE has developed programmes of training and change management that will help your staff to work more effectively in this new operating environment. The programmes create a fuller understanding of both the technical and commercial challenges of power generation in today’s markets. More flexible operating systems and advisory systems – we can help you to introduce new technology, train your workforce and adapt your plant to perform well.

TEST Facility, along with various operational test facilities, allow us to carry out maintenance work.

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Our information management systems guide the operator through the process of plant start-up, making every start commercially efficient. They also support the trader in negotiating more profitable contract agreements, based on a better knowledge of the level of reliability of your plant.

Targeting maintenance spend more accurately

Flexible plant operation lends itself to a more opportunistic strategy taking advantage of shutdowns to carry out maintenance work.

This opportunistic strategy must be supported by accurate condition monitoring systems, and non-destructive modelling tools that will identify tasks and timeframes within which maintenance must take place.

RWE can supply and install these systems, which will identify opportunities for plant and equipment upgrades. Our techniques will allow you to control damage, time and costs, and consistently hit the time slot where generation makes greatest value in the market.

Individuals can see more clearly how they contribute directly to the business, creating a new incentive to perform well.

Synchronising plant with supply commitment

By maintaining plant design and operation procedures and introducing sophisticated software systems, our teams can help you to introduce new techniques and contract agreements. Our information management systems allow your plant to be operated in the most commercially advantageous manner.

Seeing things differently

Seeing things differently – our efficiency audits validate the implications for your plant of varying your fuel diet. We can also help you to specify fuels that will deliver your target generation costs, while still maintaining plant safety and environmental compliance.

In the future.

How to develop your plant for the future.

How to develop your plant for the future. Individuals can see more clearly how they contribute directly to the business, creating a new incentive to perform well.

RWE audit systems and monitoring processes can accurately assess the impacts on plant condition associated with any new operating regime. Our efficiency audit will also provide a menu of options for plant development, with detailed estimates of costs, along with the savings and benefits. This information can be of huge value as you decide how to develop your plant for the future.

More confident investment decisions

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