

# RWE's worldwide operations and maintenance experience is built on over 100,000 man years acquired on more than 80,000MW of power plant

**Case study 1**  
RWE's Little Barford 680MW CCGT power station in the UK has been in commercial operation since 1994.

The plant is operated and maintained by RWE staff and has achieved world-class levels of availability, thermal efficiency and environmental performance. Informed decisions are made regarding risk versus return to ensure the plant remains fully optimised.



Control room at RWE's Little Barford CCGT power station, UK

**Case study 2**  
RWE is successfully undertaking the Operations and Maintenance of the first independent power project in Greece, a 390MW Combined Cycle Gas Turbine (CCGT) station located in Thessaloniki.

Having been awarded the Operations and Maintenance contract, RWE had to mobilise quickly as commissioning of the plant was already underway.

Due to the combined efforts of RWE and newly trained staff at Thessaloniki Power, the plant successfully entered commercial operation to programme, just eight months after RWE's arrival on site.



Thessaloniki 390MW CCGT station operated and maintained by RWE

*"With RWE providing the operations and maintenance of our 58MW CHP plant, operationally we will get steam of the right quantity, at the right quality, reliability and when we want it – that's the key to our process."*

Martin Bookbinder  
Project Manager  
Bridgewater Paper Company Limited



RWE operates and maintains the cogeneration plant at Bridgewater Paper, UK

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Operations and Maintenance 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.



## Operating more profitably

Fully integrated operations and maintenance services to optimise plant performance and generate higher profits



## 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.

### Operating more profitably

Few organisations begin to rival the collective Operations and Maintenance (O&M) experience of the RWE team: over 100,000 man years acquired on more than 80,000MW of power plant.

This experience encompasses the whole portfolio of power generation: coal, lignite, CCGT, oil, dual-fuel, nuclear, cogeneration and renewables. It has been successfully applied in plant around the world.

**The measure of success is simple: greater profitability through improved plant performance at the lowest possible cost. RWE's O&M service provides a fully integrated mix of management and engineering expertise to deliver real benefits to clients.**

### Commissioning new plant efficiently

Our methodology for mobilising new power plant has been tried and tested at sites around the world. In addition to the recruitment and training of staff, it includes a pre-determined set of time-critical tasks, overseen by our high calibre engineers and managers. The whole process is undertaken in close co-operation with the contractor and plant owner, with specialist input from experts within the RWE team. Purpose-designed IT systems are introduced to provide vital control and information functions. By the time the new plant is ready to be commissioned, procedures are in place to ensure it can operate safely, efficiently and to the limits of its capacity.

### Building stakeholder confidence

RWE's O&M credentials can be important to plant owners, investors and financial institutions who want to be confident that their money and assets are being used wisely.

Our experience across the full range of power generation sources and market structures can add value at any stage in the life cycle of a power plant. We have proven techniques to mobilise the set-up and commissioning of new plant. We can help target investment in existing plant by monitoring performance, predicting damage and advising on initiatives that will show the highest returns at lowest costs.

Towards the end of a plant's life, we can also provide the O&M services to extract maximum value from the asset.

### Helping your people to improve plant performance

Successful O&M begins with people. The focus for our O&M teams is as much on the people who operate the plant, as the plant itself. Our policy is to develop staff locally, enabling them to practise safe, efficient and environmentally responsible methods of operation. Our team leaders can identify recruitment and training needs and ensure that these are delivered.

**We draw on RWE's own training resources and adapt to local cultural factors and economic conditions. Our aim is to develop a well-motivated local workforce, capable of operating your plant to the highest standards of performance and profitability.**

### Making the most of plant capacity

The goal of our operations programme is to extract maximum value from the capability of plant, taking account of environmental factors, market pressures, safety and regulatory conditions. Our engineering track record is impressive: we have substantial expertise in coal, lignite, CCGT, oil, dual-fired, nuclear, and cogeneration power plant.

Our commercial experience has been hard-won in very different operating conditions around the world. Based on the lessons we have learned, the level of integration in our O&M services is exceptional. We bring together management, technical and engineering skills to ensure plant operation matches the demands of your business strategy – in the short term and going forward into the future.

### Adding value to maintenance

RWE's maintenance practices combine preventative, predictive, reactive and opportunistic approaches to deliver performance, safety and reliability at lower cost. Our maintenance management systems seek to preserve plant value and extend plant life in line with commercial need, drawing on a wealth of accumulated information and our wide experience in plant operation.

**Our knowledge and expertise enable us to identify the best value maintenance and parts replacement services, freed from reliance on the OEM.**

In our engineering workshops, existing plant can be repaired or upgraded rather than expensively replaced. Further more, our reputation and proven competence in plant operation commands respect from suppliers, customers and regulatory bodies who all have influence on the overall performance of the plant.