



Serving Nuclear Projects

RWE Power International's (RPI) experience in the performance of nuclear plant activities include:

Case study 1

RWE has a wealth of experience in the management of international project preparation and implementation at foreign NPPs. For more than 15 years we have been one of the major companies involved in projects providing assistance on-site in the former NIS countries. Our objectives are the transfer of management know-how and safety culture.



Nuclear power plant

Case study 2

RWE has successfully carried out the assessment of technical requirements, preparation of technical specifications and tender documents, contracting and on-site management at all stages during project implementation, within a large number of different supply projects.

An example of this approach is the successful implementation of a new Computer Information System (CIS).



Main servers of Computer Information System (CIS)

This new system improves the reliability and safety of WWER NPP Units operation by incorporating modern technology that provides new functional capabilities of information processing and visualisation.

Case study 3

RWE has implemented up-to-date maintenance and outage improvement projects using inspection and diagnostic tools to enhance the performance of the plant. RWE engineers successfully managed all equipment supplies and conducted on-the-job training, seminars and workshops for maintenance and outage management personnel in non-destructive testing.



Non destructive testing device

Case study 4

Operational safety and reliability of the Units at client's premises were increased when specific projects to improve equipment (e.g. pressurizer safety valves, sump filter modules) were carried out. Implementation of a condenser tube cleaning system and a fuel loading machine control unit increased the NPP's availability factor.



Condenser tube cleaning system

Case study 5

Drawing from its vast experience in the operation, maintenance and modernisation of the NPPs within the RWE Group, RWE is engaged in the management and technical analysis of several international new build nuclear projects.

Serving Nuclear Projects

RWE Power International's specialist services cover a wide range of project management and consulting in the Nuclear power plant sector, including:

- project development
- new build
- operation and maintenance
- plant modernisation.

Furthermore, we are in the position to provide our experience in the fields of radiation protection and radwaste treatment. Having realised a number of safety improvement projects in eastern Europe, we have in depth knowledge in WWER technology and operation.

As a part of the RWE Group, we can call on the capabilities and resources of one of Europe's five leading electricity and gas companies. We have a wide range of operations and engineering knowledge and practical experience as an asset developer in the field of Nuclear energy. We operate 5 units to the highest safety standards with more than 6 GW installed electrical power.

A shared history of innovation

RWE Power International is a collaboration between two companies within the RWE Group: RWE Npower and RE GmbH (RWE Power' consulting subsidiary). We have a proud history of innovation, shared between these companies, and our specialists in the nuclear field have much experience in related plant engineering, operation, personnel training and modernisation projects.



Enhancement of safety culture and safety improvement

A main objective of RWE experts is safety improvements in the design, operation and maintenance of nuclear power plants, in order to achieve the highest safety standards.

Safety improvements are realised by the close collaboration of on-site staff and equipment suppliers to achieve know-how transfer. All efforts are aligned to establish a state of the art safety culture at client's nuclear power plants.

Increase of efficiency

During the preparation and implementation of modernisation projects, our specialists consider the increase of reliability and availability of equipment operation. The RWE professionals are always aware that an increase in stable and reliable operation of the client's nuclear power plant is closely linked with an increase in safety.

Safety improvement and effective upgrade activities lead to increased efficiency and to an improved capacity factor.

Training tailored to local requirements

Plant performance can only be optimised by qualified, well trained and highly motivated people who operate the plant. Therefore it is our approach to perform training needs analysis at the client's premises. We take into account local cultural factors and economic conditions. Our training concepts merge the results from this analysis with the high level RWE safety culture.

The aim is to develop a well motivated local workforce, capable of operating the plant to the highest standards in terms of its performance, profitability and safety.



Adding value to maintenance

The first step to improved maintenance is to conduct an analysis of the maintenance / in-service inspection needs based on the client's requirements.

Our knowledge and experience enable us to identify the best value maintenance and parts replacement services. We use our own maintenance practices combining preventative, predictive, reactive and opportunistic approaches to deliver performance, safety and reliability at reduced cost.

Furthermore, RWE's 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 the wide experience in plant operation.

Assessments for new build projects

Our approach to new nuclear power plants includes the technical assessment of the project, overseen by our high calibre engineers and managers. The whole process is undertaken in close co-operation with the contractor and the plant owner, with specialist input from the experts within the RWE NPP's.

Purpose-designed IT systems are introduced to provide vital control and information functions.

By the time the new nuclear power plant is ready to be commissioned, procedures are in place to ensure it can operate safely, efficiently and to the limits of its capacity.

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