

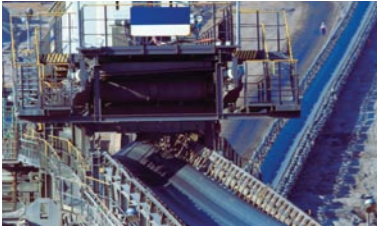
RWE's expertise cover the whole range of your mining equipment. Our experience includes:

Case study 1
As owner and operator of one of the largest conveyor systems, we contributed to the design of a large-scale downhill ore conveyor system with a 1,600m drop for a copper mine in Chile.



Copper ore processing plant in Chile

Case study 2
RWE electrical engineers planned the relocation of 80MW of electricity distribution at the Garzweiler opencast mine for the location of the conveyor distribution point.



High-speed conveyor belts at Garzweiler mine

Case study 3
Mine equipment at the Bükkabrany and Visonta lignite mines in Hungary was completely refurbished and upgraded over 5 years under the supervision of RWE mine equipment engineers.



An RWE truck transporting loess at one of our client's mines

Case study 4
RWE developed the concept, provided basic engineering and trained operations and maintenance staff for the world's largest electricity-generating downhill conveyor with a 1,300m drop over 10km.



Drive station at downhill ore conveyor system

Case study 5
RWE experts are acting as independent mechanical engineers during the erection and commissioning of bucket wheel excavators for Neyveli Lignite Corp, India.

Case study 6
For several copper mines in Chile, RWE experts have analysed the bulk ore transport systems (crushers, conveyors, reclaimers, silos) for weak points and developed a number of solutions to increase throughput to satisfactory performance levels.



Crusher at the mine of an RWE client in Chile

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Mining Equipment Engineering 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.



Mining equipment engineering

Specialist services covering the whole range of mining equipment



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.

Equipment concept studies

For any mining or bulk transportation problem there is more than one solution. These include: continuous mining methods (bucket wheel excavators), shovel and truck operations, transportation by conveyor, truck, rail, or any combination. We can determine the most appropriate concept for your mine and look at the quantity and type of material to be mined and transported, the distance and changes of elevations to be covered, and the environment in which the system must operate.

This will include climate, available infrastructure, available suppliers and workforce. Since it's the bottom line that counts, we balance investments, debt service and operating costs to provide the most cost effective solutions.

Mining equipment engineering

Special circumstances may require special equipment. Bucket wheel excavators and spreaders may have to be engineered specifically for your situation.

Our experts can develop the specifications and the mechanical and electrical design for your equipment, taking into account available materials and manufacturing skills.

Our mechanical and electrical engineers can provide an independent check and verification of an equipment manufacturer's design and choice of materials.

Bulk transportation systems engineering

Conveyor systems are integral components of many mines. Many pose engineering challenges including abrasive material, downhill conveying, overland conveying, high belt speeds and wide belts. RWE will develop the transportation concepts for you and implement the solutions.

Conveyor belt tests

As part of the RWE Group, RWE Power International has access to one of the leading and most comprehensively equipped facilities for testing the quality of steel cord belts. This is access through RWE Power, the largest operator of belt conveyors in the world.

We carry out independent verification of conveyor belt quality and strengthen the position of our clients vis-à-vis their suppliers.

Tender assistance

Bulk transport systems and major mine equipment require significant investment.

To ensure the best value for money, we can assist you throughout the procurement process. Our involvement can include drawing up and publishing tender documents, evaluating bids, recommending the most suitable bidder and assisting you during the contract negotiations.

We keep the procurement process transparent and ensure you get functioning equipment for the best price, without failures or delays.

Manufacturing and erection supervision

Your equipment has been uniquely engineered and built for your needs.

To ensure quality standards, stringent inspections are required during the various stages of the construction process.

We are independent of any equipment supplier and can undertake these inspections on your behalf.

Training

Our engineers can provide operator training to ensure the effective integration of your equipment within the production and maintenance planning process.