

Optimum availability of plant	Operating efficiency	Whole project, whole process solutions	Global supply and support	Regulatory compliance
Power generation customer needs				
Weir capability				
Superior reliability of products through engineering excellence, solution design and proprietary materials	Value engineering and continual product enhancements deliver whole-life cost-savings	Integrated Group-wide offer: pumps, valves and controls and technical support services	Geographic reach, local technical and customer support; global sourcing for best value	Safety and efficiency to meet current and pending legislation; development of new technologies



- Manufacturing site (power products)
- Manufacturing & service site (power products)
- Service site (power products)
- Sales office (power products)

The Weir Group PLC

149 Newlands Road
Glasgow G44 4EX
Scotland

Tel: +44 (0)141 637 7111
Fax: +44 (0)141 637 2221
www.weir.co.uk

Excellent
Engineering
Solutions



Our Power Generation product & services portfolio includes:

Design and Technical Services
SYSTEMS ENGINEERING

Project Management
System Design, Mechanical, Electrical, EC&I, Software
Analysis and System/ Process Modelling
Safety Assessment & Safety Case Support
Risk Management
ARM Assessment
Research & Development

Boiler, Main Steam, Superheater & Reheat Systems

VALVES
Bled Steam Non Return Check Valves
Blowoff Valve
Boiler Safety Valves
Cold & Hot Reheat Isolation Device
Continuous Blowdown Valve
Desuperheater Control Valve
Heater Drain Control Valve
Main Steam Stop Valve
Pressure Reduction Control Valve
Spraywater Control Valve (Reheat, Superheat)
Spring Loaded Bypass
Vent & Drain Valve (All Vessels and Headers)
General Non Return Valves

Auxiliary Steam & Shell Boiler Systems

VALVES
Auxiliary Steam Pressure Reduction Control Valve
Auxiliary Steam Isolation valve
Extraction Steam Check Valve
Shell Boiler Mountings

Feedwater, Deaerator & Economiser Systems

PUMPS
Main Boiler Feed Pump
Stand-by Boiler Feed Pump

Auxiliary Feedwater Pump
Boiler Feed Booster
VALVES
Boiler Feed Pump Recirculation Control Valve
Deaerator Level Control Valve
Deaerator, Economiser & Feedwater Header Safety Valves
Economizer Isolation Valve
Economizer, Compressor and Feedwater Check Valve
Main Feedwater & Start up Control Valve

Condensate System

PUMPS
Condensate Extraction Pump
Condensate Transfer Pump
VALVES
Condensate and Cooling or Make-up Water
Condensate Recirculation Control Valve
Condensate Bypass Valve
Turbine Drain Valve
Turbine Gland Seal-off

Cooling Water

PUMPS
Main Cooling Water Pump
Auxiliary Cooling Water Pump
Isolated Cooling Water Pump
Make-up Water Pump
VALVES
Seawater Intake Isolation and Non Return Valves

Reactor systems

SYSTEMS ENGINEERING
Fuel Handling Systems
Waste Handling Systems
Decommissioning Systems
VALVES
Steam Generator & Pressuriser Nuclear Safety Valve
Main steam & Main Feed Isolation Valves

Containment Area Isolation & Non Return Valves
PUMPS
Safety Injection Pump
Containment Spray Pump
Residual Heat Removal Pump
Charging and CVCS Pump
Auxiliary Feed Pump
Essential Service Water Pump
Component Cooling Water Pump
Closed Cooling Water Pump
Lube Oil Priming Pump
Reactor Core Isolation Cooling Pump
High Pressure Core Flooder Pump
Moderator Pump
Emergency Core Cooling Pump
Auxiliary Building Water Pump
SIXEP Water Feed Pumps
SIXEP Slurry Recirculation Pumps

Flue Gas Desulphurisation Systems

PUMPS
NO_x Suppression Pump
Limestone Distribution Pumps
Cyclone Feed Pumps
Absorber Recycle Pumps
Gypsum Recovery Pumps
Gypsum Transfer Pumps

Flue Gas Desulphurisation Systems

PUMPS
Rubber Lined Butterfly Valves
Knife Gate Slurry Valves
HYDROCYCLONES
Limestone Grinding Circuit
Gypsum Dewatering
ELASTOMER WEAR LINERS
Limestone Grinding Mill Liners

Coal Feed Systems

PUMPS
Coal Slurry Transfer Pumps
Gasifier Slurry Feed Pumps

Auxiliary and Miscellaneous Systems

PUMPS
Turbine Fuel Feed Pump
Turbine Inlet Cooling Pump
Potable Water Pump
Deminerilised Water Transfer Pump
Raw Water Pump
Ash Disposal Systems
PUMPS
Ash Feed Pumps
Ash Transfer Pumps
Cyclone Feed Pumps
VALVES
Knife Gate Slurry Valves
HYDROCYCLONES
Ash Dewatering

Power Station Service and Support

SYSTEMS ENGINEERING
Manufacture, Assembly & Test
Nuclear Controlled Facility Through Life Support
SERVICES
Hydro Plant Rehabilitation
Equipment Repair and Overhaul
Consolidated Maintenance
Asset Management
Process Analysis
Spare and Enhanced Parts
Process Equipment
Innovation in Materials
Specialist Technical Services:
Noise and Site Surveys
Condition Analysis
Thermometric Efficiency Testing
Laboratory Facilities
Re-design and Bespoke Engineering
Systems and Software Testing
Environmental Testing

Weir Power Generation

Leaders in pumps, valves and engineering support for nuclear, fossil fuel and renewable energy production

Excellent
Engineering
Solutions



First choice for power generation

Meeting the needs of the energy sector, worldwide

The Weir Group is committed to delivering market leading products and whole-plant solutions to meet the technical and commercial challenges facing customers in the power generation market.



Nuclear power

Nuclear operators are at the forefront of the effort to meet growing global demand for energy. The Weir Group's extensive nuclear expertise ranges from safety critical equipment design, to the supply of superior valve and pump products, through to waste management and decommissioning.



Fossil fuels and gas

The volatility of fuel costs makes operating efficiency a priority in this sector. Through superior products, service and support, the Weir Group is improving the availability and output of existing plant, from clean coal to combined cycle processes, helping our customers meet tough commercial and environmental targets.



Renewable energy

As renewable energy technologies develop in response to concern about climate change and the strategic requirements for governments to achieve a balanced mix of energy sources, the Weir Group is engaged in support of both innovative new projects and the established hydro industry.

To support our customers, we operate a single point of contact model through which you can access our Group-wide expertise through any divisional office in any region. Simply contact your nearest and most appropriate Weir Group centre via: www.weir.co.uk



End-to-end solutions for all power generation processes

New Build

- Concept / consultancy
- Equipment design
- Manufacture & testing
- Installation

Service & Support

- Annual outage & maintenance
- Asset management
- Reactive maintenance
- Repair & spares

Life Extension & Upgrade

- Technical evaluation & consultancy
- Reverse engineering
- Project management
- Enhanced materials

Waste Management

- Flue gas desulphurisation
- Nuclear waste handling
- Bottom ash handling
- Water demineralisation

Decommissioning

- Solution design
- Clean up
- Waste storage



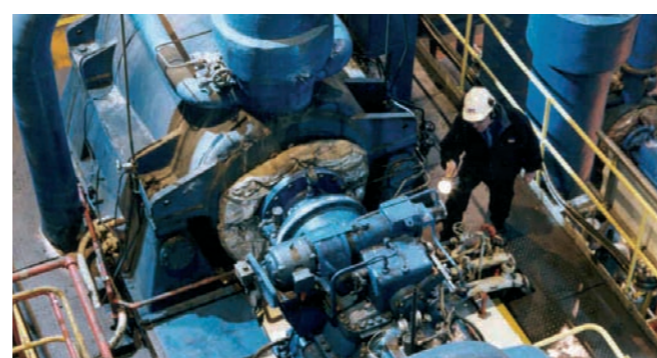
Typical hydro-power generating scheme



Inspection of Francis turbine runner for hydro power station



Goliath crane at United Kingdom Atomic Energy Authority Dounreay plant in Scotland, UK



Commissioning 500MW generator main boiler feed pumps after refurbishment



Warman type GSL centrifugal slurry pump on FGD absorber recycle duty in the USA



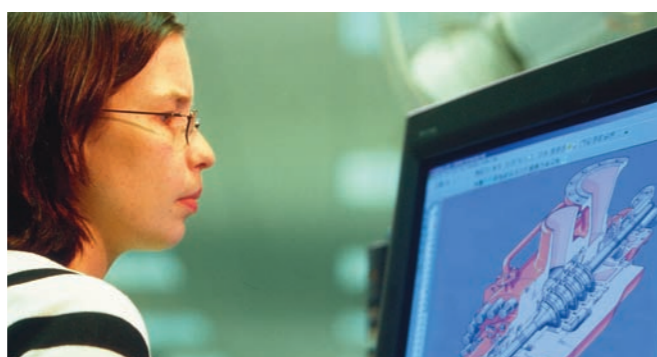
Hopkinsons - Nuclear Parallel Slide Gate Valves for LingAo Power, China



Warman type L centrifugal slurry pumps on FGD absorber recycle duty at the Prunerov Power Station in the Czech Republic



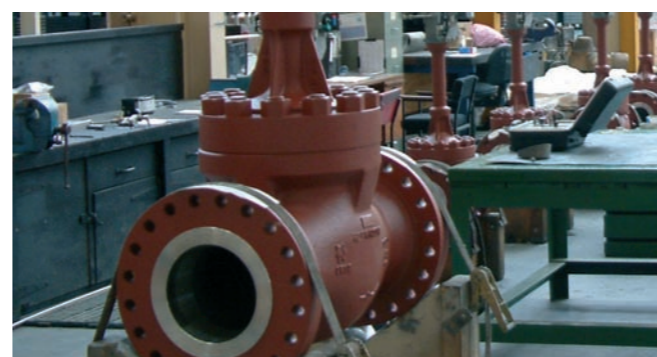
Hydro turbine top cover assembly



Weir Pumps engineer checking final assembly details on a multistage barrel pump



Weir can provide the full range of pumps and valves for fossil power plants



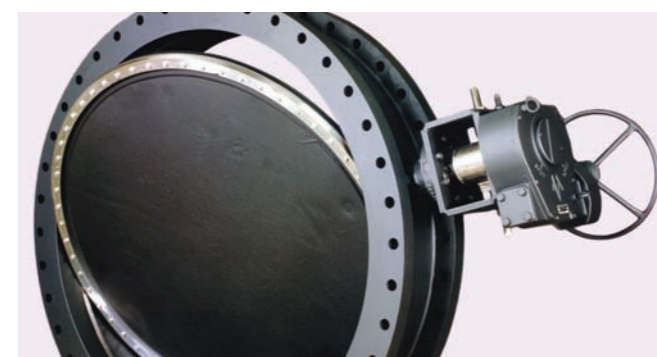
Blakeborough - Globe control valves for Guangdong Power Plant in China



Nuclear coded main reactor feed pump as supplied for Sizewell 'B' Nuclear Power Station in the UK



GEHO piston diaphragm pump transporting fly ash slurry from Bayswater Power Station to the Ravensworth Void, Australia



Butterfly valve used for various upstream and downstream applications

"Whether fossil fuel, nuclear power or renewable energy, Weir Group provides products and services to enhance efficiencies and reduce downtime at power plants around the globe. We provide internationally accredited pump equipment and safety critical valve products and flexible engineering service solutions including plant upgrades, waste management and decommissioning, bringing added value and security to power processes for all our customers."

Mark Selway, CEO