

**Murray
& Roberts**

Power & Water



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**Murray & Roberts
Power & Energy**
Engineers and Constructors

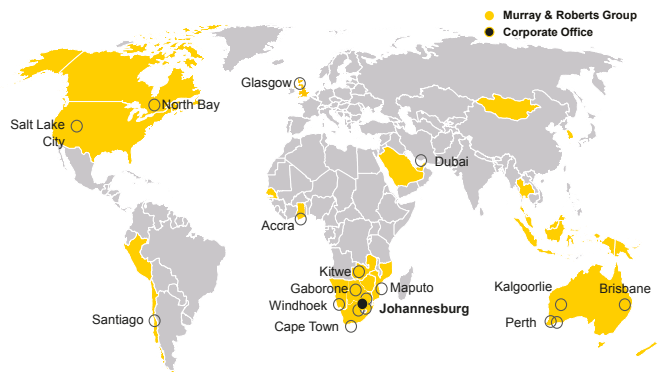
**Murray
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Water**
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Genrec



Power & Water



The Power & Water platform, which is focused on engineering, procurement, construction and management of projects, is playing a major role in building two of the world's largest coal-fired power stations, Eskom's Medupi and Kusile.

The Power & Water platform

oversees the activities of a number of companies:

- Murray & Roberts Power & Energy
- Genrec
- Murray & Roberts Water
- Aquamarine Water Treatment

The companies that comprise the platform are Engineering Procurement and Construction ("EPC") projects implementer, Murray & Roberts Power & Energy – with a focus on power and energy projects, Genrec – a steel engineering and fabrication company and Murray & Roberts Water (incorporating Aquamarine) – focusing on providing water and wastewater treatment solutions to the industrial and municipal sectors.

The operating platform co-operates extensively with other Group operations to accelerate its African penetration, prioritising mining and minerals processing as well as power sectors. Substantial opportunities exist across Africa for the operating platform in water infrastructure, waste water, acid mine drainage and desalination.

GEOGRAPHY

- Africa

VALUE CHAIN

- Project development and design
- Planning and engineering
- Construction works
- Maintenance and refurbishment

SAFETY

People remain our most valuable asset, and the safety of employees and stakeholders is not negotiable. We believe that our people and others impacted by our activities are entitled to a safe, healthy and productive life in harmony with nature.

Stop.Think.Act.24/7 is a widely recognised Murray & Roberts health and safety brand aimed at educating and motivating employees to take responsibility for their own and their colleagues' safety at home and in the work environment.

"Act" emphasises the importance of taking action to correct unsafe conditions and behaviours, as well as recognising positive behaviour, whilst "24/7" highlights the need for safety awareness at all times whether at work or at home.

MURRAY & ROBERTS GROUP

A Group of world class companies and brands aligned to the same purpose and vision, and guided by the same set of values with a common owner, Murray & Roberts Holdings Ltd.

- Infrastructure & Building
- Power & Water
- Underground Mining
- Oil & Gas

Murray & Roberts Values

- Care
- Integrity
- Respect
- Accountability
- Commitment

Murray & Roberts Purpose

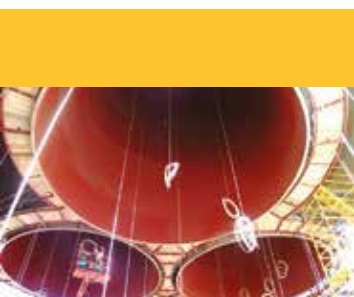
Delivery of infrastructure to enable economic and social development in a sustainable way.

Murray & Roberts Vision

By 2020 we will be a leading international diversified project engineering, procurement and construction group in selected natural resources and supporting infrastructure sectors.

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Murray & Roberts

Power & Energy

Engineers and Constructors

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ABOUT THE COMPANY

Murray & Roberts Power & Energy is a leading engineering, procurement and construction company, serving the South African and African market. Our South African offices, based in Johannesburg, South Africa, provide a leading portfolio of services to our clients, utilizing its market and sector experts, in multidisciplinary engineering, procurement and construction together with strategic global partnerships.

In order to maintain our leading market position and enhance our offering to our clients, Murray & Roberts Power & Energy is involved in the project management of the entire life-cycle of the project, ranging from conceptual design, pre-feasibility and feasibility studies, basic and detail engineering, procurement, construction, commissioning and start up, operations and maintenance (including asset renewal/refurbishment) and asset retirement.

Our EPC and SMP capabilities are focused along two sectors:

Power – Murray & Roberts Power & Energy, through collaboration with its subsidiaries operating in the Power Generation sector. Through its highly qualified and experienced technical and managerial staff and strategic technology partnerships, the company is able to provide total solutions to power utilities, Independent Power Producers, Industrial Plants and other potential clients in all technologies ranging from coal, gas, nuclear and renewable energy (particularly CSP and biomass).

Energy (Oil & Gas) – In the oil & gas sector, the company has undertaken several downstream projects, including some special applications such as modular mini-refineries and the revamping or installation of refinery units. Murray & Roberts Power & Energy are able to support projects for Sasol and nationally, through its established fabrication shop, based in Secunda.

ABOUT OUR PROJECTS

Project	Medupi & Kusile Power Stations (South Africa)
Client	Hitachi/Eskom
Description	Detailed engineering, fabrication, construction management, erection and site support of boiler units
Project	Mozal 1 and 2 and Hillside 3 Aluminium Smelters
Client	BHP Billiton
Description	Project implementation of Aluminium Smelter Programme – EPCM Services
Project	New Multi-Product Pipeline (NMPP)
Client	Transnet
Description	Heidelberg Tank Farm – Tank engineering, fabrication and erection
Project	New Hot Blast Stoves
Client	Arcelormittal
Description	Brownfields – EPC Services
Project	Mondi Pulp
Client	Mondi Limited
Description	Brownfields expansion to the Richards Bay Mill – EPCM
Project	Nchalo Off-crop Shutdown
Client	Illovo Sugar Plant (Malawi)
Description	Supply and install superheater elements, integral piping, furnace seal. Inspect and replace drum internals. Install economiser elements
Project	Octene Tanks
Client	Linde Process Plants
Description	Alpha Olefins Hexene Train 3
Project	SAPREF SPM Crude Oil Import Pipeline
Client	Shell & BP South Africa
Description	Design, installation and commissioning of the facility and involved the bottom tow of 2.8 km of 48" diameter pipeline

Asset Management – In the immediate future, focus will be more on further development and expansion of existing engineering capabilities and leveraging the opportunities in the repair, operation & maintenance area; utilising in-house resources and strategic partnerships. The JV with Worley Parsons – MWPS has been set up specifically for power plant O&M Services.

Murray & Roberts Power & Energy is committed to providing a healthy and safe operating environment and is committed to the Murray & Roberts Group Stop. Think. Act. 24/7 philosophy.

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Murray & Roberts Water

Engineers and Constructors

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ABOUT THE COMPANY

Murray & Roberts Water has the capability and expertise to undertake feasibility studies, design, supply equipment, construct, commission, operate and maintain water treatment plants in Africa, and to supply modular plants globally.

These include:

- Mine Water Treatment
- Sea Water Desalination
- Industrial Effluent Treatment
- Municipal Water and Waste Water Re-use
- Water Supply for Power Generation Infrastructure

These can be offered as large scale permanent plants or modular containerised plants with the option to scale up if necessary. The plants performance can be remotely monitored by experienced engineers and operators.

Murray & Roberts Water provides complete water treatment solutions with appropriate technology and commercial packages that are structured to meet specific client requirements such as:

ABOUT OUR PROJECTS

Project	Gold Fields Tarkwa Project
Client	Gold Fields Ghana Limited
Description	Combination of LSTK, Loan, Rental and O&M
Project	Basic Engineering Design and Pilot Tresting
Client	Newmont Ghana Gold Limited
Description	Feasibility study, pilot testing and Capex and Opex estimates on a reimbursable basis

Technology

- Lime Softening
- Clarification
- Microfiltration
- Ultrafiltration
- Nanofiltration
- Electro Dialysis Reversal
- Reverse Osmosis
- Ion Exchange
- Evaporation

Commercial

- Design Build
- Design Build Operate
- Design Build Operate Transfer
- Rental
- Public Private Partnerships
- Performance Guarantees

Murray & Roberts Water adds maximum value by developing sustainable water treatment solutions that meet our clients' needs whilst simultaneously developing local capacity through skills transfer.

Aquamarine, a Murray & Roberts Water company, is a company that designs, manufactures and installs water treatment solutions. It offers a complete customised solution, including support for and maintenance of its installations. Aquamarines' technology is ideal for small to large water treatment solutions including containerised modular plants.

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ABOUT THE COMPANY

Genrec provides a comprehensive range of services from structural steel fabrication and erection, to heavy fabrication and machining, offering clients a one-stop service.

The company covers the full spectrum of engineering, structural detailing, procurement, fabrication and construction services. Capabilities further include total project management, engineering design and detailing, light/medium and heavy structural fabrication, planning, logistics and programming to erection. Genrec has provided its services to some of the world's most recognized projects.

Situated in Wadeville, bordering Johannesburg, Genrec's facility has more than 55 000m² of undercover workshops equipped with the latest systems, CNC equipments, welding processes, as well as high volume blasting and painting resources with open areas of 19 500m². Its training facility provides development and the training of boiler-makers, detailers, operators, riggers and inspection personnel.

Working with care, honesty and integrity, respect, accountability and commitment, our team is committed to fabricating innovative steel solutions to meet our client's specific needs, on time, within specification and within budget.

Genrec is committed to providing a healthy and safe operating environment and is committed to the Murray & Roberts Group Stop.Think.Act.24/7 philosophy.

ABOUT OUR PROJECTS

Project	Medupi and Kusile Power Stations (South Africa)
Client	Hitachi and Eskom
Description	100 000 tons of fabricated steel over 5 years
Project	El Abra Copper Mine (Chile)
Client	Bechtel
Description	3 300 tons of fabricated steel over 12 months
Project	Burj Al Arab Hotel (UAE)
Client	UAE Government
Description	11 000 tons of fabricated steel over 24 months
Project	Muskeg River Oil Sands Project (Canada)
Client	Shell, Chevron, Marathon Oil
Description	6 500 tons of fabricated steel over 18 months
Project	Closed Cycle Gas Turbines
Client	Camfil Farr
Description	2 551 tons of fabricated steel over 14 months
Project	Sheik Zayeh Cricket Stadium (UAE)
Client	Abu Dhabi Cricket Authority, Dubai
Description	800 tons of fabricated steel over 12 months
Project	Carnival City (South Africa)
Client	WBHO
Description	700 tons of fabricated steel over 14 months
Project	Emirates Towers (UAE)
Client	Besix & Multiplex
Description	3 000 tons of fabricated steel over 24 months
Project	Khalifa Sports Complex (UAE)
Client	SNC Lavalin
Description	8 500 tons of fabricated steel over 18 months
Project	Aluminium Pot Steel (Mozambique)
Client	SNC Lavalin
Description	9 800 tons of fabricated steel over 14 months
Project	CMT Spinning Mill (Mauritius)
Client	Construction Management & Allied Services
Description	1 730 tons of fabricated steel over 14 months

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