

sgcaustralia
Capability Statement

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ABOUT SGC

DEMONSTRATED GLOBAL EXPERIENCE AND SUCCESS



WHO WE ARE

SGC Australia is a multi-disciplinary engineering and site services specialist, offering full turnkey solutions to clients across a range of industries and applications and specialising in the following three key areas:

- Decarbonisation
- Mobile Machines for Bulk Materials Handling
- Process Plants

We execute projects from design through to commissioning, as well as providing expertise and resources for all aspects of onsite project delivery.

SGC Australia is an Australian-owned and operated, ISO 9001 and ISO 45001 accredited company with a strong reputation for safe and efficient project delivery and service.

We have completed projects globally, with successful delivery examples in all areas of electrification and hybrid power, mining and bulk handling, and infrastructure projects.

OUR EXPERIENCE

SGC Australia Pty Ltd has experience across a broad range of projects in multiple applications, both large and small.

This diverse background provides a strong foundation for applying key learnings and intelligent design to new projects and systems.

OUR KEY COMPETENCIES

SGC Australia is a versatile organisation known for our expertise in providing complete turnkey solutions for diverse applications.

Our capabilities span across process plants, power generation facilities, pumping stations, bulk handling facilities, and cutting-edge mobile machinery solutions.

- Electrical, Control Systems and Mechanical Design
- PLC and SCADA Development
- Mobile Machine Automation
- Construction, Commissioning and Optimisation
- Panel Manufacture
- Hazardous Area Design, Audits and Certification
- Managed Services
- 3D Modelling
- Functional Safety Design, Compliance, Audits and Lifecycle Management



OUR MISSION

To deliver our projects with innovative and class leading technology, always ensuring a best practice approach as we strive to become the industry preferred Electrical, Process and Controls specialist in the mineral resources and renewables sectors.

MISSION
STATEMENT

WE ARE
GUIDED BY
OUR
CORE
VALUES

SAFETY

Committed to keeping our family safe

Creating a workplace that is focused on the health and wellbeing of our people, the environment, our customers and communities.

CULTURE

Our people are our strength

We show professionalism, initiative and enthusiasm as we uphold a culture of excellence, teamwork, collaboration and mutual respect.

PERFORMANCE

Technology is our passion

Maximising efficiency and reliability through the use of industry leading technology to produce customised, high performance systems and solutions.

QUALITY

High quality solutions without compromise

Cementing our place as an industry leader as we develop our reputation for excellence through a continued focus on quality and reliability

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OUR PEOPLE ARE OUR STRENGTH



HEALTH AND SAFETY

At SGC Australia, our safety-first philosophy is ingrained at every level of the organisation. This starts with our senior leadership team who are continuously exploring methods to lead, demonstrate and foster positive safety attitudes and practices.

Our engineers prioritise safety in the design principles by identifying potential hazards, assessing risks, and implementing control measures.

Our site teams uphold this commitment by adhering to our ISO 45001 compliant systems and processes.

PEOPLE & CULTURE

We recognise that our people are central to our success, and we are extremely proud of our team.

We aim to attract, train, and retain the very best talent from diverse backgrounds.

The wellbeing of our people is of paramount importance, and we are committed to providing a happy and enjoyable workplace for all our personnel.

Our commitment to training and development is evidenced by our graduate and apprenticeship programs.



OUR SERVICES

HIGH QUALITY SOLUTIONS WITHOUT COMPROMISE



- ELECTRIFICATION
- MOBILE MACHINES
- STOCKYARD AUTOMATION & CONTROL
- CONTROL SYSTEMS
- ENGINEERING
- MANUFACTURING
- ELECTRICAL & INSTRUMENTATION
- SPECIALIST SHUTDOWN SERVICES
- TECHNICAL SERVICES



ELECTRIFICATION



ELECTRIFICATION

As an existing leader in the electrical and controls engineering and design space, SGC Australia continues to aid our clients in meeting their ESG and decarbonisation goals whilst maintaining productive and sustainable site and plant assets. Our experience in delivering design works in compliance with end users' specifications and best practice for the mining industry ensures that new equipment or conversions, along with the necessary supporting infrastructure, meet expectations.

We focus on delivering solutions that consider the context of the Client's application and leverage our understanding of the operational requirements of mining and process facilities to ensure that the solutions provided are operable and maintainable. With our broad team covering electrical, communications, control systems and mechanical personnel, we provide design, supply, production, delivery, testing and installation to meet our clients' goals.

- Personnel with a strong background in electrical design for mining infrastructure
- Working on a range of electrification initiatives for mining applications of typically diesel-powered equipment
- Focus on considering the context and application of the solution to ensure all projects are operable and maintainable
- Familiar with the power generation requirements to provide greener energy across the supply chain in a practical and cost-effective fashion
- Broad team across mechanical, electrical, control systems to provide integrated solutions with existing systems and infrastructure

HYBRID POWER

The demands and expectations of Australian and global industries have changed over the last decade, with a rapid increase in the renewables penetration required for microgrid and on grid power generation installation.

SGC Australia has partnered with renewable technology providers and IPP's to deliver solar, wind and battery storage solutions for power stations, leveraging our design and installation capabilities to provide deliver substantial power generation facilities for a range of clients and usage applications.

MOBILE MACHINES



SGC Australia has a strong background in providing cutting-edge mobile machinery solutions, with over 15 years of experience across green and brown filed projects, upgrades and improvements.

Their multi-disciplinary expertise and demonstrated success in providing complete turnkey solutions for diverse applications make them a versatile and reliable choice for mobile machine electrical design and automation.



MOBILE MACHINES

- Engineering and feasibility studies
- Turnkey supply – design, supply, install, and commission
- Upgrades, retrofits, and modifications
- Drag chain replacement, repair and modifications
- Trailing cable and reeler supply, installation and commissioning
- Inspections and audits
- Maintenance and service work, including complete shutdown execution
- Automation and performance optimisation
- Control system design, including functional safety
- Construction and commissioning management and execution
- 24/7 support

BULK HANDLING FACILITIES

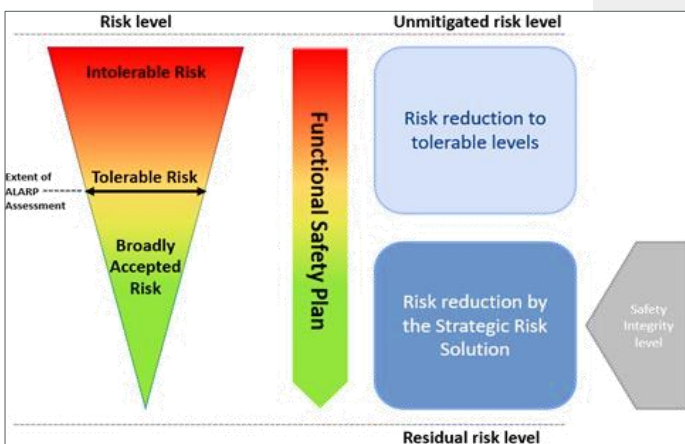
- Stockyard management systems / anti-collision systems
- Complete product tracking for bulk solids
- Hazardous area design, audits and certification
- Managed site services, including shutdowns

ENGINEERING



Specialising in mobile bulk materials handling machines, process plants, and power generation, our real-world solutions are delivered to the highest standards, and designed around your needs. Our skilled team confidently execute projects from design through to commissioning for a range of industries, applications, and client specifications.

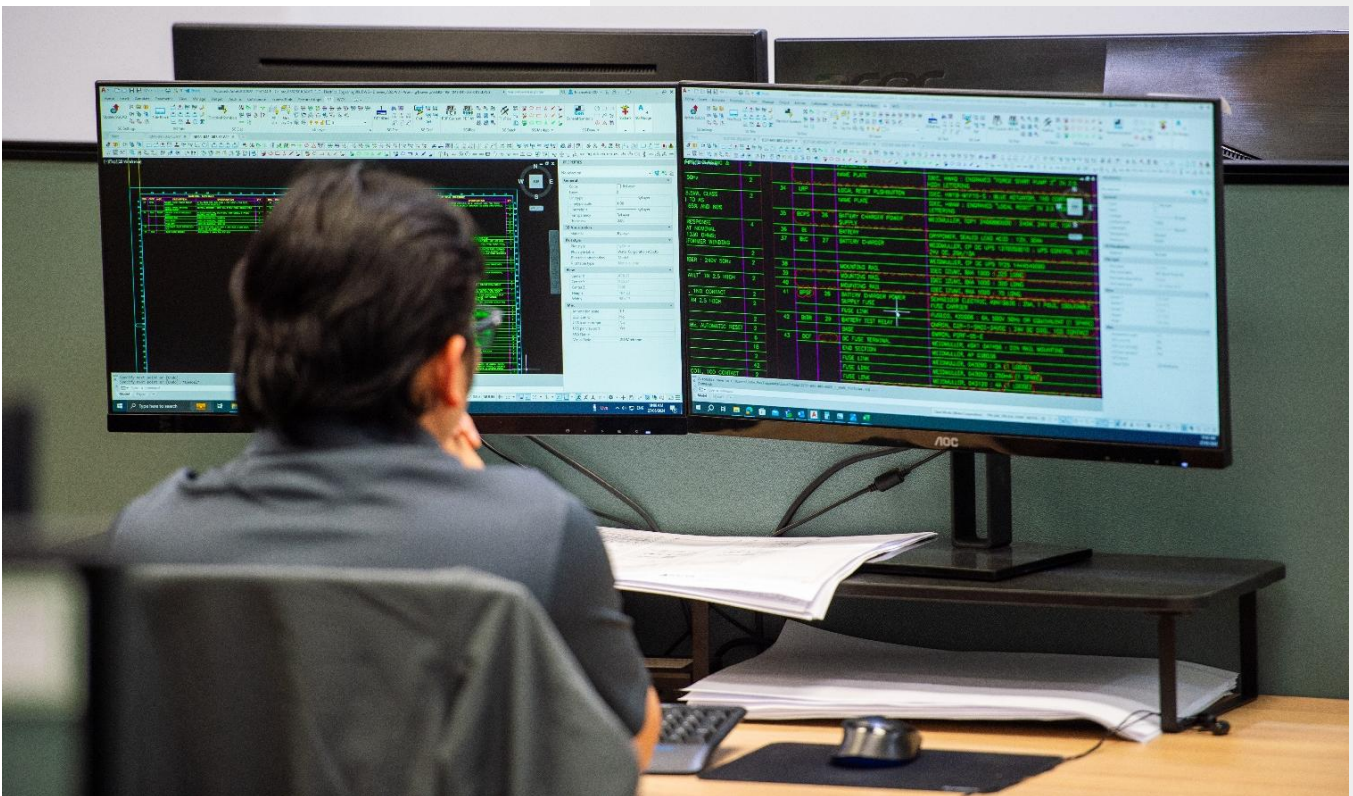
- Engineering studies
- Upgrades and retrofits
- Design, supply and construction project delivery
- Electrical drafting and power systems modelling
- Integration
- Optimisation
- Australian Standards Compliance review and assessment



FUNCTIONAL SAFETY

SGC Australia have a deep understanding of process standards and asset intensive operations.

Our Functional Safety Assurance program comprises a multistage plan that is tailored to the specific needs of the client and is the process by which we ensure that safety related systems perform when required to ensure risk is maintained As Low As Reasonably Practicable (ALARP).



CONTROL SYSTEMS



Control systems project delivery is a core focus at SGC Australia, with projects delivered across a range of applications and industries. Primarily focused on mobile machine autonomous control and process plants utilizing PLC and SCADA control interfaces, SGC Australia is a registered systems integrator for Schneider, Rockwell and Emerson control systems.

Capable of delivering full plant and facility control systems, our controls engineering team regularly executes projects covering the automation of complex industrial bulk handling facilities and processes, with the scope covering:

- PLC selection and development
- SCADA development including standards and ASM style graphical design
- Server architecture design and set up
- Network communications
- Remote monitoring and maintenance
- Full autonomous control
- Risk management
- Alarm rationalization

PERFORMANCE & OPTIMISATION

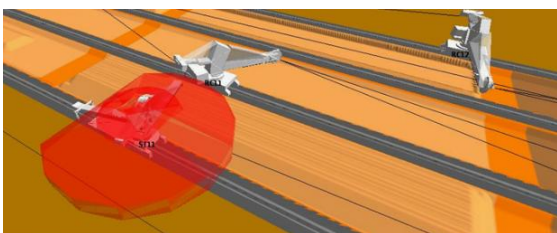
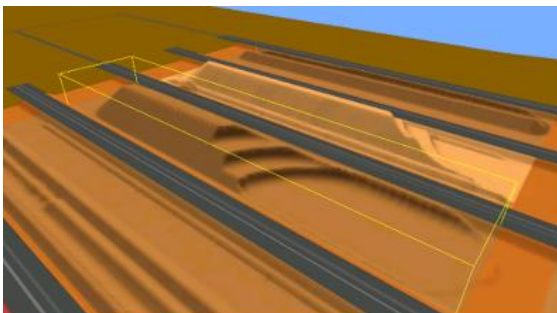
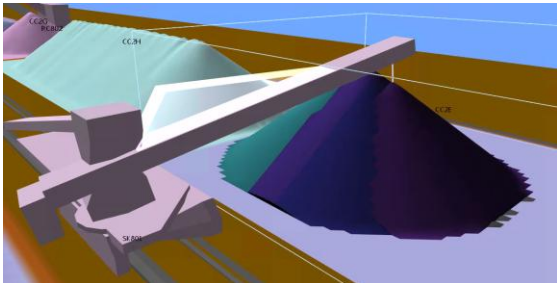
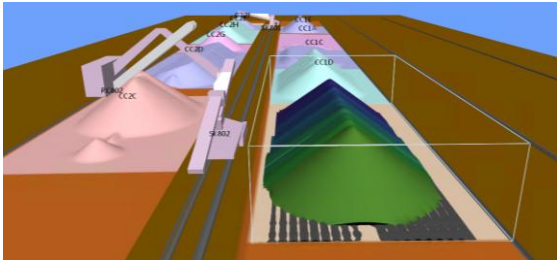
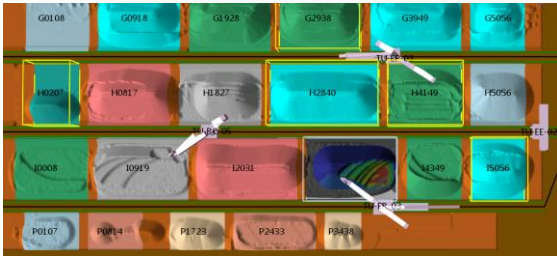
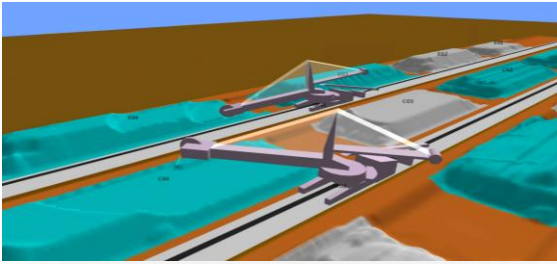
The optimisation of the electrical, instrumentation and control systems can dramatically reduce assets and plant downtime, increasing reliability and throughput.

Making these systems work together to simplify operations and maintenance is a specialist area.

Many capital projects do not have the scope to achieve this and often leave operations to work with a system that is hard to maintain and troubleshoot. However, this doesn't need to be the case.

We have a team of experienced engineers with a background in site operations that understand how these systems tie together and how operations use them, helping our clients optimise performance, save money and improve production.

STOCKYARD AUTOMATION & CONTROL



ORE TRACKING AND INVENTORY MANAGEMENT

SGC Australia are integrators for world class control and optimisation supply chain solutions developed by Eka.

The Stockyard and Terminal Management systems consist of multiple modules which broadly include Anti Collision System (ACS), Stockpile Management System (SMS), Site Automation Control (SAC) and Quality Management System (QMS) solutions.

The solutions have been adopted across major miners and agricultural exporters including at major export port terminals, storage sites, processing sites, and mine sites, and provide a multitude of solutions and commercial benefits, within a single software package.

Each module has been designed to be easily configurable thus reducing setup, testing and commissioning periods compared with traditional systems.

Each of the modules supports IEC 61131-3 open standard for programmable logic controllers and are capable of being deployed in a high availability clustered or load-balanced server environment using recommended Microsoft practices.

The modules collectively form the Insight CM product suite.

INSIGHT CM

Delivered within a single platform, Insight CM, ensures all site operations are monitored and controlled via a single, fully integrated solution.

Insight CM provides better utilisation of site assets through the use of smart interlocking to control equipment based on product location, improved operational awareness and control through real-time product tracking, smart task control, and 3D visualisation, and real-time visibility into all operations including a comprehensive reporting suite for reporting and visibility of operations.

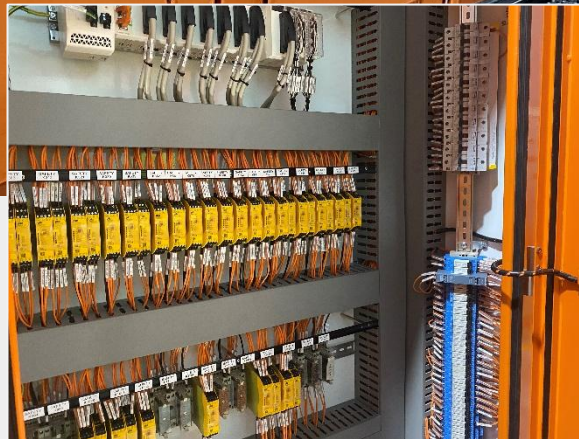
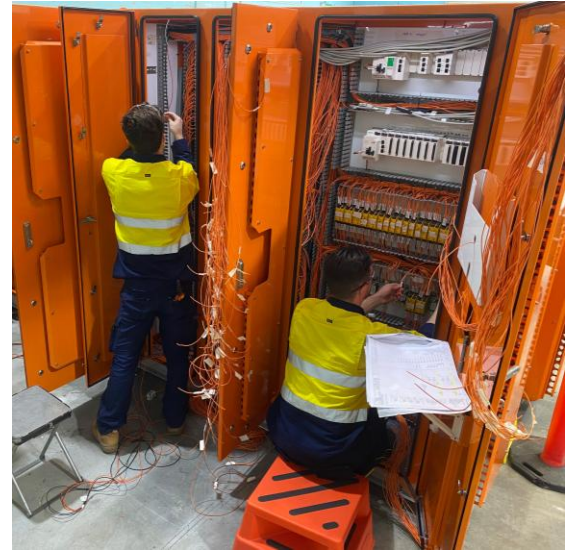


MANUFACTURING

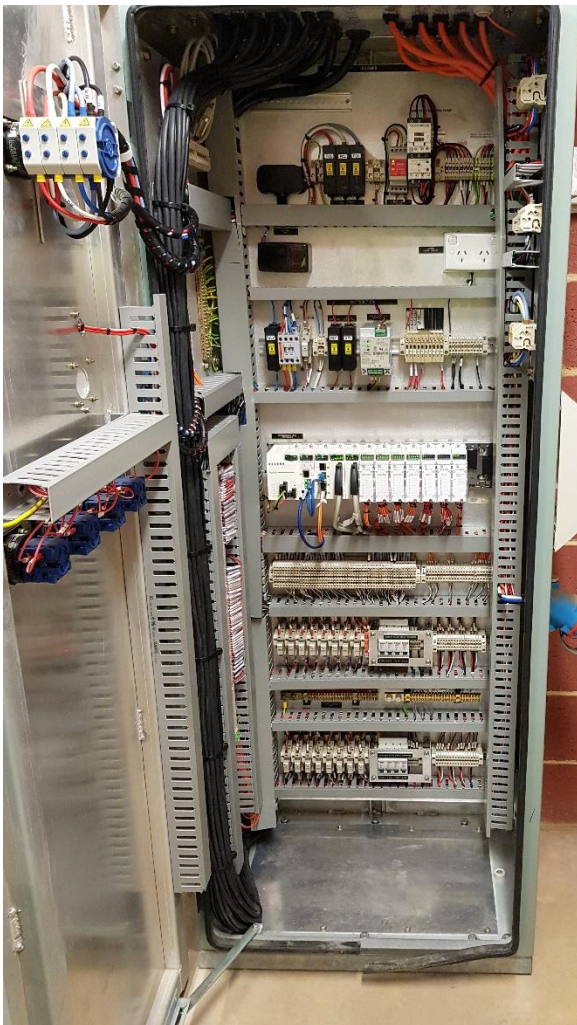
In depth industry knowledge sees the experienced team at SGC Australia is well placed to offer full turnkey manufacturing services, including design, manufacture, testing, installation and commissioning of a vast range of fully customisable electrical and control panels and enclosures, MCC's, distribution boards, remote IO panels, modular systems, and switchboard solutions.

We are capable of handling all aspects of the manufacturing process from large volumes of panels and distribution boards, through to one off custom designed panels for bespoke applications.

Our purpose-built manufacturing facility and scalable workforce mean we are able to quickly adapt to suit the needs of projects of varying types and sizes for a vast range of industries and applications.



ELECTRICAL & INSTRUMENTATION



As a licensed electrical contractor, our Electrical, Instrumentation, and Controls (E,I&C) division provides advanced solutions tailored to the Mining and Renewable Energy sectors.

Our experienced team of highly qualified electrical tradespersons and engineers can support the full project lifecycle from early contractor involvement (ECI), site construction and commissioning through to operations and shutdown maintenance.

We have teams with significant experience in mining process plants, stockyard conveyers, balance mobile machines, temporary and permanent hybrid power stations, and much more.

Our Key E,I & C Capabilities include:

- Electrical installations
- Instrumentation equipment and control systems
- Functional safety
- Electrical, instrumentation and control systems commissioning
- Power system audits and reporting
- Communications networks
- Scheduled shutdown maintenance activities
- Specialist labour-hire crews
- Mining machinery electrification projects

SPECIALIST SHUTDOWN SERVICES

Our Specialist Shutdown Services crews specialise in balanced mobile machines shutdown maintenance. With decades of combined experience, our expertise covers the construction, servicing, and maintenance of stackers, reclaimers, ship loader machines.

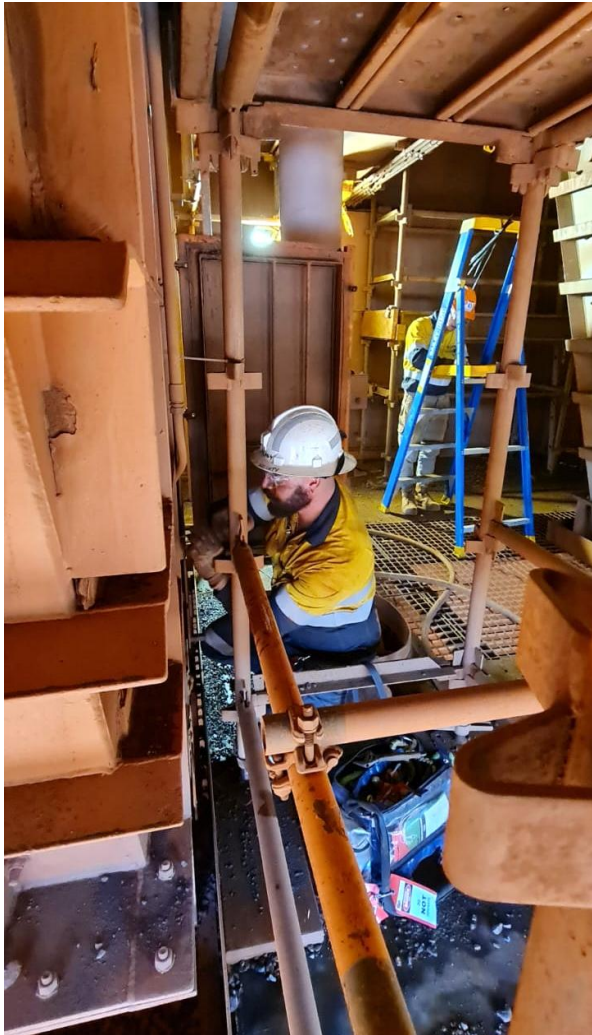
Our skilled shutdown crews are accustomed to maintaining high safety and operational standards, priding ourselves on minimizing downtime and enhancing machine longevity. Our well-established relationships with key industry manufacturers and distributors allow us to provide timely cost-efficient solutions.

Key Specialist Shutdown Services capabilities include:

- Drag Chain audits, servicing and replacement
- Fibre network auditing and network upgrades
- Cable/hose replacements
- Cable/hose reeler motor replacements
- Electrical Balanced machine upgrades
- Slipring enclosure upgrades
- Slew drive replacements.
- Long Travel replacements
- Structural Welding Rectification
- Bucket Wheel locking pin installations.
- Conveyor motor/gearbox service and replacement



TECHNICAL SERVICES



SGC Australia offers complete construction, commissioning, maintenance, and shutdown services for both fixed and mobile plant and equipment. Our specialised Electrical and Mechanical teams cover all aspects of on-site delivery, backed by an experienced electrical, controls, mechanical and structural engineering support team.

Technically competent and highly skilled teams of trade and supervisory personnel are on hand, ready to be mobilised to site by our responsive, inhouse mobilisation team at short notice. We are also well equipped with all of the necessary tooling, including fully stocked mobile tooling containers.

We have the know-how to ensure works are safely executed to the highest of standards on time, every time.



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POWER GENERATION

FMG SOLOMON POWER STATION PROJECT

Pilbara, Western Australia
\$10m AUD

Installation of 14 Rolls Royce Bergen B36:45 gas generators including electrical and mechanical equipment install, testing, verification and commissioning, punch listing, modification and remediation works, provision of all trades and supervision.



HYBRID POWER

GALENA ABRA POWER STATION PROJECT

Meekatharra, Western Australia
\$1.7m AUD

Integrated hybrid thermal and renewable power station construction including electrical and mechanical equipment install, testing, verification and commissioning, punch listing, modification and remediation works, provision of all trades and supervision.



RENEWABLE ENERGY

PWR HYBRID MT MAGNET SOLAR FARM PROJECT

Mt Magnet, Western Australia
\$700k AUD

Solar farm install electrical works including RTS mark out and surveying, block layout, string line or bay layouts, CHS anchoring and ground anchoring installations, Maverick deployment using 10t telehandler, DC reticulation to isolator and compliance testing.



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STOCKYARD OPTIMISATION

GLENCORE CLERMONT SITE REFRESH PROJECT

Emerald, Queensland
\$4.8m AUD

Control system design, supply and commissioning, including electrical design modifications for 2 stackers, conveyor system, TLO, processing and handling facilities as part of the coal plant refurbishment.



PROCESS PLANT UPGRADE

ANGLOGOLD ASHANTI OBUASI GOLD MINE PROJECT

Ghana, West Africa
\$6.9m AUD

Power station and process plant control system and network infrastructure design, supply, install and commissioning. Integration testing, training and ongoing remote site support.



PROCESS PLANT UPGRADE

TASIAST GOLD MINE UPGRADE PROJECT

Mauritania, Africa
\$5.3m AUD

Process control system replacement project, 2 process trains, new crushing and mill, PLC and SCADA Standards.

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CONSTRUCTION

RIO TINTO GUDAI DARRI STOCKYARD MACHINES CONSTRUCTION PROJECT

Newman, Western Australia
\$8.7m AUD

Electrical and mechanical construction works on 2 Stackers and 1 Reclaimer including supervision, labour, isolation and permit holder, compliance, safety docs, tooling and equipment supply.



UPGRADES & OPTIMISATION

BHP MAC STOCKYARD SUSTAINABILITY PROJECT

Newman, Western Australia
\$5.7m AUD

Design, installation and commissioning works for Stackers ST01 and ST02 including E,I&C design, engineering, functional safety installation and integration.



DESIGN & CONSTRUCT

RIO TINTO EII MCC REPLACEMENT PROJECT

Dampier, Western Australia
\$5.1m AUD

Design, manufacture, inspection and testing, delivery, installation and commissioning of 7 replacement tripper LV MCC's with IP66 rated enclosures.



THE SGC TEAM



Stuart Gee
Managing Director



Paul Johnson
Technical Services
Consultant



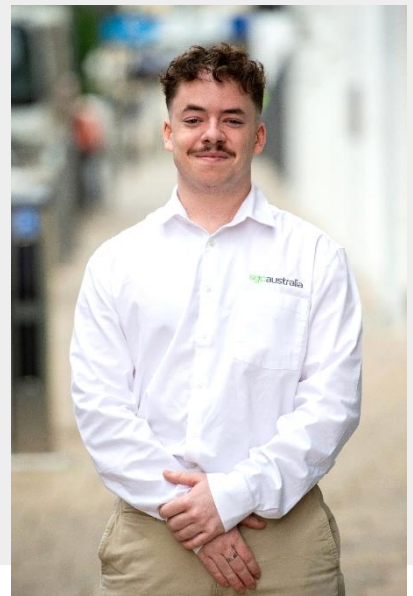
Hannah Ladds
Client Relationship
Manager



Mathew Anderson
Operations Manager -
Electrification



Craig Cheesman
Operations Manager
- Automation



Morgan Gee
Operations Manager -
Technical Services

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