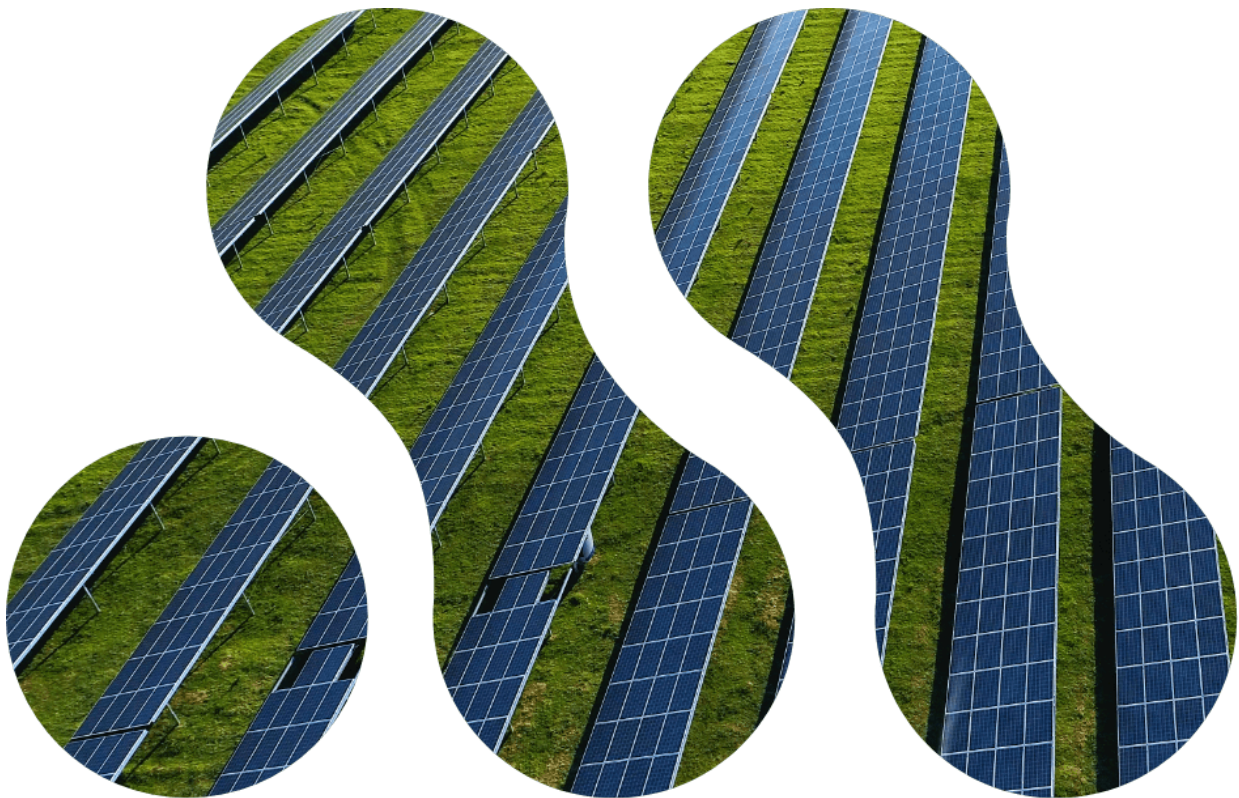


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# A WINDOW TO OUR WORLD

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**ELECTRICAL AND TELECOMMUNICATIONS INFRASTRUCTURE  
PRODUCTS AND SERVICES**



**MAYFIELD GROUP HOLDINGS LTD  
ASX:MYG**

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**Queries should be directed to:**

Mayfield Group Holdings Limited  
3 Gidgie Court  
Edinburgh, SA 5111, Australia

Andrew Rowe

T: 8 8169 1023

Email: [Andrew.Rowe@mayfieldgroup.com.au](mailto:Andrew.Rowe@mayfieldgroup.com.au)

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# Corporate Directory

## **MAYFIELD GROUP HOLDINGS LIMITED**

ABN: 57 010 597 672

ASX: MYG

## **DIRECTORS**

SR Higgins - Non-executive Chairperson

Andrew Rowe - Executive Director

LJ Phillips - Non-executive Director

AB Steele - Non-executive Director

SM Chase AM - Non-executive Director

## **COMPANY SECRETARY**

B Crowley

## **REGISTERED OFFICE AND**

### **PRINCIPAL PLACE OF BUSINESS**

3 Gidgie Court, Edinburgh, SA 5111

## **STOCK EXCHANGE LISTING**

Australia (ASX) under stock code MYG

Issued share capital: 90,585,894 shares  
as at 31 January 2023.

## **SHARE REGISTRY INFORMATION**

Automic Pty Ltd

Level 5, 126 Phillip Street, Sydney NSW  
2000

Investor Services: 1300 288 664

General Enquiries: +61 2 8072 1400

## **INDEPENDENT AUDITOR**

KPMG

# Mayfield Group Holdings Limited



Electrical and  
Telecommunications Infrastructure  
products and services

## 1.1 About Mayfield Group Holdings

Mayfield offers a suite of products and services that address the ‘whole-of-life’ requirements of both electrical and communications infrastructure. Mayfield’s ‘whole of life’ offering consists of providing design, manufacture, construction, commissioning, as well as testing and maintenance services for electrical and communications infrastructure.

Mayfield companies have been in business for decades and in that time have developed important ongoing relationships as well as significant industry leading know-how, processes and manufacturing capability.

Demand for Mayfield’s products and services is driven by both investment in new facilities as well as the need to maintain existing infrastructure by way of testing, maintenance and refurbishment services.

Within Mayfield, there is a very significant knowledge base in design standards and product verification testing to enable the manufacture and integration of customised products for clients. There is also a significant skill and certification level required to undertake many high voltage services. Mayfield also has a high level of design ability to customise its solutions and products for its clients. Mayfield believes that its high levels of knowledge, IP and skills present a unique value proposition to clients.

Mayfield believes that its ‘whole-of-life’ offering of products and services provides an advantage over the other competitors in the market. Our geographical spread of locations in Adelaide, Brisbane, Melbourne, Sydney and Perth provide a national reach with a local presence.

On 15 November 2021, Mayfield Group Limited acquired the remaining 60% of ATI Australia Pty Ltd (refer to 30 June 2022 financial statements) to become a full subsidiary of Mayfield. Founded in 1991, ATI is a telecommunication system provider with engineering capability in network and ancillary systems design. ATI holds a telecommunications carrier license, enabling the provision of public access services when required.

Mayfield comprises three operating companies:

1. Mayfield Industries Pty Ltd – wholly owned subsidiary
2. Mayfield Services Pty Ltd – wholly owned subsidiary
3. ATI Australia Pty Ltd – wholly owned subsidiary

Clients of Mayfield are owners and operators who value safety and reliability above all else. Our Electrical Infrastructure and Communication capabilities support mainly the segments of renewables, transmission, distribution, utilities, transport, mining, minerals processing, oil & gas, government and manufacturing.



MINING



INFRASTRUCTURE

POWER GENERATION &  
TRANSMISSION

HEAVY INDUSTRY

MINERALS & METAL  
PROCESSING

OIL &amp; GAS



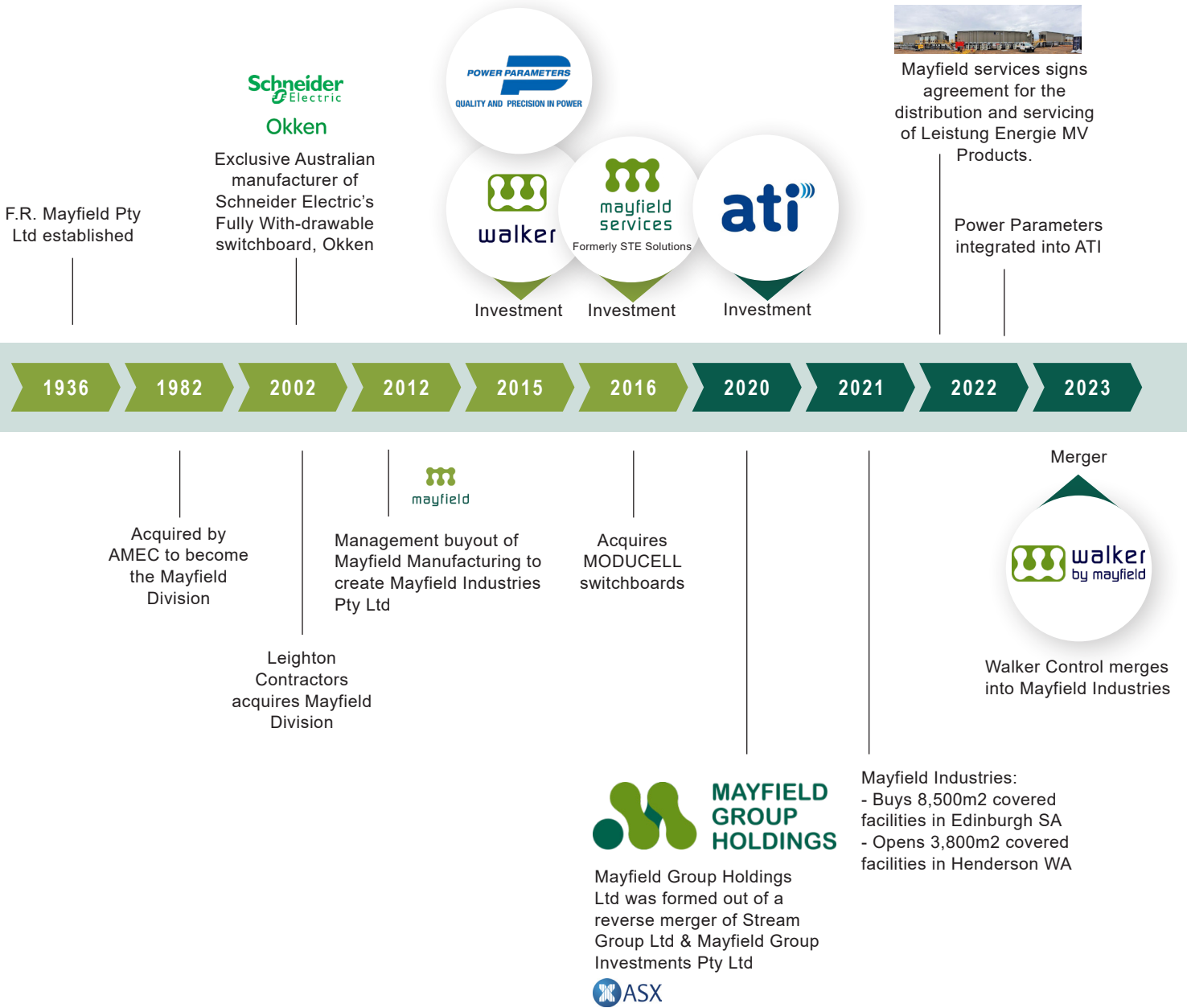
RENEWABLE ENERGY



WATER &amp; WASTEWATER

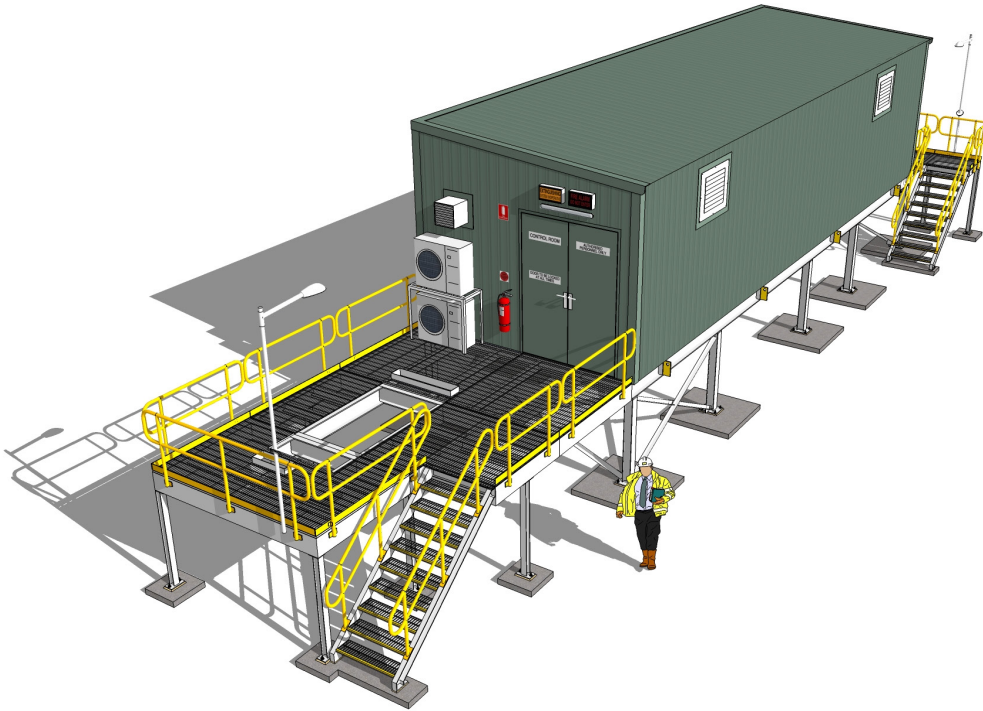


COMMUNICATION





mayfield



## FOR OVER 80 YEARS MAYFIELD HAS BEEN A DEPENDABLE NAME IN ELECTRICAL INFRASTRUCTURE

**MAYFIELD INDUSTRIES PTY LTD (MI)**  
**ABN 36 158 862 830**

**Transportable Switchrooms:** Integrated, turn-key custom-built

**Switchboards:** Modular or custom, demountable or fully-withdrawable

**Secondary Protection & Control Panels:** Custom built

**PLC/Marshalling Panels:** Custom built

**Kiosk Substations:** Specific to client requirements



## 2

### 2.1 Reputation

## Company Overview

MI was established in 1936 as F.R. Mayfield Pty Ltd. The company has grown from its beginnings as a South Australian switchboard builder to become an Australian leader in the design and manufacture of electrical switchboards, secondary protection & control panels, transportable switchrooms and kiosks.

### 2.2 Markets

The business initially focused on the markets of Oil and Gas, Mining, and Processing plants. Today MI has significant experience in withdrawable Switchboards, utilising OKKEN, and its own, type-tested, demountable, high fault-rated switchboard Moducell, for critical operations in Mining, Infrastructure, Renewable and Utilities. MI also supplies the Walker Secondary Protection & Control systems for Renewables and Utilities.

Mayfield is a leading designer and manufacturer of bespoke LV/MV/Process Control transportable switchroom as established in major projects such as APLNG and Roy Hill.

Recently MI signed an agreement with Leistung Energie for the sale and distribution of their MV products including Air Insulated and Gas Insulation switchgear and transformers.

### 2.3 Relationships

MI recognises that its success relies on the interactions with all stakeholders and values both suppliers and clients with whom they have long-term partnerships.

Supplier relations are with leading OEM brands: Schneider, ABB, NHP and Siemens.

Clients are typically repeat clients, whom MI have served on multiple occasions. MI hope to be on first-name terms, anticipating their needs and valuing the opportunity they give us.

Schneider Electric agreement for Okken fully withdrawable switchboards.

Leistung Energie Agreement for Medium Voltage (MV) Switchboards and Transformers.



## PROJECT MANAGEMENT AND DESIGN, WITH AUSTRALIAN FABRICATION AND MANUFACTURING CAPABILITY.

Supply chain peace of mind: A local presence, with a national footprint and global reach.

### Western Australia Office

*Henderson WA*

Business Development, Design and Engineering, Estimating, Procurement, Manufacture (Assembly and Commissioning).

Offices accommodating our specialist skills.

7,900m<sup>2</sup> manufacturing facility including 2,800m<sup>2</sup> undercover production space.

### South Australia Office

*Edinburgh SA*

Business Development, Design and Engineering, Estimating, Procurement, Manufacture (Assembly and Commissioning)

Offices accommodating our specialist skills.

26,500m<sup>2</sup> manufacturing facility including 12,000m<sup>2</sup> undercover production space.

### Queensland Office

*Underwood QLD*

Product Application, Design and Engineering, Estimating

Offices accommodating our specialist skills and product experts.

Provide support of Customers and Mayfield Industries facilities nationwide.



## OUR AUSTRALIAN CAPABILITY IS OUR ASSURANCE IN AN IMPERFECT WORLD.

Mayfield Industries multi-million dollar plant and infrastructure investments in Adelaide and Perth have proven its value during COVID-19. Customers experienced zero to minimal interruptions because it had made the right investments in plant, equipment and skilled people.

For every project there is always change. The company's integrated design, fabrication and assembly enables agility and control to accommodate variations, with no need to negotiate with external parties.

- ✔ **A complete innovation roadmap:**  
 The future of automation, increasing supply chain strength and high value employment.
- ✔ **Short and accurate lead-times:**  
 In-house agility, skills and innovation.
- ✔ **Everything but heavy structural steel:**  
 This is a specialised area that needs specific and proven IP. We only work with the best.

Mayfield Industries owns Moducell; this low voltage switchboard is an Australian-made demountable and modular technology that has undergone verification type testing to prove its safety in operation and meet AS61439 Stringent Standards fault rating 80KA @690V and 80KA@400V. The modular design provides immense flexibility with an extensive range of tier types which can be configured as single- or double-sided and indoor or outdoor (IP66). The modular design also provides future clients flexibility in being reconfigurable even after installation on site for future upgrades. (Refer Products)

Mayfield Industries is a licensed manufacturer of Schneider's Okken switchboards and enclosures, which provide an ideal reliability solution with their fully withdrawable module design.

Mayfield Industries supports its products with an extensive range of type tests covering Fault, Temperature Rise and Ingress Protection to name a few.

The company sheetmetal and CAD skills, and design data base allow to custom-build panels and enclosure to specific requirements and to Australian standards

Internal switchroom knowledge has accumulated over years of experience. Integration of building services including HVAC, fire systems and communications into a turnkey, pre-commissioned facility is core to the company competence. Mayfield Industries design philosophy and construction methods consider the full range of climates and geotechnical conditions as well as the rigours of transport and placement.

In 2013 MI partnered with Schneider to be the sole manufacturer of the Okken low-voltage switchboards, for distribution to mining, water, and oil & gas sites across Australia. MI was granted this license due to their need for a partner who would be able to produce the same quality as Schneider.

Adding to its Okken offering, MI acquired the rights and licenses to design, manufacture, and supply Moducell Switchboards to the Australian market from i.Power Solutions (Lendlease). This allowed MI to extend its range of Type tested



switchboard solutions offered to clients. Moducell had a significant installed base across Australia and provided Mayfield access to the broader Industrial Sector and extended its whole-of-life offering through on-site maintenance.

Strengths:

- Broad range of electrical infrastructure market segments serviced.
- The “whole-of-life” depth of products and services.
- Ideally suited to industrial situations where safety and reliability are paramount.
- The maintenance and operation skills in medium and high voltage facilities.



In 2023 MI merged Walker Control and now produces the Walker brand of secondary protection and control systems renowned for high client specification compliance and quality.

Schneider  
Electric

Okken



# Everyone deserves to return home safe.

Mayfield Industries is committed to designing and manufacturing products that provide a safe operating environment for our clients, who we recognise are reliant on critical electrical infrastructure to deliver their promises.

## OUR PRODUCTS

- TRANSPORTABLE SWITCHROOMS
- MODUCELL DEMOUNTABLE SWITCHBOARDS
- OKKEN FULLY WITHDRAWABLE SWITCHBOARDS
- WALKER SECODARY PROTECTION & CONTROL PANELS
- CUSTOM SWITCHBOARDS
- PLC/MARSHALLING PANELS
- KIOSK SUBSTATIONS MV SWITCH BOARDS DATA CENTRE SOLUTIONS

Commercially with Mayfield, clients have a partner who is tied to successful outcomes, because it takes responsibility with delays. Every project comes with a dedicated Project Manager whose sole purpose is focused on benefits realisation – on time, on budget, fully compliant, with no surprises. Post commissioning, it reviews performance, confidence levels during the project and clients satisfaction upon completion.

- ✓ **Teams integrated and managed:**  
Everyone is driven to deadlines.
- ✓ **Suppliers managed:**  
It's our responsibility.
- ✓ **Transparent communications:**  
Concise updates. Photos provided.  
Zero excuses.



*"Our clients will experience us as a valued partner; professional, convenient and trustworthy."*

Mark Elms, Services Delivery Manager

## FACTORY ACCEPTANCE TESTING WITH NO IFS OR BUTS

Mayfield guarantees our work, quality and final testing, and can work to our clients' testing templates where required.

Taking a fully integrated approach saves a lot of time and money. Mayfield Industries sister company Mayfield Services offers the best of both worlds. A streamlined process for total quality assurance, but also with an independent entity who has their own corporate responsibility.

This way, there's no need for clients teams to travel extensively to supervise. Clients can use Mayfield group expertise and equipment as an extension to their own team, all backed with solid guarantees and proven systems. This is true Point to Point commissioning and Factory Acceptance Testing for plug and play.



Complete life-cycle support, with maintenance programs to remain safe, compliant and operational are also available.



## TRANSPORTABLE SWITCHROOMS

Designed and Engineered for the sole purpose of creating a protective environment for sensitive switchgear throughout the life cycle. The structural design is key to ensuring rigidity but offers flexibility to optimise a custom solution for Clients.

Safety in Design is a critical component in the development of every transportable switchroom.

- Single and Multi-Module builds
- Cyclone, Blast and Ballistic solutions
- Fire rated construction – backed by a Fire Engineering report
- Fire System protection – Detection and Suppression
- HVAC – Split, Packaged, Ducted,
- Chiller
- Support frames, platforms and stairs
- Complete switchgear and electrical fitout
- Tested and pre-commissioned to the maximum extent
- Built to comply to NCC Class 8 and 10



## MODUCELL DEMOUNTABLE SWITCHBOARDS

Moducell is a modular, demountable type tested switchboard solution that provides high flexibility in tier and module layout and future changes as needs evolve. The level of testing has been significant to ensure clients employees are safe.

- Type tested to AS/NZS 61439
- IP42, IP54 and outdoor IP66 standard versions
- Top and Bottom entry, Front or Back connect
- Single and Double sided
- Operational voltage  $\leq 1000\text{VAC}$
- Rated current  $\leq 5000\text{A}$
- Fault level withstand  $\leq 100\text{kA}$
- Internal arc fault protection  $\leq 80\text{kA}$ ,  $690\text{VAC}$
- Zincanneal and Stainless Steel options
- OEM freedom of choice



## OKKEN FULLY WITHDRAWABLE SWITCHBOARDS

Okken is a modular, fully withdrawable and type tested switchboard solution that maximises operational uptime. Individual modules can be fully withdrawn without the need to isolate the entire switchboard. The drawer design minimises space delivering the highest density of modules per tier.

Okken is licensed and 100% supported by the worldwide network of Schneider Electric.

- Fully Type tested to IEC 60439, 61439 and AS/NZS 61439
- IP31, IP41 and IP54 versions
- Top and Bottom entry, Front or Back connect
- Single and Double sided
- Operational voltage  $\leq 690\text{VAC}$
- Rated current  $\leq 6300\text{A}$ , horizontal bus  $\leq 7300\text{A}$
- Fault level withstand  $\leq 150\text{kA}$
- Internal arc fault protection  $\leq 100\text{kA}$  for  $0.3\text{s}$



## CUSTOM SWITCHBOARDS

All custom switchboards are manufactured in-house and designed to suit critical requirements of Clients, typically where space, environment or budget are key drivers. The company custom solutions are supported by numerous Ingress Protection, Temperature Rise and Arc Fault tests.

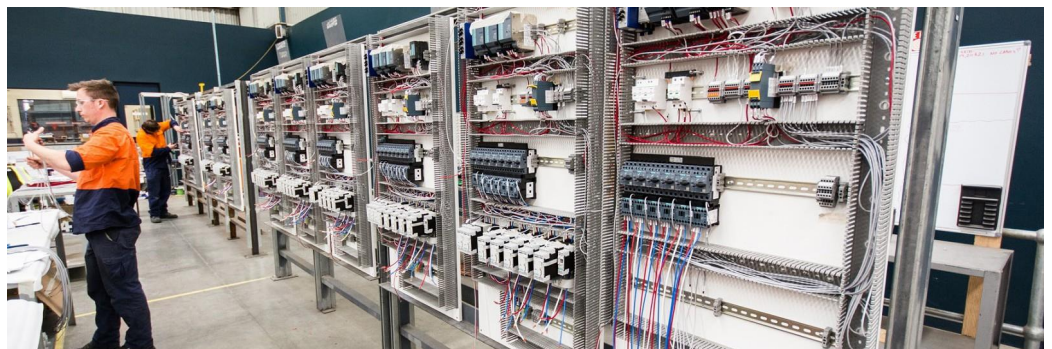
- Zincanneal, Gal Steel, Stainless Steel construction
- Ingress protection  $\leq$ IP66
- Fixed and Demountable module solutions
- In-house powder coating to Internal and External specs
- Solutions for 500C ambient
- Load Break Isolators up to 800A



## PLC/MARSHALLING PANELS

Mayfield can offer custom or proprietary enclosures or incorporate PLC/Marshalling into any of the switchboard solutions.

- Ingress protection  $\leq$ IP66
- Custom Control Panels
- PLC Panels
- Enclosed Isolator Panels
- Marshalling Cubicles
- Local Control Stations
- Junction Boxes

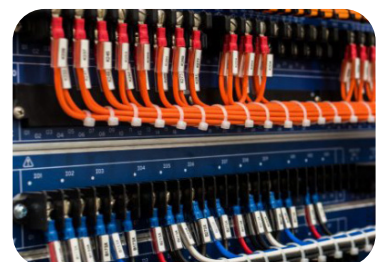


## WALKER SECONDARY PROTECTION AND CONTROL PANELS FOR MV AND HV ASSETS

Detecting electrical faults on MV and HV assets, then isolating the assets from the network to prevent grid instability and equipment damage, and minimise power outages.

For key assets, such as:

- Transmission feeders
- Transmission transformers
- Busbars
- Circuit breakers
- Capacitor banks
- Distribution feeders
- Distribution transformers.



Each system is built to meet the individual utility company’s standards, relay specifications and enclosure requirements.

To support the communications vital to substation infrastructure it produces:

- Data concentrator “DCON” panels
- Station Remote Terminal Unit “RTU” panels
- Fibre-optic Break Out Tray “FOBOT” panels

PLC panels and custom control cubicles to meet specific operational requirements. Physical size is no restriction, with multi-tier panels fully assembled for factory acceptance testing and then split for transport.

Walker solutions are offered in client-specified OEM or Mayfield custom built enclosures. Client free-issue equipment is readily included.



### KIOSK SUBSTATIONS

MI proven designs, materials and specifications prevent wind driven water ingress, minimise dust entry and ensure sufficient airflow for extreme ambient temperatures – all combining to deliver optimal protection for critical electrical equipment.

Whether using the kiosk substations for short term emergency response or a long-term fix to existing plant, clients can be certain their critical upstream and downstream electrical equipment will be protected and safe.

MI provides turnkey solutions incorporating LV and MV switchboards, with all equipment installed in Mayfield manufacturing facilities and extensively tested before deployment to site, reducing on-site disruption and costs.

- Ingress protection  $\leq$ IP66
  - Natural and Mechanical ventilation solutions
  - MV switchgear (RMU and Transformer)
  - LV switchboards
  - Cabling between MV/TX/LV
  - Pre-commissioning and testing
- completed before factory dispatch.
- Additional options include:
- Interconnecting cabling
  - Internal/external power and lighting
  - Transportation of kiosk to site
  - Site installation and commissioning



### THIRD-PARTY ACCREDITATION







## WHEN SAFETY AND UPTIME ARE KEY REQUIREMENTS

**MAYFIELD SERVICES PTY LTD**

**ABN 96 129 846 064**

**Provides:** Switching, testing and maintenance services to critical LV, MV and HV electrical infrastructure.

**Industry Sectors:** Power generation, renewables, electricity transmission & distribution, mining, industry and infrastructure.

## Company Information

3.1

About Mayfield Services

For more than 10 years Mayfield Services has been delivering high, medium and low voltage infrastructure services throughout Australia.

Mayfield Services team of multi-disciplined specialists understand the critical nature of electrical assets and can be trusted to switch and maintain infrastructure.

From batteries, solar and wind farms, transmission assets and switch rooms, the company specialised teams are equipped to handle clients service requirements.

3.2

Services

Mayfield Services provides switching, testing and maintenance services for HV, MV and LV infrastructure

### SWITCHING OF CRITICAL HV AND MV ELECTRICAL EQUIPMENT

- Nationally accredited for switching in all states (subject to client approval)
  - Providing HV Switching support to:-
    - Electrical Supply Industry (ESI) (Transmission and Distribution)
    - Utilities
    - Renewables
    - Public or private apparatus and systems
- Operating authority (HVOA), Switching operator or Recipient in Charge
- Preparation and checking of switching sheet



### HV, MV AND LV TESTING

- Primary plant services
  - Circuit breakers (including timing tests)
  - Current transformers
  - Voltage transformers
  - Transformers
  - Disconnectors
  - Earthing switches
  - Insulation quality assessment (Tan Delta testing)
  - Primary current injection testing (Up to 800A AC)
  - Sweep frequency response analysis tests
- Secondary systems
  - Protection schemes using Teleprotection
  - SCADA and RTU (Bay Controller) systems
  - Condition monitoring equipment
  - Wiring systems including insulation resistance testing and point to point checks
  - AC and DC supply systems
- including backup power supplies.
- Protection relay testing using Omicron 3 phase test injection set
  - Distance protection
  - Differential protection
  - Overcurrent protection
  - Earth fault (residual) protection
  - Generator protection
  - Motor protection
  - Trip logic testing



## MAINTENANCE OF CRITICAL HV, MV AND LV ELECTRICAL EQUIPMENT

Maintenance capabilities and solutions include:

- Renewables Balance of Plant maintenance
- 24-7 emergency breakdown response
- Specialist testing services
- MV cable jointing and termination
- Transformer maintenance
- Installation and repairs
- Thermographic Inspections
- RCD testing



These capabilities are provided as individual services or on a term contract

## SWITCHBOARD UPGRADES

Services include:

- LV switchboard module and tier upgrades or additions (Moducell and Okken)
- MV switchboard replacements or extensions
- LV switchboard arc flash assessments for increased operator safety



## THIRD-PARTY ACCREDITATION





## **NETWORKS THAT GO FURTHER**

**ATI AUSTRALIA PTY LIMITED**

**ABN 69 065 377 675**

### **Solutions Include:**

Telecommunication Infrastructure

Critical Power Solutions

Power quality instrumentation and analysis

Remote monitoring

Battery Management

Whole of Life support services



## 5

### 5.1

#### About ATI Australia

## Company Information

ATI Australia was established in 1992, with the purpose to support Australian enterprise with novel technologies delivering high-capacity telecommunications services. ATI quickly became a leading expert in digital microwave radio technology, building wireless wide area networks for government, utilities, education, health, transport and mining across Australia.

The key ingredient to reliable telecommunications systems is the power system supporting them. Through building our telecommunications solutions ATI has developed a detailed skill set in the design and deployment telecommunications power and battery systems. The design and deployment of critical power systems is now core business for ATI.

In March 2022 ATI's capability in critical power was broadened after a merger with Power Parameters, a business with over 100 years of history in industrial power in Australia. With the merger ATI became expert in power test, measurements and verifications systems and industrial Uninterruptable Power Supplies (UPS).

In 2023, ATI is a professional engineering and technical services organisation providing products and services in telecommunications, critical power systems and power quality instruments. Application of engineering principles, planning and innovation allows us to integrate technology to create solutions to the evolving telecommunications and critical power requirements of enterprise within Australia.

### 5.2

#### Products & Services

## WIRELESS TELECOMMUNICATIONS & DATA SOLUTIONS

ATI designs and builds turn-key telecommunications infrastructure on greenfield locations and coordinates:

- Civil, Structural, Electrical and Telecommunications design
- Construction and local authority approvals
- Telecommunications facility construction
- Power system installation and commissioning
- High-capacity data backhaul system installation and commissioning.



With the Telecommunications foundation laid ATI can then deliver technology for our customers' specific applications, including:

- Microwave Last Mile delivery of IP-WAN services
- Digital Mobile Radio,
- Supervisory Control and Data Acquisition (SCADA)
- Energy network transmission and distribution Tele-protection,
- Closed Circuit Television,
- WiFi and other wireless solutions for user access and facilitation of the 'I of T'

ATI has the experience and skill to provide a complete end-to-end telecommunications solution.

### **CRITICAL POWER SOLUTIONS**

ATI's UPS, DC power, solar/generator hybrid and battery storage products are used by our clients to support critical applications. Availability of power ultimately defines the availability of our clients' systems. Power systems designed, deployed and supported by ATI are used in:

- Energy, Water, Mining and Transport
  - 110Volt substation auxiliary power supplies
  - Critical Communications, SCADA and Tele-protection
- Emergency Services
  - Station Operations
  - Critical Communications
- Federal Government
  - Meteorological and Geological scientific measurements
  - Border Security Camera Surveillance
  - National Broadcasting services
- Tertiary Education and Research
  - Remote campus IP WAN Services
  - Renewable Energy Research and development
- State and Local Government
  - Remote campus IP WAN Services
  - CCTV for local Law Enforcement
  - IT systems for Corporate and Customer Services
  - Critical Communications and SCADA



These critical applications require reliable power that ATI can provide through integration of a range of power and energy storage technologies. These include:

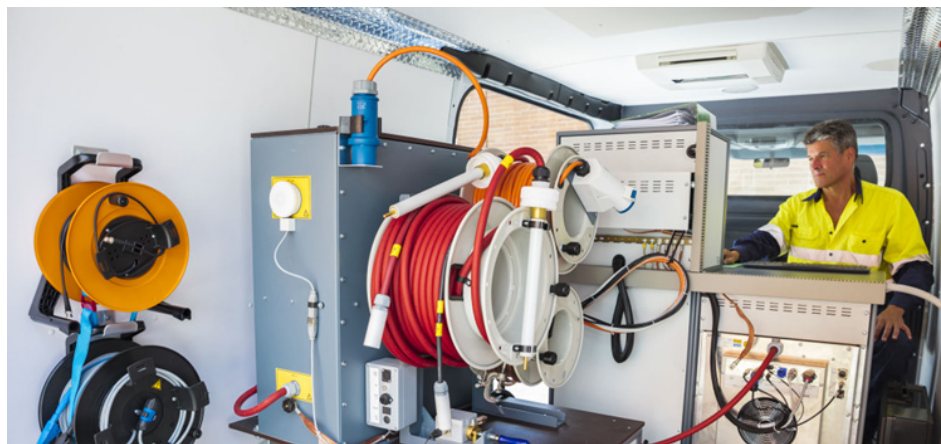
- DC Power Supply 12 – 110Volt for telecoms and energy transmission
- CEC Accredited Telecommunications solar systems 1-20kW
- Wind generation
- Energy Storage:
  - Battery - Sealed Lead Acid or Lithium Iron Phosphate 0.3-266kWh
  - Diesel or Gas Generator 10-600kVA
- 240-415 Volt Uninterruptible Power Supply 10-600kVA

ATI Engineers can solve our clients' critical power challenges, including: Filtering poor quality utility power, management of reactive load power factor, reliable back up power, and stand-alone telecommunications power systems.

### POWER QUALITY INSTRUMENTS & ANALYSIS

Partnering with some of the best equipment manufactures in the industrial power market including Schneider, Hioki, Chroma and Baur, ATI are a leading supplier of power test, measurement and verification products and services.

- Underground HV cable fault detection and condition assessment
- Underground cable asset location and identification
- Cable and transformer insulation testing
- Power quality fault analysis
- Load testing and auditing
- Automatic test systems for battery and generation research and manufacture



ATI Engineers can design and build integrated testing solutions including:

- Underground HV Cable Test vans, trucks and trailers for Utilities
- Testing laboratory systems for power generation and battery research and development
- Production line test systems for power generation and battery manufacture quality assurance
- Onsite continuous power monitoring and analysis systems for industrial facilities.

ATI engineers provide application support in the use of our systems and expert analysis of results, assisting our clients manage and maintain their operations.

## REMOTE MONITORING

ATI has remote monitoring and asset maintenance capability, configurable to our clients' requirements, providing access to:

- Real time system performance monitoring
- Fault or incident alerting
- Remote access for application support or fault diagnosis and repair
- Real time asset condition monitoring
- Predictive condition reporting for power infrastructure

The system is utilised on most networks and systems deployed by ATI Australia but may also be applied to any existing asse. Example applications include:

- Underground HV Cable condition and predictive lifetime assessment
- Transformer Oil insulation monitoring
- Telecommunication network monitoring and management
- Site power and battery monitoring
- Utility power quality analysis
- Renewable generation asset monitoring
- Supervisory Control and Data Acquisition applications (SCADA)

Over 1,500 customer locations have been added to the remote monitoring platform bringing condition and performance data from many thousands of devices into the view of our capable support team.

## BATTERY MANAGEMENT SOLUTIONS

Developed in house by our Engineers to support ATI telecommunications power systems, the Socius Technology Battery Manager is a leading-edge Battery management solution for all battery technologies and industry applications.



The Socius Battery Manager provides granular data on each cell in a client battery system through its functions of:

- Measure: Voltage (system, string and cell), Current (system and string), temperature (cell), internal resistance (cell)
- Control: Interface to charging systems, optional charge/battery/load disconnect and reconnect hardware,



- Alert: Report errors or exceptions in state, condition or performance
- Protect: Disconnect or reconnect charge/battery/load as required, balance cell voltages (dynamic through charge and regenerative within the string)
- Report: Usage, errors and exceptions, performance and lifecycle predictions

This information can be used to provide a clear picture of the health capacity and status of your energy storage assets network wide delivering the following outcomes:

- Visibility of latent faults in battery cells affecting performance of your batter
- Visibility of the true capacity of your battery assets as they degrade over time
- The opportunity to reduce or remove preventative maintenance and audit visits
- Remove the need for calendar-based battery cell replacements.

The Socius Battery Manager allows users to protect, control, manage and monitor their battery systems. Its flexible configurations suit any battery type and chemistry. Scalable for almost any battery pack size and pack voltage. Universal cell connections with the option of wired or wireless communications. Suitable for telecommunications, industrial & commercial battery systems.

## WHOLE OF LIFE SUPPORT

ATI offers whole of life support for all products we deliver. ATI is able to tailor a support package that aligns to the role of the solution we deliver in our customers operation and to its importance.

Our support packages offer service level assurance based on:

- **Availability:** System or solution availability per annum, inventory or spare part availability, personnel availability (time of day & day of week)
- **Time:** Response time, Restore time, Dispatch time, mobilise time
- **Frequency:** intervals for maintenance, inspection, testing or reporting

ATI support plans rely on three key ingredients:

- A 24 by 7 service desk – Giving our customers someone to talk to
- A CRM Asset database – Giving our service desk access to what you are talking about
- Our Remote monitoring and asset management platform – Providing ATI visibility of your system.



*The ATI Service Model*

ATI offers its products and services to clients as End-users, Wholesalers and Resellers. Within these categories the company enjoys ongoing relationships with decades of repeat business. Clients have a keen interest in ensuring the reliability of power systems and the assessment of power quality. Key clients are:



The company participates in all regions in Australian, and covers the following markets:

- Utilities
- Education
- Retail
- Emergency Services
- Health
- Defence
- Mining
- Oil & Gas
- Renewables
- Information Technology and telecommunications



**Mayfield Group Holdings Limited**

3 Gidgie Court

Edinburgh, SA 5111,

Australia