



# CAPABILITY STATEMENT

Reliability | Longevity | Service

Industrial AC & DC Back-Up Power  
Systems Energy Storage &  
Stand Alone Power Systems

[magellanpower.com.au](http://magellanpower.com.au)



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# COMPANY TIMELINE

Magellan Powertronics was founded in 1991 by Masoud Abshar. In Perth Australia.

After migrating to Perth as a hands-on practical Power Electronics design engineer, he saw there was a distinct lack of opportunity for engineers interested in creating products and solutions.

At the time, much of equipment needed for mining and other industries was imported and there was very little in the way of local manufacturing.

Masoud saw the potential to design and manufacture customized, high reliability, long life, Power Electronics equipment to suit Australian customer needs and the harsh operating conditions. The first product was the SPC DC power systems created in 1991. Along the way, many more advanced power products such as MCRI, MCR II DC power system as well as industrial Inverters and UPS followed.

Around 2009 having developed high quality AC and DC systems, Magellan was one of first companies in the world to enter the Energy Storage field and since then Magellan has developed, Australian made Home Energy Storage, Commercial/Industrial Scale Energy Storage, Utility Scale Energy Storage and Stand Alone Power Systems.

Magellan has grown from a one-person, one-product business to the team it is today, employing Research and Development engineers, Production Engineers, Technicians, Electrician, Production Personnel and site service technicians.

Magellan's guiding principles are 'Making products that last for years' and Steadfast Support of our customers'

1991



- Inception of POWERTRONICS

1995



- POWERTRONICS renamed to Magellan Powertronics
- Development of MCRI
- O'Connor location
- 10+ employees

2007



- Magellan Powertronics renamed to Magellan Power
- Development of MCR II + Dual Conversion / BiDirectional UPS
- Bibra Lake location (Cocos Drive)
- 30 employees

2009



- Development of Grid Utility Support System (GUSS)
- Logo update
- 30+ employees

2013



- Development of HESS + Utility Scale Energy Storage
- Expanded Bibra Lake location (Bushland Ridge)
- 50+ employees

2020



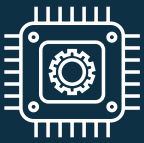
- Updated logo
- 60+ employees





# COMPANY PROFILE

AUSTRALIAN MADE TECHNOLOGY



ADVANCED  
INDUSTRIAL DESIGN



BUILT FOR HARSH  
ENVIRONMENT



25 YEAR  
DESIGN LIFE

*Since establishment in 1991 Magellan Power has designed and manufactured high-reliability DC and AC back-up power systems for many major projects across Australia and overseas*

Magellan Power is a family owned business founded by Masoud Abshar- a power electronics engineer - in 1991. The company was based and progressed from a need for customised, locally made and supported products that suited Australian harsh environmental conditions (heat, humidity and dust).

Magellan provides its customers with rugged, reliable power solutions especially built and tailored to specific project needs. Magellan Power's advantage is its cutting edge technology and ever evolving Australian-based research and development capabilities which ensure it is always at the cusp of industry changes.

The company manufactures AC and DC power systems, grid supporting energy storage, provides equipment plus batteries and specialised service and commissioning. grid supporting energy storage.



Magellan Power has a team of over 50 engineers, technicians and professional support staff, plus offices in New South Wales and Victoria.

The company is accredited with the AS/NZS ISO 9001:2015 Quality System across the areas of research and development, manufacture, supply and service of renewable design, management, manufacture supply and service of power electronic equipment and supply of industrial batteries.

## CAPABILITIES

# WHAT WE OFFER

Magellan Power manufactures high reliability AC and DC power systems, grid supporting energy storage equipment plus batteries and offers specialised service and commissioning.

*Magellan Power brings together hardware, software, and steadfast services to ensure our customers' vital equipment is powered continuously and reliably.*

Magellan Power's Service Technicians are the industry's leading experts in the provision of support through preventative and on-site repair services, which can eliminate the downtime of your power equipment.

### DESIGN

- In house R&D and product development
- State of art robust Australian design solutions
- Expert technical team
- Built-in reliability and longevity
- Perfect for extreme conditions.
- 25 year design life.

### ENGINEERING

- Innovative solutions that reduce cost and increase reliability

### MAINTENANCE

- Maintenance contract
- 24-hour call out
- Onsite and workshop repairs
- Site commissioning
- Battery testing and replacement.
- Audit services

### OUR PRODUCTS

- Magellan Power's service technicians are the industry's leading experts in the provision of support through preventative and onsite repair services
- Comprehensive visual and mechanical inspection
- Functional test
- Full battery health check including battery capacity test if feasible
- Full service report

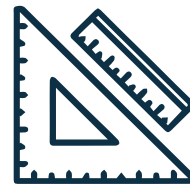
# OUR VALUES

TOTAL PEACE OF MIND

STEADFAST  
SUPPORT OF  
OUR CUSTOMERS



MAKING  
PRODUCTS  
THAT LAST  
FOR YEARS



CONTINUOUS  
IMPROVEMENT



UNIQUELY  
AUSTRALIAN



ETHICAL  
BUSINESS



REPUTATION



# UNIQUELY AUSTRALIAN

30 years of deep understanding of Australian conditions, size and working environment means we know our customers, where they are and what they need.

We design products and solutions that perfectly suit their requirements, work reliably and last for years while offering steadfast support with parts that are always available and expert service personnel who are ready to support our clients 24 hours / 7 days a week.



## WHY WE CHOOSE TO MANUFACTURE IN AUSTRALIA

Magellan Power ensures smart jobs and design knowledge are kept in Western Australia. We employ Australian design engineers, testing technicians and assembly staff. We further source our items locally to support other local Australian businesses in the industry.

# IN THE MARKET



MINING & HEAVY INDUSTRY

URBAN INFRASTRUCTURE

WATER & ELECTRICITY

TRANSPORT

AIRPORTS

DEFENCE

COMMERCIAL

OIL & GAS

HEALTH



# OUR PRODUCTS

INDUSTRIAL AC & DC UPS

STAND ALONE POWER SYSTEMS

LITHIUM BATTERIES

LEAD ACID BATTERIES

ENERGY STORAGE

INDUSTRIAL RECTIFIERS &

INVERTERS



# OUR PRODUCTS



## DC back up power solutions (DC UPS)

Magellan's flagship product the MCR11 battery charger. 100% Made in Australia, the MCR11 series is highly reliable and designed for use in mining, substations, power stations, utility, marine, processing facilities, infrastructure and oil and gas applications. Available in ultra-rugged phase controlled and switch-mode versions, the MCR11 is ideal for industrial applications including substation battery systems and DC UPS. It is suitable for VRLA, NiCad and Lithium batteries.



## AC back up power solutions (AC UPS)

Designed for high reliability and featuring microprocessor and DSP controls, the Magellan Power single-phase and three-phase inverters are rated for continuous operation at full load. With full system remote diagnostics, monitoring and reporting via Internet, along with integrated data and fault logging and settable software parameters, this equipment is ideal for hybrid power applications.



## Energy storage systems

The Australian designed and manufactured Magellan Commercial Scale Energy Storage System is designed for business use. It helps businesses break away from relying on the traditional power supply and associated costs, becoming more efficient and in control of their power use and spending. Magellan Commercial Scale Energy Storage helps businesses to maximise the use of solar power, reduce reliance on the grid, avoid paying for peak power and to rely on their own power when the grid fails.



## Commercial UPS

Magellan offers a range of commercial (5kVA-800kVA) UPS, which are perfect for hospitals, airports and large commercial projects.



# WE ARE

## Technically Robust

Since our inception we have pursued a rigorous approach to the design, building and testing of all the products and solutions we deploy, with product reliability and longevity at the forefront of our minds. We continually invest in R&D to ensure we are at the precipice of the technical innovation required to meet the demands of a rapidly changing energy marketplace.

This enables us to fine-tune our solutions to fit our client's unique requirements, and ensure our products are built to last for years.

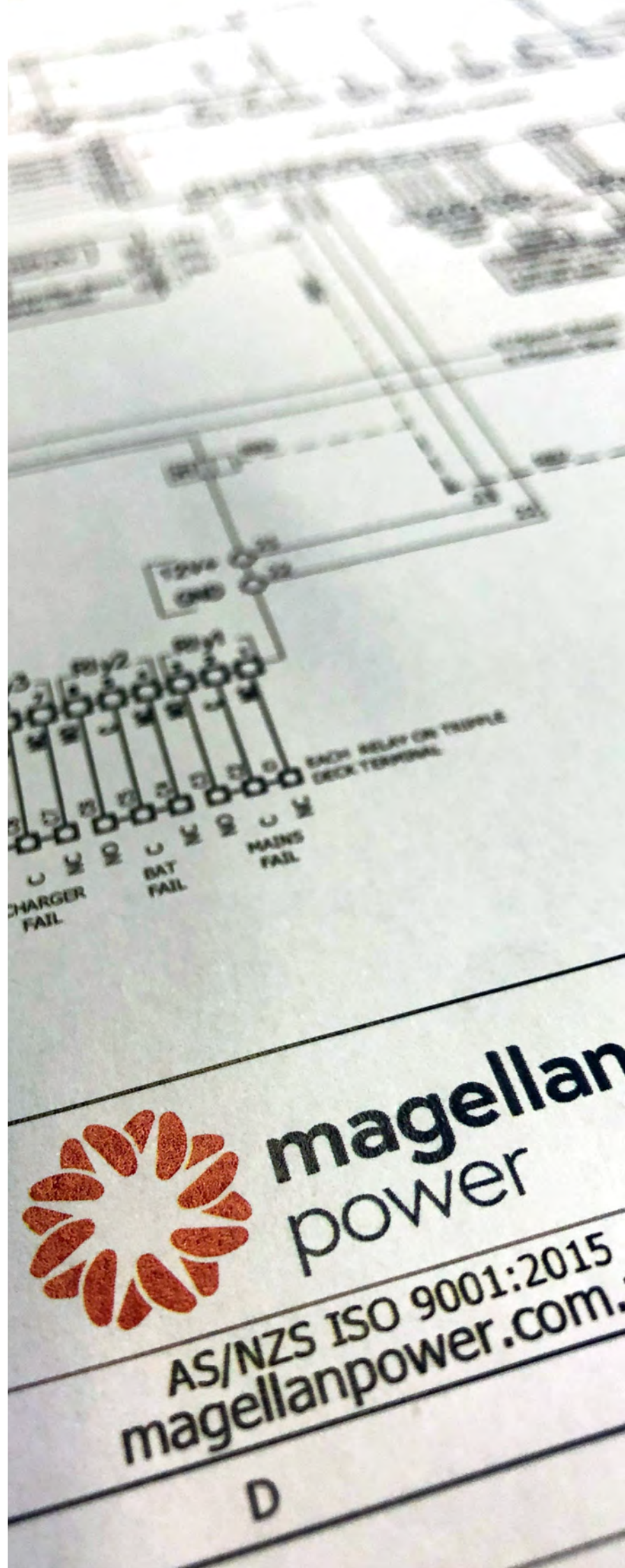
## Analytically minded

Right analysis leads to the right solution and our sales engineers have a wealth of experience living and breathing power systems. Scoping new projects properly from the very beginning, listening carefully to our clients and their challenges, sharing insights and working with them to see a better way of doing things.

Once the objective is clear, our project engineers develop a competitive solution and deliver a quality product that will last longer and require less ongoing maintenance.

## Customer Focused

As a family owned business we know our customers. We know who they are, where they are, what they do and know their needs and constraints. We develop solutions that best match their needs to deliver on time and on budget while offering support with spares and expertise over the course of our products lifetime



# MAGELLAN PROJECTS

## AC & DC POWER SYSTEMS



### Dampier to Bunbury gas pipeline

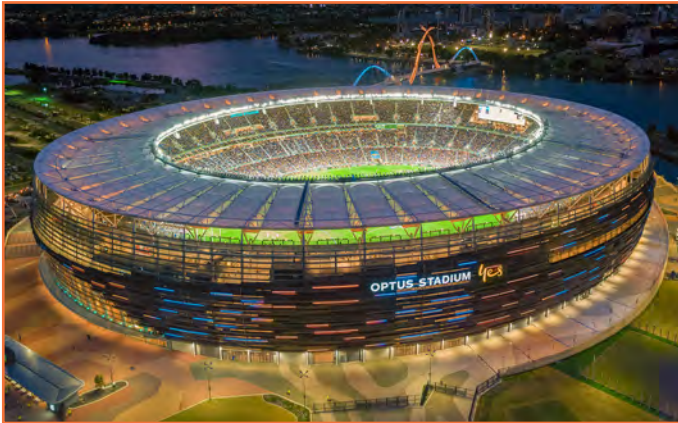
With the design commencing in 1979, the construction of the DBNGP was the biggest infrastructure project Western Australian had ever seen. After almost three years in planning, construction on the pipeline was launched in 1982. Natural gas was introduced into the pipeline in 1984 and in 1985 the pipeline was extended to Bunbury. The DBNGP is WA's key gas transmission pipeline stretching almost 1600 kilometres, linking the gas fields located in the Carnarvon Basin off the Pilbara coast with population centres and industry in the south-west of the state. Magellan Power has been involved in the project for over 20 years, supplying DC back-up power systems in the 1990's and now, upgraded systems in the compressor stations.





# MAGELLAN PROJECTS

## COMMERCIAL UPS



### Optus Stadium | Perth

The Perth Stadium is a major sporting and entertainment venue, capable of attracting national and international events to Perth. With 60,000 seats the standard of the stadium is world class. Magellan was approached by the project contractor to offer a solution for providing filtered 640kVA power for essential loads at the stadium, whilst providing 20 minutes back-up in the case of black out.

### Crown Tower Project | Perth

Crown Towers is the largest hotel constructed in Western Australia, incorporating 500 luxury rooms, suites and villas within a world-class resort complex. The Crown Towers also contained a new hotel reception, bars, restaurants, ballrooms and conference facilities.



Magellan Power provided 3 x 160kVA UPS's and 2 x 200kVA modular UPS's for the Data Centre, plus Magellan Batteries, preventative maintenance and 24-hour-support.

# MAGELLAN PROJECTS

## ENERGY STORAGE

### Onslow Power Project

1 MW/500kWh Utility Scale Energy Storage System.

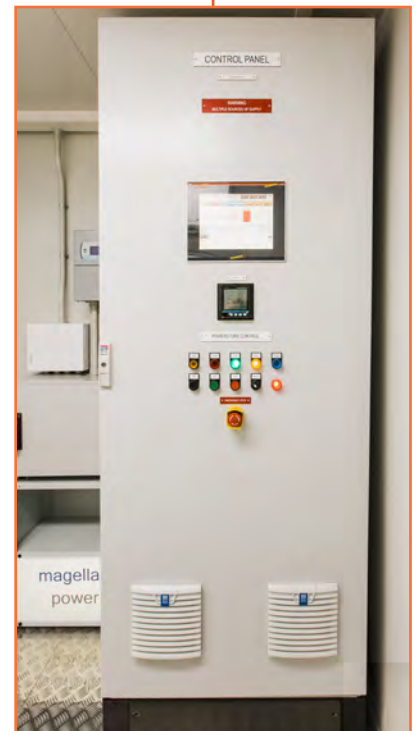
Magellan Power delivered the Utility Scale Battery Storage System to one of Australia's largest solar and storage based microgrid projects - the Onslow Power Project in early 2018.

The first stage of the project consisted of a new 5.25 MW gas-fired power plant which used a Magellan Utility Scale Energy (Battery) Storage System to optimise the efficiency of the power station and provide flexibility in managing future renewable growth of the town.

Magellan supplied state of the art 1MW/500kWh battery storage systems in two 20-foot containers.

The completed battery storage will be used for Spinning Reserve and Black Start applications.

Onslow is located near to Chevron's Wheatstone Gas Project, and has a growing demand for energy. The infrastructure for this project caters to this need, whilst using the latest in Australian renewable and battery storage technology.





# MAGELLAN SERVICE & COMMISSIONING



The Magellan Power Service Department is a vital components of our "Steadfast Support of Our Customer" value. It has been formed to support our promise to our customers of peace of mind when it comes to the reliability and dependability of our products.

Magellan Power's Service Technicians are the industry's leading experts in the provision of support through preventative and on site repair services, which can eliminate the downtime of your power equipment.

Our technicians are fully trained in all aspects of AC/DC repair and refurbishment and will bring to you the collective knowledge and experience of the entire Magellan Power design and manufacturing team.

We provide qualified and certified electrical technicians, specialising in Magellan Power products.

Full Service Report: Following a service, a full report is submitted to the customer, with details of the repair undertaken, recommendations of action, and a quote for additional items if needed.

#### Service Procedure:

1. Comprehensive visual and mechanical inspection.
2. Functional test.
3. Full battery health check including battery capacity test if feasible.

At the completion of each service, a full service report will be submitted. The report will also mention any corrective action to be undertaken, and will provide a formal quotation for the rectification if required.

#### Insurances:

1. Workers Compensation
2. Public Liability Insurance
3. Marine Insurance

Magellan provides preventative maintenance services for the following Magellan products and batteries:

1. Magellan Power MCRI and MCRII DC UPS Systems.
2. Magellan Industrial UPS Systems.
3. Magellan Commercial UPS's.
4. VRLA, Lithium and NiCad batteries.



# MAGELLAN QUALITY CERTIFICATION

**BUREAU VERITAS**  
Certification



## Certification

Awarded to

### **MAGELLAN POWERTRONICS PTY LTD**

**64 BUSHLAND RIDGE, BIBRA LAKE, WA 6163  
AUSTRALIA**

Bureau Veritas certify that the Management System of the above organisation has been audited and found to be in accordance with the requirements of the management system standards indicated below

#### STANDARD

**ISO 9001:2015**

#### SCOPE OF SUPPLY

**RESEARCH AND DEVELOPMENT, DESIGN, MANUFACTURE, SUPPLY AND SERVICE  
OF POWER ELECTRONIC AND RENEWABLE ENERGY EQUIPMENT AND SUPPLY  
OF INDUSTRIAL BATTERIES**

Original Approval Date: **13 November 2006**

Subject to the continued satisfactory operation of the organisation's Management System,  
this certificate is valid until: **12 November 2021**

To check the validity of this certificate please call tel. **1800 855 190**

Further clarification regarding the scope of this certificate and the applicability of the Management System requirements may be obtained  
by consulting the organisation.

Certificate Number: **AU003018-1**

Date: **17 August 2018**

Andrew Mortimore  
Vice President – I&F Pacific Region

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Port Melbourne, Victoria, 3207

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Port Melbourne, Victoria, 3207

**JAS-ANZ**





# Major Clients

Among many others, these organisations trust Magellan Power for products and service.



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