

# CAPS BESS INTELLIGENT ENERGY STORAGE SYSTEMS



 **CAPS**

**BESS**

# CAPS AUSTRALIA COMPLETE AIR & POWER SOLUTIONS

**CAPS Australia is a privately owned and proud Australian company intent on remaining at the forefront of compressed air, gas generation and power generation solutions.**

## **WHO IS CAPS AUSTRALIA?**

- Over **40 years of experience** in the Australian market.
- **9 branches** reach right around the country with **over 160 employees**.
- **60 service technicians** covering the full national footprint with a **24/7 service** offering.
- A vast inventory of **spare parts**.
- An **independent company** with the flexibility to search globally for the best products and technologies that best serve the **Australian market's needs**.
- CAPS has world-renowned partner brands such as Ingersoll Rand, Kohler, AIRMAN, Sauer, Pedro Gil and many more.
- **Custom design, manufacturing, supply and service**
- ISO 9001 accredited facilities

## **WHO DO WE SERVE?**

- Mining
- Manufacturing
- Food and beverage
- Waste water treatment and
- Oil and gas
- And much more throughout Australia and internationally, having exported turn-key packages to over 35 countries.



*"At CAPS, we think outside the box to develop integrated, agile solutions that are designed around the specific need of our customers."*



**A family  
owned  
Australian  
business**

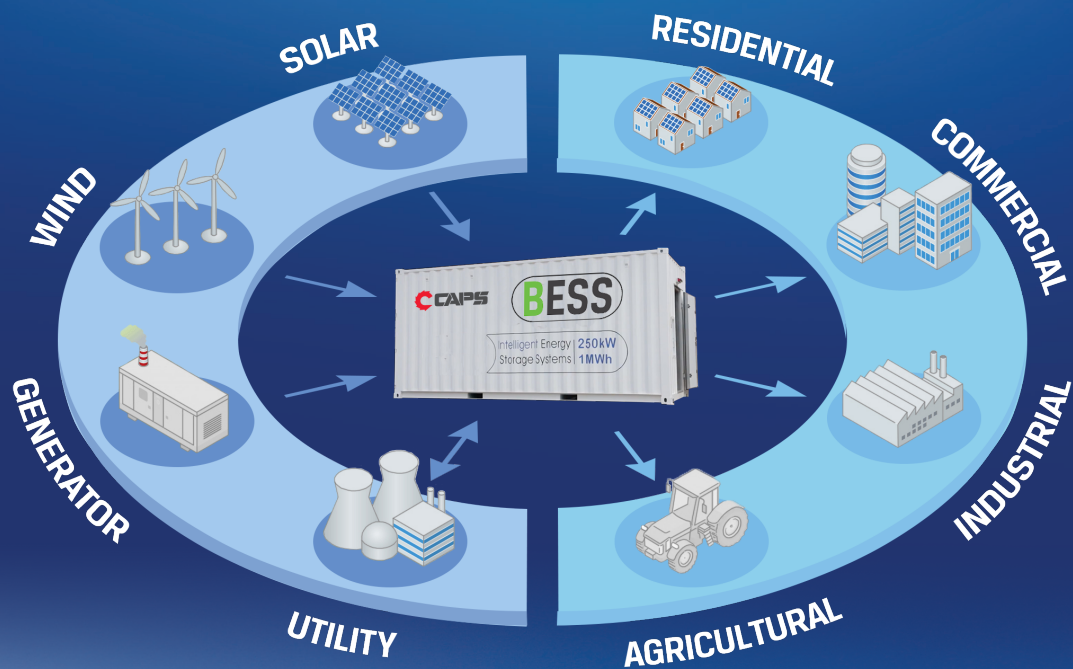
# PERFECT ENERGY STORAGE FOR AUSTRALIAN CONDITIONS

The CAPS BESS is an efficient, reliable and smart containerised energy storage system. It is designed to provide backup power, intelligent energy storage management and integration with a wide variety of inputs and outputs. Available in either a 10ft, 20ft or 40ft ISO CSC container, the BESS is designed to be cost-effective, safe, easy to transport, scalable and integrated to the specific energy requirements of our clients.

## A MULTITUDE OF APPLICATIONS

The CAPS BESS provides complete flexibility to the needs of each client and site application.

It can support a variety of inputs and functions, allowing it to provide reliable power and cost savings to various segments including mining, agricultural, industrial and commercial sites.



## SCALABILITY

The ability to chain additional battery energy storage units allows for the flexibility to grow with your future energy needs.



# FEATURES



## GRID TIED OR OFF-GRID

Incorporate existing PV installations or generators alongside your utility inputs or disconnect completely.



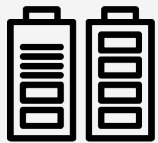
## LOAD SHIFTING AND PEAK-SHAVING

Reduce your cost by proactively managing overall demand: charge during off-peak tariffs, discharge during peak tariffs and eliminate your high demand charges.



## POWER FACTOR CORRECTION

Bring your network into a unified state. Allow CAPS BESS to manage your leading/lagging currents and save on additional costs.



## BACKUP POWER ANYTIME

Ensure you are always online. In the event of a network failure you always have a reliable, cost effective partner in the CAPS BESS.

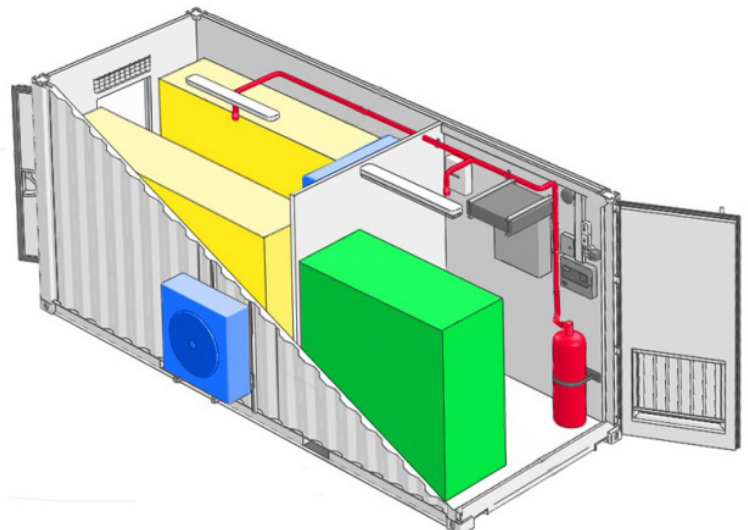
# CONTAINERISED ENERGY STORAGE MADE EASY

Turnkey, plug-and-play energy storage system, the BESS is built for modularity and integration with a variety of sites and applications.

Each BESS is engineered to an individual client, site or application. Single units can be constructed from 250kWh to 1.6MWh, with the ability to expand your installation as your energy requirements change.

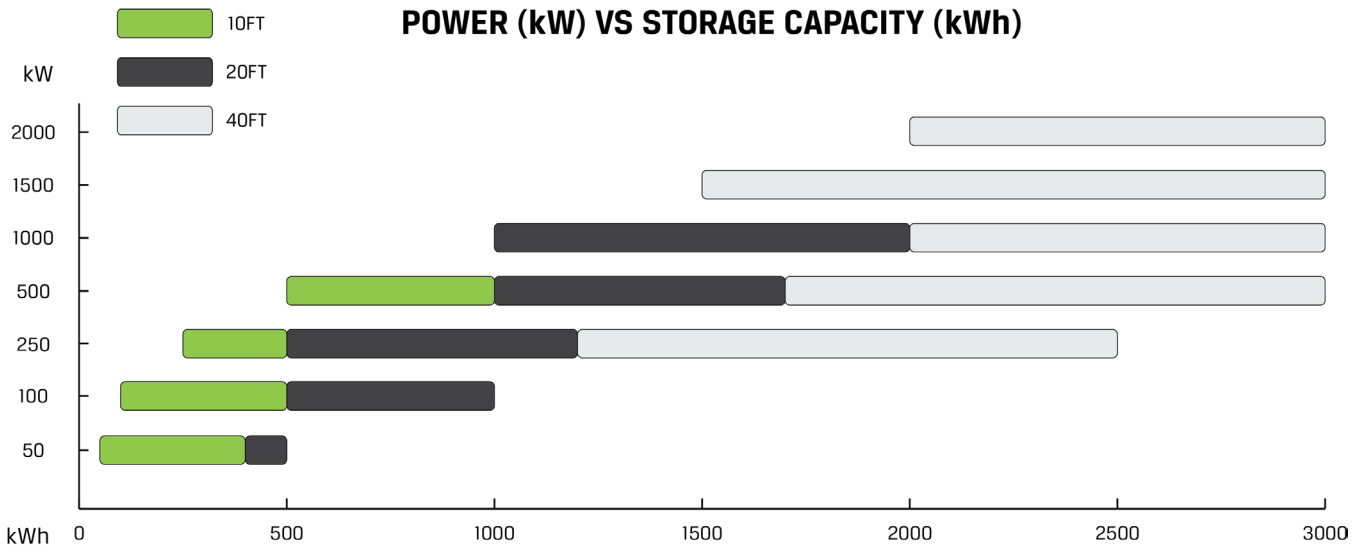
The BESS consists of the following components:

- Inverter
- High-voltage lithium-ion battery pack
- BMS (Battery Management System)
- RMaC (Remote Monitoring and Control)
- HVAC
- Fire Suppression System
- Access control
- UPS and emergency stop
- Internal electrical distribution



# BATTERY SIZING CHART

The following graph can be used as a quick reference to size the battery based on the energy output required over a specific duration.



## SYSTEM OVERVIEW



<b>System</b>	
Rated AC Power	500kW - 2000kW
Battery Chemistry	Lithium Iron Phosphate (LiFePO4)
Power Conversion System (PCS) configuration	B-directional rectifier/inverter with seamless back-up
Modularity	Expandable, either via adding 20ft or 40ft containers
Available AC voltage (3-phase)	Low Voltage: 400 - 415V (4-wire) Medium Voltage: 11kV, 3.3kV etc via external step-up Tx
Operating Environment	-20C to 60C, harsh industrial applications
Degree of Protection	IP54
Relative Humidity	0~95% (non-condensing)
Fire alarm	Included as standard - FM200 (Optional custom built fire protection system)
Round Trip Efficient (RTE)	Typically > 88%
Battery Warranty	10 years or 4600 cycles
Communication	Modbus TCP, CAN, Modbus RTU
Compliance and Standards	IEC 62619:2017/UL-1973:2018/UN38.3 EN61000-6.3; EN 61000-6-4; EN 61000-6-2

# 24/7 RAPID RESPONSE NATIONWIDE SUPPORT

## 10 BRANCHES SERVICING ALL AUSTRALIA



### AUSTRALIA WIDE

With our extensive network of branches and regional service locations, CAPS can service anywhere in Australia.

From the metro area through to a remote mine-site, we have you covered with experts located all around Australia.

### SPARE PARTS

A complete range of spare parts and accessories to help you get the most out of your industrial equipment.



### HIGHLY TRAINED TECHNICIANS

Enjoy the peace of mind of having an expert at your doorstep. **Their knowledge is continually updated**, and they have the model by model knowledge to fix your compressor first time, every time.

Whether you have one compressor or have complex systems with multiple pieces of equipment, **our technicians will give you the advice you need to ensure continuous operation.**

They can even give your compressor a new lease on life with an overhaul or airend rebuild, saving you thousands on replacement costs.

### PREVENTATIVE MAINTENANCE

We're always aiming to help you to **reduce operating costs and interruptions to your production.** Our factory-authorised programs include routine inspections, oil analysis, condition monitoring and the use of sophisticated diagnostic equipment to identify any potential problems before they impact you.

### SAFETY COMPLIANCE

Safety is a core value of CAPS and our goal is never to put people, plant or the environment at risk. You can be confident that our technicians will be **completely compliant to any site specific safety requirements** you have.

## NATIONAL HIRE

### LONG TERM AND SHORT TERM HIRE AVAILABLE

At CAPS, we have a large range of equipment that's suitable for every kind of project.

CAPS check their equipment before every hire to ensure the highest standard of safety and service. When you hire through CAPS you are speaking to experts who can assist you with selecting the right equipment for the job every time.



Hire and you protect your staff, control your costs, avoid depreciation, maintenance and borrowing expenses.

# CORE PRODUCTS

## AIR COMPRESSORS

ROTARY SCREW



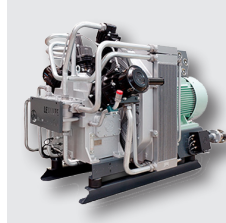
PORTABLE DIESEL



OIL FREE



HIGH PRESS. RECIPS.



SMALL RECIPS.



## AIR BLOWERS

ROTARY LOBE

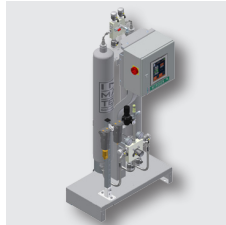


CENTRIFUGAL



## GAS GENERATORS & COMPRESSORS

NITROGEN



OXYGEN



OTHER GASES



## AIR TREATMENT

AIR DRYERS



AIR RECEIVERS



FILTRATION



## TOOLS & MATERIAL HANDLING

TORQUE CONTROL



WINCHES & HOISTS



## POWER GENERATION & RENEWABLES

STANDBY



PRIME



BATTERY STORAGE



# ONLINE SHOPPING

[CAPSSHOP.COM.AU](http://CAPSSHOP.COM.AU)

If you are looking for spare parts or tools for your air and power equipment, visit our online shop.



# SOLVING YOUR AIR AND POWER CHALLENGES

AND NOW YOUR RENEWABLE ENERGY SOLUTIONS

**Inquiries:** 1800 800 878

**Service & 24/7 Support:** 1800 802 697

**Website:** [caps.com.au](https://caps.com.au)

**Shop:** [capsshop.com.au](https://capsshop.com.au)

**Email:** [info@caps.com.au](mailto:info@caps.com.au)

## BRANCH LOCATIONS

PERTH (HEAD OFFICE) | KALGOORLIE | MELBOURNE | SYDNEY | NEWCASTLE | ADELAIDE  
BRISBANE | MACKAY | DARWIN | LAUNCESTON

## INTERNATIONAL

MALAYSIA | GHANA



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