



**WE HAVE THE
ENERGY TO DRIVE
YOUR BUSINESS**

COMPLETE ENERGY SOLUTIONS
GENERATORS. TEMPERATURE CONTROL. AIR COMPRESSORS

**Energy Power
Systems**



TEN REASONS TO CHOOSE CAT[®] RENTAL POWER

- 01** Improve your productivity and profitability with Cat[®] reliability.
- 02** Access 24/7 support – one call, one company.
- 03** Secure rapid deployment for minimal downtime & disruption.
- 04** Assure project outcomes with a market-leading team working with an impressive customer base.
- 05** Acquire certainty: our staff are Cat[®] trained and Cat qualified.
- 06** Maximise your output to maximise your results.
- 07** Remote monitoring of our equipment on your site for greater reliability.
- 08** Secure your goals with an experienced Partner provided by a team with an extensive track record built over 25 years.
- 09** Supporting local people in diverse areas through our Cat[®] network of over 100 locations across Australia.
- 10** Cat[®] Power. Cat[®] Systems. Cat[®] solutions.



INTRODUCTION

Energy Power Systems Australia (EPSA) is the authorised supplier of Cat® engines, generator sets and engineered solutions in Australia, Papua New Guinea and the Solomon Islands.

No matter the industry or application, EPSA works in partnership with your business to find the most cost-effective solution for your energy requirements - rent, new and used.

EPSA provides Cat® emergency, temporary and critical power, prime and standby power, solar hybrid microgrid systems, diesel and gas generators, industrial engines, marine power, air compression and temperature control equipment.

EPSA is a full turnkey provider, offering – design, engineering, procurement, packaging, installation and commissioning of Cat® power generation systems.

Our equipment is backed by fully qualified and experienced Cat® technicians and support staff available 24/7.

EPSA is part of the Cat® Network across Australia: local people, local expertise, local parts with global support from the Cat® global network.

EPSA's Cat Rental Power has Cat® generators, compressed air and temperature control equipment available to hire for large or small projects.

CAT® RENTAL POWER

Long or short-term hire for any application
Immediate and on-time delivery and installation
for projects large and small.

EPSA's Rental Division has an extensive presence in the resources sector, providing mine site power, underground cooling, air compression, camp power, mobile site power, air compressors for drill rigs and power for mine and gas well dewatering.

Cat Rental Power is prolific in construction and civil works, supplying air compressors for pipeline construction, compressors and power generation for road, rail and building construction.

Cat Rental Power is responsive and reliable, whether providing back up and emergency power, and short term temperature control back up in a facility or providing the power generation and temperature control at expos and events.

Power for critical services - Police, Fire, Ambulance, Hospitals, Govt Services, Utilities etc.

In manufacturing and industrial processing, EPSA's Rental Division supplies temperature control and compressed air for food and wine production and temperature control for process water.

EPSA's national Cat® network of over 100 locations - fast mobilisation, set up and commissioning, reducing risk of delays or shutdowns, and decreasing your costs.

Rental of Cat® generators, compressed air and temperature control equipment for large or small projects.

BENEFITS TO A RENTAL SOLUTION ARE

- Latest equipment
- No capital investment
- Improved borrowing power
- Latest generation functional and programmable controllers
- No maintenance costs
- Minimised cost of breakdowns
- Maintained efficiencies
- Performance bonus
- No storage fees
- A supplement to core fleet
- Short or long term solutions



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We have had only positive experiences with the Cat® Rental Power team. They've gone out of their way to provide equipment when required, even with limited notice. Thumbs up from us!

//

Alberton Electrical Services (SA) Pty Ltd

**“
The commercial
and technical teams
at EPSA have been
very supportive and
accommodating to
develop, build and
deliver a quality
product both on
time and within our
allocated budget.
”**

Metronode Next Gen Group Holdings Pty Ltd





ENERGY SOLUTIONS

POWER GENERATION

EPSA's Rental Division offers an extensive and modern fleet of portable Cat generators. The Cat Rental Power fleet of generators are designed and built specifically to operate in the harsh Australian environment and deliver maximum output power at high ambient temperatures.

Generators range in size from 20 kVA to multi-megawatt installations and are rated for a low BSFC fuel usage.

Cat Rental Power generators with a rating of 150–2000kVA are available with a utility grade synchronising/paralleling generator controller.

EQUIPMENT

- Generators from 20 kVA to 2000 kVA
- Fuel tanks from 1000 to 68000 litre
- Transformers
- Switchrooms
- Distribution Equipment: single and three phase boards
- Ancillary equipment: LV cable, cable ramps

FEATURES

- 110% fully banded integral fuel tanks
- Lockable sturdy sound attenuated canopies
- High ambient capability
- High efficiency Cat engines
- Auto/manual start capability
- Easy customer connections
- Ease of operation and accessibility
- Lifting facilities

CONTROLLER FEATURES

- Same/different size generator paralleling
- Utility no break transfer
- Automatic mains failure
- Complete power management options for load sharing/paralleling on variable loads
- External control and operation
- Remote communication packages

APPLICATIONS

- Industrial processes
- Events
- Utilities
- Oil & Gas
- Mining
- Agriculture
- Shipping
- Critical Process
- Remote Accommodation
- Mineral exploration
- Facilities management
- Construction and Civil Works



ENERGY SOLUTIONS

POWER GENERATION RAPID DEPLOYMENT

The EPSA team are leaders in rapid deployment of multi MW power stations. We partner with businesses to find the best through-life cost benefit solution.

We are the trusted advisor for multi MW Rapid deployment power stations.

EPSA undertakes fast mobilisation, set up and commissioning, reducing risk of delays or shutdowns and decreasing costs.

We combine all internal capabilities to ensure you stay fully operational, from electrical engineering and technicians to logistics and operations.

EPSA's deployment capability has resulted in responsive deployment of power stations around Australia.





“

Great service,
professional
attitude of person
attending site, and
efficient works
completed within
the budget given.

”

Esmacc Pty Ltd

“
The Cat product is what our customers want. EPSA is always on hand to assist and provide great delivery performance – it would be foolish not to use Cat!
”

Weir Minerals Multiflo





ENERGY SOLUTIONS

TEMPERATURE CONTROLLED PROCESS

EPSA's Rental Division provides HVAC equipment and industrial cooling for long term emergency and temporary solutions. We have mobile temperature control equipment that is reliable, with the latest technology to help you through planned maintenance, shutdowns, emergency breakdowns, seasonal demand peaks or the summer heat.

We carry a full range of Fluid Chillers, Cooling Towers, Industrial Air Conditioners, Air Handlers, Heat Exchangers and Ancillary equipment, providing full packaged solutions to continue your production and maximise your profits.

We offer solutions across all industry sectors, reducing downtime and increasing productivity.

MINING

- Surface based underground mine cooling
- Underground mine spot cooling
- Transformer cooling
- Ball and Sag Mill loop cooling
- Vessel entry cooling for maintenance and re-lining of mills

INDUSTRIAL – SHUTDOWN & MAINTENANCE

- Acid towers
- Reactors
- Autoclaves
- Rectifiers
- Furnaces
- Roasters

PROCESS

- Supplementary cooling tower water
- Chilled water circuits
- Large motor cooling
- Lube oil cooling
- Dense Air Injection for Turbines

FOOD & PACK

- Additional cooling capacity
- Product quenching
- Conveyor cooling
- Product storage

FACILITIES MANAGEMENT

- Additional cooling capacity
- Mechanical
- Service support
- During planned and unplanned shutdowns
- Equipment upgrades and changeovers



ENERGY SOLUTIONS

TEMPERATURE CONTROLLED MINE COOLING

EPC cooling constructions give the flexibility to design and build to your mine specifications.

EPSA provides expert industry design and electrical engineering:

- Mine compliant HVAC equipment–
- Custom built - specific to the needs of your mine
- OHS compliant
- Modular
- Maintained and serviced by EPSA
- EPSA monitor on site or remotely
- Finance options available
- Short lead times for delivery and installation

EPSA has a proven track record in the deployment of temperature control equipment. EPSA delivers a solution to temperature control that helps you:

- Maintain a safe working temperature
- Increase the work hours at the working surface
- Improve underground conditions
- Opex your expense
- Avoid seasonal shutdowns
- Increase productivity





“
Easy to
deal with.
No nonsense
approach.

”

Tropicair Limited



ENERGY SOLUTIONS

COMPRESSED AIR

Cat Rental Power compressors are fitted with the latest Cat® Tier 3 engines for emissions compliance – designed to maintain the most critical components of your production.

EPSA's Rental fleet are fully enclosed, highly sound attenuated and have rotary screw air ends to provide the most efficient and reliable air compression. Each Cat unit comes assembled with all interconnecting piping and standard BSPP fittings.

Each unit is self-bunded to stringently protect against ground contamination.

Our oil-flooded compressors come fitted with after coolers, moisture separators and user-friendly control panels.

EQUIPMENT

- Air Compressors from 185 – 1600 cfm; 100 – 500 psig
- Oil Flooded and 100% Oil Free units available
- Standard, medium and high pressure air
- Two stage high pressure units – after cooled
- Silenced
- Desiccant dryers to minus 50 degrees Celsius PDP
- Filter packs to 0.01 PPM
- Hoses
- Receivers
- Manifolds
- Fuel tanks
- Booster packs to 1000 psi; and

APPLICATIONS

- Chemical and petro chemical – process/instrument air
- Industrial and manufacturing – process/instrument air
- Pipeline – pigging, hydro-testing and drying air
- Construction – process and tool air
- Wineries – process/instrument air
- Pharmaceuticals – 100% oil free air
- Drilling services – low and high pressure air
- Electronics – 100% oil free air
- Fibre Optics – dry air, 100% oil free air
- Aluminium – 100% oil free, process, instrument air

ADDITIONAL SERVICES

- Critical air supply back-up
- Contingency planning
- Long term rental options



“
Couldnt ask for
better service.
Cat brands will
always be first
choice.”

“
Avopiling Holding Pty Ltd

“
EPSA provided us with a turnkey solution to meet the requirement for a power plant capable of exporting a full 10 MW at all times, including very hot days where temperatures exceed 40 degrees Celsius. The solution included connection to the local gas and electricity networks.
”

NovaPower





ENERGY SOLUTIONS

REMOTE MONITORING

EPSA's Rental Division has the added feature of Remote Monitoring that enables you to monitor your Cat® Power Systems from any location in the world. Scalable live monitoring enables you to stay connected to your rental equipment.

BENEFITS TO YOUR BUSINESS

- Optimise your equipment's performance
- Increase uptime and reduce down time
- Save on time, resources and costs of travel for repair
- Keep your people safe – reduce risk of injury
- Drive production and increase performance efficiencies

WITH REMOTE MONITORING YOU CAN

- View performance data in real time
- Proactively monitoring equipment before variances become a problem
- Receive personal notifications and customised data exports
- Conduct preventative service management that will improve efficiencies
- Optimise fuel efficiency
- Expand networks and control other third party devices
- Use location tracking with ability to geo fence

TOTAL COST OF OWNERSHIP AND OPERATION

EPSA Work to partner with businesses to find the best through-life cost-benefit solutions.

EPSA manages your turnkey project – from cost estimation and planning to design and scheduling through to procurement, installation and commissioning. We'll deal with statutory approval bodies, subcontractors and suppliers.

DESIGN & ENGINEERING

- Feasibility and concept design
- Load analysis
- Engine sizing/selection
- Noise modeling
- Earthing and protection studies
- Utility approvals and permitting
- Environmental and emissions modeling
- Construction approvals
- Mechanical and electrical design
- Systems Integration
- Whole of life costing

TESTING

- Factory assessment testing
- On-site testing
- Surveys
- Control and monitoring system testing

PROJECT MANAGEMENT & CONSTRUCTION

- Turnkey project and site management
- HS&E documentation and management
- Quality system documentation and management
- Risk assessment and management
- Subcontractor management
- Procurement
- Off-site fabrication
- Customised project-specific manuals and documentation

INSTALLATION & COMMISSIONING

- Integrated site installation and construction
- Construction supervision
- Specialist engine and generator technicians
- Installation of electrical and balance of plant systems
- Fuel system installation
- Exhaust system installation
- Specialist on-site services



“

No problem with the service or the sales team... the goods were sourced efficiently and progressive updates were accessible.

”

PNG Concrete Aggregates

“
We have been working closely with Energy Power Systems Australia for several years. They deliver a world-class product, complemented by product and support second-to-none.
”

Drill Rigs Australia



PROVEN EXPERIENCE

EPSA's Rental Division have the experience and know how to drive your project.

Here are the recent projects to prove it.

BUILD OWN OPERATE

Customer	Site	Capacity	Fuel Type
Rio Tinto Alcan – NT	Gove Operations	10 MW Build, Own, Operate	Diesel
Roy Hill – WA	Mine Standby PS Infrastructure	35 MW Build, Own, Operate	Diesel
Roy Hill – WA	Port Temporary Power Station	35 MW Build, Own, Operate	Diesel
Silverlake Resources – WA	Daisy Milano	6 MW	Diesel
Bechtel/Chevron – WA	Wheatstone Village	20.8 MW Build, Own, Operate	Diesel
Bechtel/Chevron – WA	Wheatstone Compaction Site	4.8 MW Build, Own, Operate	Diesel
Bechtel/Chevron – WA	Wheatstone Construction North	8.0 MW Build, Own, Operate	Diesel
Bechtel/Chevron – WA	Wheatstone Construction South	17.6 MW Build, Own, Operate	Diesel
Bechtel/Chevron – WA	Wheatstone Standby	6.4 MW Build, Own, Operate	Diesel
Mines	Mt Isa	14 MW	Diesel
Ventia	Darwin	20 MW	Diesel
BHP	Yarnima	14 MW	Diesel
BHP	Newman	32 MW	Diesel
Rio Tinto – WA	Mesa A	5 MW	Diesel
Power & Water – NT	Katherine – Peak Lopping	5.7 MW Turbine	Gas
Ergon Energy – QLD	Cyclone Yasi Disaster Response	23 MW	Diesel
Power & Water – NT	Darwin –Substation Failure	18 MW	Diesel

FRONT-END ENGINEERING DESIGN

We deliver bespoke design work for your site and your application. Energy Power Systems Australia (EPSA) has the in-house capabilities to perform a range of engineering tasks from Front End Engineering Design (FEED) through to Detailed Design, ensuring that reliable power products integrate seamlessly with the balance of plant.

Using the information prepared during the Client Feasibility Study and Conceptual Design, EPSA acts on your behalf to conduct further investigations based on your technical requirements. This information provides a basis for detailed engineering, procurement, construction and management by EPSA's in-house Engineering Consultants.

We have the expertise to provide you with a high quality specification document to utilise in your Request-For-Tender.

EPSA can enhance your existing relationships with consultants by providing expertise in power generation.

EPSA ENGINEERING SERVICES INCLUDE

- Generator sizing
- Site layout / General arrangement drawings
- Fuel system calculation and layouts
- Pipe & Instrumentation Diagrams
- Process flow diagrams
- Basis of design
- Scopes of work
- Single line diagrams
- Schematics
- Cable calculations and cable schedule
- Material take offs
- Load flow and short circuit studies
- Earthing studies / drawings
- Equipment specifications, including balance of plant
- Equipment sizing, including balance of plant
- Equipment datasheets, including balance of plant
- Control system operating philosophies
- Control system architecture drawings
- Input / Output Lists
- Cost estimates based on market requisitions
- Project scheduling
- Analysis of existing system for integration purpose

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Thank you for your support during the whole project process, and thank you for your tireless support whilst on site. Ongoing offsite support with the genset updates via modem uplinks, even over weekends, alerted us to battery charging issues that we were able to rectify in time before the genset was affected!

//

Paul Ailakis, Argyle Diamond Mine Ltd Rio Tinto

PRODUCT INFORMATION

DIESEL & GAS GENERATORS

20-150 KVA POWER GENERATION
150-500 KVA POWER GENERATION
810-2000 KVA POWER GENERATION



Generator Description	Prime 50Hz kVA	Engine	Dimensions					Utility Configured
			Length mm	Width mm	Height mm	Wet Weight Kg	Configuration	
CG-0020	20	404D-22G	1684	860	1253	757	Canopy	No
CG-0030	30	1103C-33G2	2288	1130	1660	1836	Canopy	No
CG-0060	60	1104C-44TG2	2900	1130	1940	2587	Canopy	No
CG-0080	80	1104C-44TAG2	3280	1130	2060	2843	Canopy	No
CG-0100	100	1104C-44TAG2	3280	1130	2060	2936	Canopy	No
CG-0150	150	1106C-E66TAG3	3558	1130	1943	3300	Canopy	Yes
CG-0200	200	1306C-E87TAG4	4150	1395	2140	4752	Canopy	Yes
CG-0250	250	1306C-E87TAG6	4150	1395	2140	4912	Canopy	Yes
CG-0300	300	CAT C9 Acert	4065	1400	2124	4518	Canopy	Yes
CG-0350	350	CAT C13	4940	1680	2817	7522	Canopy	Yes
CG-0500	500	CAT C15	4930	1620	2167	5896	Canopy	Yes
CG-0810	810	CAT 3512B	6058	2438	2896	17010	Container	Yes
CG-1000	1000	CAT C32	6058	2438	2896	19310	Container	Yes
CG-1500	1500	CAT 3512B	6058	2438	2896	23800	Container	Yes
CG-2000	2000	CAT 3516B	12192	2438	2896	33106	Container	Yes

PRODUCT INFORMATION

AIR COMPRESSORS (100% OIL FREE & OIL FLOODED)

COMPRESSED AIR STANDARD MED PRESSURE

330 – 1600 cfm,
80 – 150 psi

COMPRESSED AIR HIGH DUAL PRESSURE

330 – 1350 cfm,
80 – 500 psi

COMPRESSED AIR 100% OIL FREE

80 – 1550 cfm,
75 – 150 psi



Compressor Description

Standard Pressure 7-10 bar Oil-Injected

CA-0185

CA-0330

CA-0375

CA-0400

CA-0425

CA-0900

CA-1050

CA-1600

CA-1700

Medium Pressure 10-14 bar Oil-Injected

CA-0330

CA-0400

High Pressure 17-35 bar Oil-Injected

CA-1130

CA-0900/1150

CA-1300

100% Oil-Free Air (Class '0')

CA-1500

CA-1550

Engine	Free Air Delivery (CFM)	Pressure (PSI)	Configuration	Weight and Measurements				
				Length mm	Width mm	Height mm	Wet Weight Kg	Sound Level dBA (7m)
C2.2	185	100	Road towable trailer	3250	1600	1400	1100	72
C4.4	330	125	Road towable trailer	4120	1960	1900	1928	72
C4.4	375	100	Road towable trailer	4074	1788	1818	1817	76
C4.4	400	150	Road towable trailer	4074	1788	1818	1817	76
C4.4	425	150	Road towable trailer	4120	1960	1900	2014	76
C9	900	150	Wagon (non road)	3330	2265	2450	5050	76
C9	1050	150	Wagon (non road)	4900	2150	2500	5300	76
C15	1600	150	Wagon (non road)	4500	2235	2530	8280	76
C15	1712	150	Wagon (non road)	5690	2250	2510	7400	81
C4.4	330	200	Road towable trailer	4120	1960	1900	1928	72
C4.4	400	200	Road towable trailer	4074	1788	1818	1817	76
C15	1130	500	Wagon (non road)	4910	2100	2460	6650	76
C15	900	500	Wagon (non road)	4547	2235	2515	7126	76
C18	1284	365	Wagon (non road)	6620	2249	3000	8325	76
C18	1500	150	Wagon (non road)	6006	2270	2772	11200	81
C15	1550	100-150	Canopy	5971	2235	2489	11340	76

PRODUCT INFORMATION

TEMPERATURE CONTROL UNITS

2500 KW COOLING TOWER

packaged, rugged, transport frames,
heating and cooling, variable speed

HEAT EXCHANGE

preconditions temperatures,
increases/decreases temperatures

200 – 1900 KW FLUID CHILLER

packaged, rugged transport frames

COMMERCIAL AIR CONDITIONER

4.5 kW spot cooler



Temperature Control Description	Configuration	Capacity kW	Flow Rate lps
Fluid Chillers			
Air Cooled	Skid	220	8.9
Air Cooled	20' ISO Container	525	21
Air Cooled	20' ISO Container	600	21.1
Air Cooled	20' ISO Container	700	27.7
Water Cooled	20' ISO Container	1500	60
Water Cooled	20' ISO Container	1900	80
Cooling Towers			
Forced Draft	20' ISO Container	2500	77.5
Air Handlers			
Fin Fan - Direct Drive Fan	Skid	140	3
Fin Fan - Direct Drive Fan	Skid	310	6.8
Fin Fan - Direct Drive Fan	Skid	465	10
Fin Fan - Belt Drive Fan	Skid	1900	30
Heat Exchangers			
Stainless Steel Plate	Skid	700	30

TEMPERATURE CONTROL

15 – 100 KW INDUSTRIAL AIR CONDITIONER

packaged, rugged transport frame, heating and cooling, variable speed

100 - 1900 KW INDUSTRIAL AIR HANDLING UNITS

packaged, rugged, transport frames, heating and cooling, variable speed



Temperature Control Description	Configuration	Capacity kW	Flow Rate Ips
Air Conditioners			
Fin Fan	Mobile on Castors	5	0.22
Reverse Cycle - Cool	Skid	17	1.04
Reverse Cycle - Heat	Skid	17	1.04
Reverse Cycle - Cool	Skid	100	5.3
Reverse Cycle - Heat	Skid	74	5.3
Fluid Pumps			
Centrifugal	Skid		10
Centrifugal	Skid		30
Centrifugal	Skid		80
Centrifugal	Skid		100

CAT® NETWORK NATIONWIDE



**Energy Power
Systems**

**ONE NETWORK.
ONE CALL 1800 800 441**

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