



POWER TO MATCH YOUR CHALLENGE



CAT® DIESEL
GENERATOR SETS
LET'S DO THE WORK.™

**Energy Power
Systems**



THE NO.1 ENGINE SUPPLIER IN AUSTRALIA

Energy Power Systems Australia (EPSA) is the exclusive supplier of Cat® engines, generators and power solutions in Australia, Papua New Guinea and the Solomon Islands.

Since commencing business over 25 years ago, EPSA has become the industry leader in the supply and installation of engines and generators in Australia.

WE'RE BUILT TO PROVIDE INTEGRATED SOLUTIONS FOR ALL YOUR POWER NEEDS.



A POWERFUL ADVANTAGE

We deliver you technically superior Cat products with unmatched engineering support, technical advice and after sales support through our Cat® dealer network of branches, stores and workshops at over 100 locations throughout Australia, PNG and the Solomon Islands.

EPSA is a solutions provider, offering DESIGN, ENGINEERING, PROCUREMENT and CONSTRUCTION for turnkey projects of all sizes and across a broad range of applications.

EPSA delivers engineered packages best equipped to handle Australia's harshest conditions, we tailor a customised solution for you.

We better meet the needs of our customers with Cat product, engines backed up by the extensive Cat network and Cat technical expertise. This means quicker delivery times, faster response times, local people, superior sales and service, support and face to face time with your EPSA representative.

OUR NEXT GENERATION CAT[®] DIESEL GENERATOR SETS ARE BUILT WITH A RANGE OF CAPABILITIES, BUILT WITH A DURABLE DESIGN, BUILT FOR YOUR POWER DEMANDS.

Trusted to power the places that drive your business, designed to deliver reliable energy in the harshest environments. Choose prime power or standby, available in a range of configurations with a variety of optional equipment.

Every major component must pass inspections before the entire unit is tested above 100 per cent of the rated load for safety and continuity of operation. We're ensuring the products you invest in are built for the demands of your environment. And our ready-to-run packages are always backed by our expert Cat team. From a fast delivery to scheduled maintenance, we promise complete dealer support for the life of your generator set.



BUILDING YOUR GENERATOR SET WITH ADVANCED SYSTEMS

ENGINE

Reliable Cat diesel engines power gensets that deliver industry leading fuel efficiency and product life. Service points are positioned for safe and easy access.

GUARDS

Heavy-gauge steel guarding with access hatches to all rotating parts, including cooling fan, charging alternator and drive belts. Optional exhaust manifold and turbocharger guards are available, if required.

STARTER MOTOR, ALTERNATOR, BATTERIES AND CABLES

All gensets can include industry-leading, high-capacity, maintenance-free batteries, battery rack and heavy-duty interconnecting cables with terminations.

VIBRATION ISOLATORS

Rubber pad anti-vibration mountings isolating the tank base and control tower from engine/generator assembly can be provided.

SKID BASE with optional BASE FRAME

Optional base frame incorporates enhanced lifting and mounting points. Anti-vibration pads affixed between the engine/generator feet and base isolate rotating parts. Optional dual wall steel base frame for total fluid containment is available with enclosed sets and an optional narrow skid base is available for most open sets.

WIRING

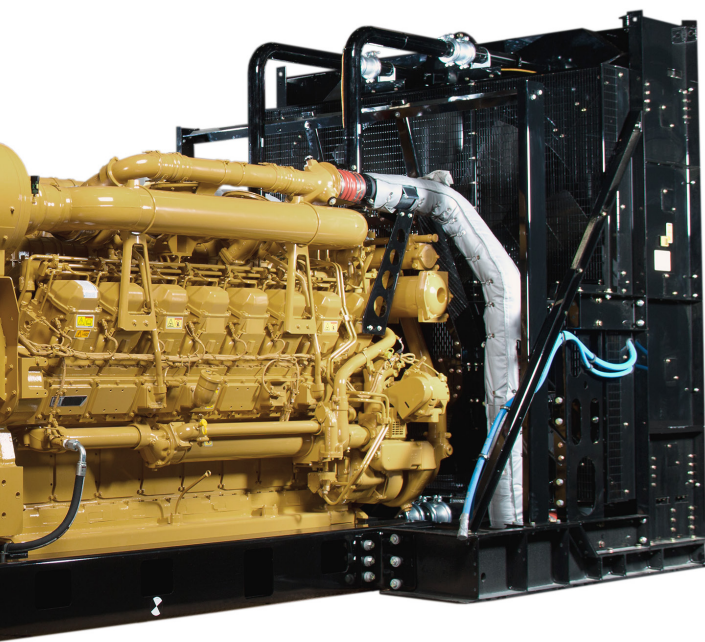
The loom terminates at the control panel with an industrial-grade multi-pin connector. Mechanically held plug and socket attachments facilitate fast, convenient inspection and replacement of systems. Looms are "keyed" to prevent incorrect installation.

RUNNING TIME

Our redesigned fuel tank typically gives you eight hours of performance at 100 per cent of the rated load in prime applications.



A COMBINATION OF ADVANCEMENTS IN ELECTRONICS, AIR MANAGEMENT AND FUEL DELIVERY GIVES YOU THE ENGINE PERFORMANCE THAT YOUR APPLICATION DEMANDS.



FILTERS

Disposable air filter, optional canister type with single or dual element. All air filters incorporate a service indicator. Oil and fuel filters are replaceable canister type.

CONTROL PANEL

Standard EMCP4.2 control panel is fully equipped with all necessary engine gauges, AC meters and warnings.

Paralleling and synchronising options are available.

OPTIONAL CIRCUIT BREAKERS

Three and four pole circuit breakers available, housed in vibration-isolated sheet steel enclosure, with removable cover plate, mounted integrally with generator set. Oversized electrical stub-up area is located directly below circuit breaker and can be terminated both vertically and horizontally.

VOLTAGE REGULATOR

Improved load acceptance with R450. Fully sealed regulator accurately maintains load voltage at +0.5 per cent from no load to full load.

GENERATOR/ALTERNATOR

Advanced Cat self-exciting, self-regulating brushless generators are built for extended, dependable life. Features include fully interconnected damper windings, cooling systems, sealed bearings, Class H insulation and 2/3 pitch with THF <2% and TIF <50.

STANDBY POWER

A turnkey Cat power system from EPSA means smooth, worry-free standby power for your business, factory, mine site, hospital or data centre. We'll recommend a reliable engine/generator combination that best fits your application. Every package is subject to rigorous pre-installation testing at the Caterpillar factory and at EPSA facilities.

THE RIGHT TECHNOLOGY WITH THE RIGHT SUPPORT

**Cat generator sets
- a sleek design with
superior functionality.**

**Built compactly and
self contained, they
are even easier to
own and operate.**

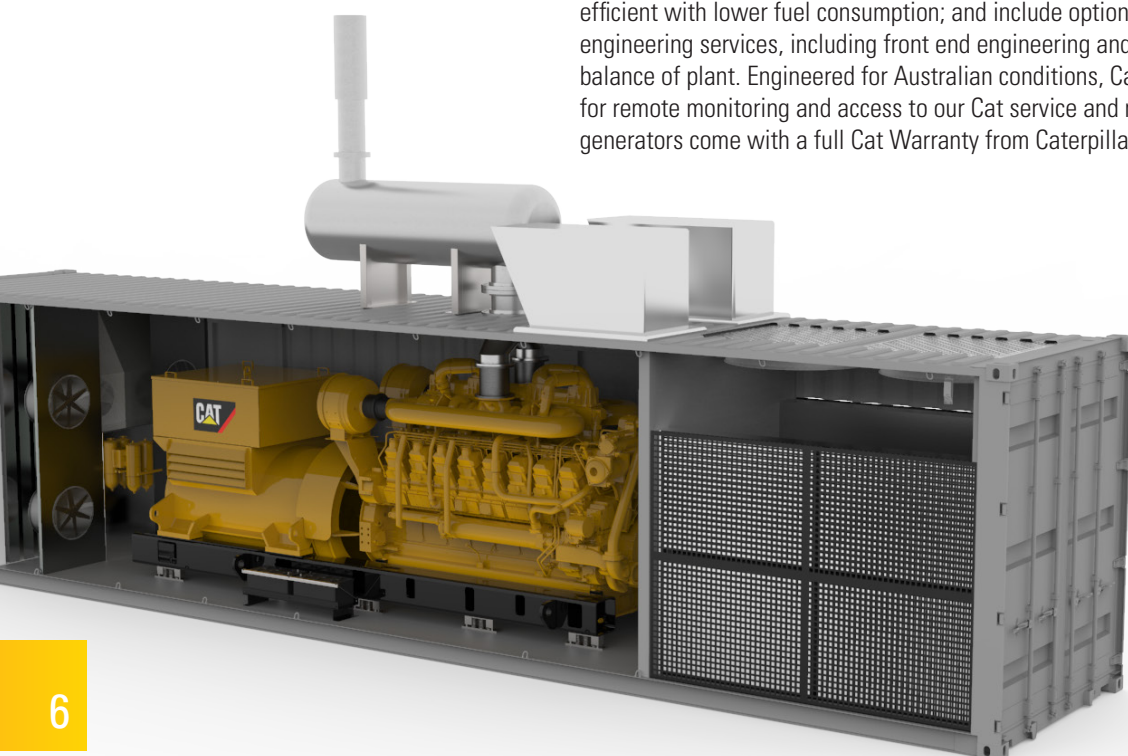
STANDARD AND OPTIONAL FEATURES*

- Engine lubricating oil
- Antifreeze/corrosion inhibitor coolant fill
- Steel tank base with drip tray, lifting and dragging points
- Vibration isolators between engine/generator mounts and tank base
- Battery charging alternator
- Enlarged battery rack and cables, installed on tank base
- 3- and 4-pole 100 per cent rated, IEC compliant circuit breaker
- Optional motorised circuit breaker available
- Factory tested to full load specifications
- Full protective guarding with access hatches
- Set-mounted radiators available on most models
- Enclosures, high ambient and sound attenuated, with common key
- Static battery chargers
- Jacket water heater
- Engine lubricating oil drain pump
- Exhaust silencer
- Higher-level exhaust silencers
- Generator anti-condensation heater
- Generator excitation: permanent magnet
- Control systems, remote monitoring, digital metering, multiple alarms/shut-downs, auto-start to utility
- Remote annunciators (EMCP4.2 required)
- Remote monitoring and control
- Power terminal strips
- Coastal insulation protection
- Cat digital voltage regulator
- High ambient rated radiators

*Not all features and options listed

STANDARDISED PACKAGE GENSETS

EPSA has combined over 25 years of expertise and experience in power solutions to engineer a standardised generator package that delivers optimum power in a streamlined process. These unique Energy Modules come with all components integrated into a 40- to 45 foot container, with output power ranging from 1675 kVA –3100 kVA. Pre-fabricated, pre-packaged and pre-tested, Cat standardised genset packages are installed more efficiently - reducing overall lead time, minimising costs and reducing onsite works. Energy Modules are modular and scalable to fit your changing power needs. Cat generators are highly fuel efficient with lower fuel consumption; and include options for hybrid integration. A range of engineering services, including front end engineering and design, ensure integration with balance of plant. Engineered for Australian conditions, Cat energy modules have the option for remote monitoring and access to our Cat service and maintenance network. All Cat generators come with a full Cat Warranty from Caterpillar and the option of Cat Finance.



ADVANCED DESIGN

We've made it easier to upgrade our generator sets with smaller, segmented modular power and control systems. We use preformed braided copper connections, standard length alternator and breaker options, and have given you flexibility on where to mount your breaker box. Our tower features a removable top section, the Automatic Voltage Regulator (AVR) is in the lower section for easy adjusting, and all Mate-n-Lock connections are standard.

LET'S DO THE WORK.™



MODEL C13

STANDBY	400 – 450 kVA
PRIME	350 – 400 kVA
CONFIGURATION	Low BSFC
GENERATOR SET CONTROLS	EMCP 4.2
FUEL SYSTEM	Electronic Unit Injection (EUI)



MODEL C15

STANDBY	500 – 550 kVA
PRIME	455 – 500 kVA
CONFIGURATION	Low BSFC
GENERATOR SET CONTROLS	EMCP 4.2
FUEL SYSTEM	Electronic Unit Injection (EUI)



MODEL C18

STANDBY	605 – 850 kVA
PRIME	550 – 770 kVA
CONFIGURATION	Low BSFC
GENERATOR SET CONTROLS	EMCP 4.2 & EMCP 4.2B 780/850 kVA
FUEL SYSTEM	Electronic Unit Injection (EUI)



MODEL 3412C

STANDBY	750 – 900 kVA
PRIME	680 – 810 kVA
CONFIGURATION	Low BSFC
GENERATOR SET CONTROLS	EMCP 4.2
FUEL SYSTEM	Electronic Unit Injection (EUI)



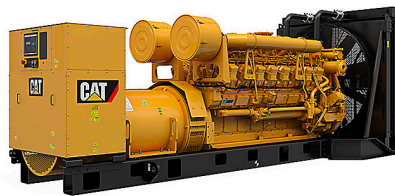
MODEL C32

STANDBY	1100 – 1500 kVA
PRIME	1000 – 1375 kVA
CONFIGURATION	Low BSFC Low Emissions
GENERATOR SET CONTROLS	EMCP 4.2 Optional Controller Available
FUEL SYSTEM	Electronic Unit Injection (EUI)



MODEL 3512

STANDBY	1250 – 1875 kVA
PRIME	1150 – 1700 kVA
CONFIGURATION	Low BSFC Low Emissions
GENERATOR SET CONTROLS	EMCP 4.2 Optional Controller Available
FUEL SYSTEM	Electronic Unit Injection (EUI)



MODEL 3516

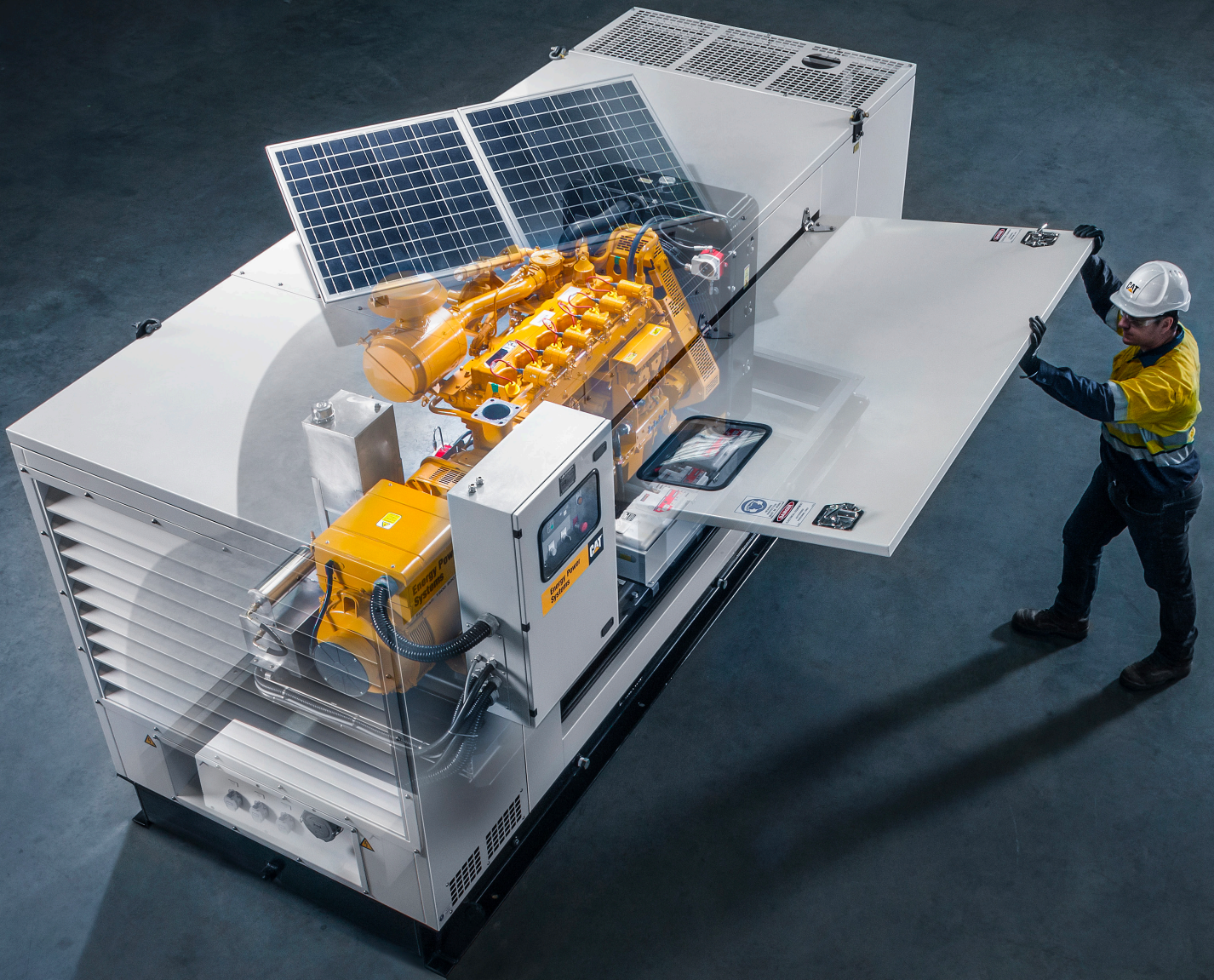
STANDBY	2000 – 3500 kVA
PRIME	1825 – 3125 kVA
CONFIGURATION	Low BSFC Low Emissions
GENERATOR SET CONTROLS	EMCP 4.2 Optional Controller Available
FUEL SYSTEM	Electronic Unit Injection (EUI)



MODEL C175

STANDBY	3000 – 4000 kVA
PRIME	2725 – 3600 kVA
CONFIGURATION	Low BSFC Low Emissions
GENERATOR SET CONTROLS	EMCP 4.2 Optional Controller Available
FUEL SYSTEM	Common Rail

*Remote cooling package available



FRONT END ENGINEERING AND DESIGN (FEED)

DELIVERING BESPOKE DESIGN WORK FOR YOUR SITE AND YOUR APPLICATION

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 information prepared during the client feasibility study and conceptual design, EPSA acts on behalf of the customer to conduct further investigations based on technical requirements. This information provides a basis for detailed engineering, procurement, construction and management by EPSA's in-house engineering consultants.

EPSA also has the expertise to provide high quality specification documents to utilise in request-for-tender scenarios. EPSA enhance existing consultant relationships by providing expertise in power generation in addition to full consultancy services as design partner.

Working with a longer-term project view, EPSA provides a solution that enhances efficiencies and identifies opportunities to minimise costs.

EPSA understand the importance of client engagement in delivering site-based project specifications that utilise the latest technology and avoid over-engineered solutions.

CONNECTED ASSETS

REMOTE MONITORING

The opportunities with new technologies are endless and the capability of Cat product to connect remotely is leading the way in technology solutions for mining and exploration, data centres, utilities, hospitals and other critical power applications.

As technology continues to enhance our world, Caterpillar is constantly developing and refining advanced technologies. Cat power systems provide everything you need to monitor equipment remotely, so you can maximise the performance of your equipment, reduce costly downtime, increase your return on investment, improve safety in your workplace, enhance operator performance, and much more.

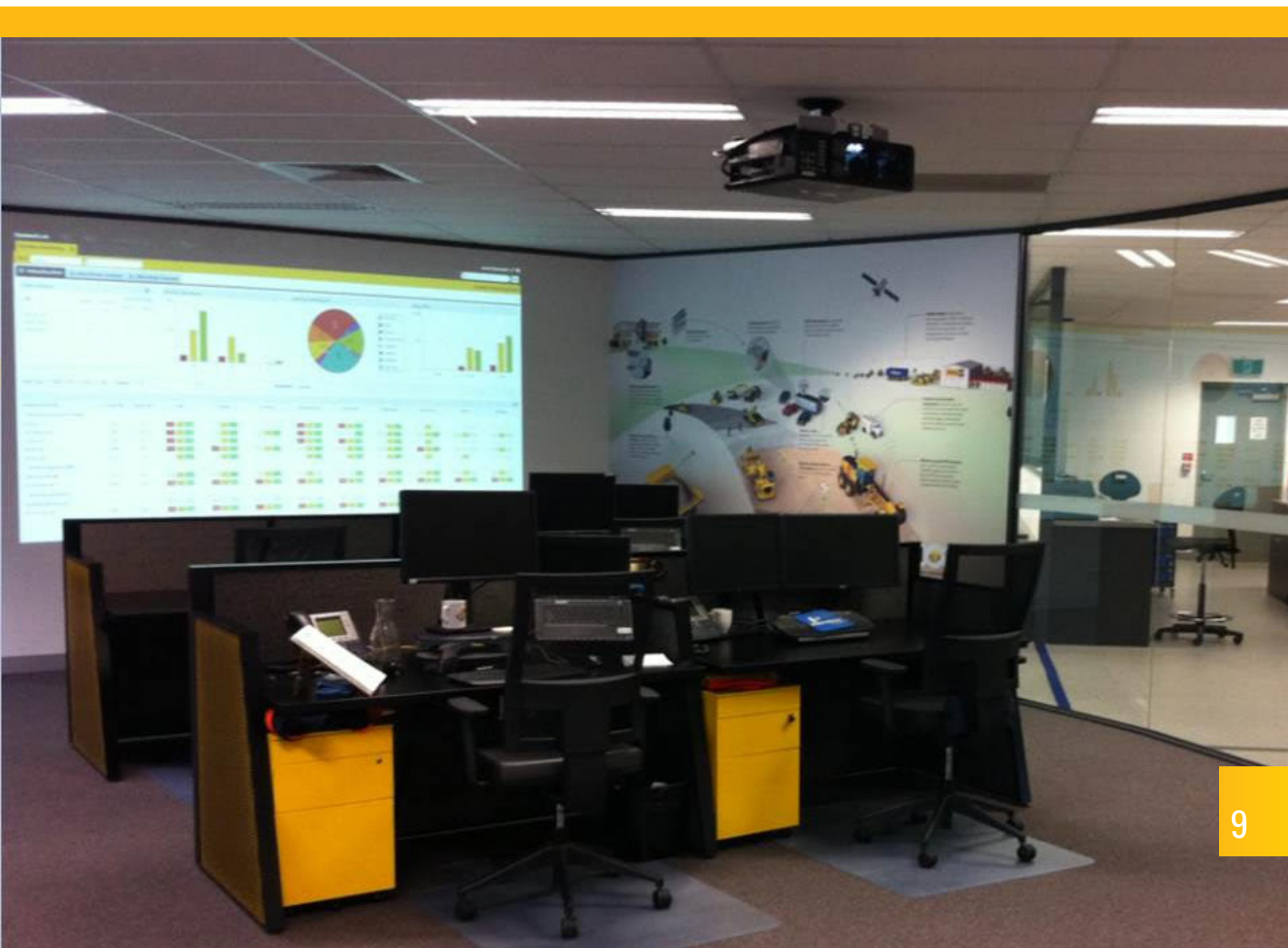
Cat Connect™ delivers a smart use of technology and services to improve your jobsite efficiency.

Using the data from technology-equipped engines, you'll get more information and insight into your equipment and operations than ever before.

The benefits of EPSA's Cat Connected assets:

- Remote Monitoring – enable operations to run remote equipment
- Improved Productivity – reduce downtime
- Greater Efficiency – minimise the downside of disruption
- Better Safety – operators know what is happening around their equipment
- Reduce Environmental Impact – simplify compliance and remotely monitor fuel burn and manage consumption
- Reduced costs – staff travel time & costs
- Maximised Performance – proactively maintain equipment so you remain operational

Never has there been a better time to connect the assets in your business. EPSA can show you how.



EXTENDED SERVICE COVERAGE

**MAXIMUM PEACE OF MIND.
GLOBAL COVERAGE.
LOCAL EXPERTISE.**

In conjunction with the standard Caterpillar Stand-by Warranty, ESC is optional and covers you for:

- A total of 48 months or 2,000 hours, whichever occurs first
- 100% of the cost of the parts or assembled components needed to correct the defect ailed part
- Reasonable and customary labour costs needed to correct the defect failed part.

**EXTRA SUPPORT.
EXTENDED COVERAGE.
LESS RISK. LOWER COST.**

ESC programs are part of Caterpillar's continuing commitment to provide superior value to you, our customer. Talk to your local Sales Representative.

The ESC offer complements the Caterpillar Standard Warranty and is free for a limited time only.

Can be upgraded – the Four Year ESC can be upgraded to include

other Cat components supplied as a single package: Switchgear, Container Solutions). Coverage can also be upgraded to Platinum Plus.

Can be extended – the Four Year ESC can be extended for multiple years based upon customer preference.

CAT[®] FINANCE

EPSA offers purchasing options for RENT NEW and USED Cat Power Systems. We will also facilitate finance through our Cat[®] Finance network, including complete site installation works and ancillaries.



MAINTENANCE OPERATIONS

EPSA'S CAT DEALER PARTNERS OFFER A WIDE RANGE OF SERVICE AND SUPPORT CAPABILITY

Cat trained technicians and specialists, offer a fast, efficient, service aimed at reducing downtime and increasing customer profitability.

Caterpillar's specialised facilities in Australia may include:

- Engine repair
- Complete dealer engine rebuilds
- Caterpillar certified rebuilds



CAT[®] TRAINING

EPSA's Cat[®] Dealer Partners are Registered Training Organisations (RTO) that provide nationally recognised training and assessment services across a range of industry-specific areas.

The curriculum provides Cat users with appropriate training in service and repair technology in order to lower the owning and operating costs of your Cat product.

There are a range of accredited and non-accredited short courses, each designed to address the needs of Cat engine and machine users in the Mining and Construction sectors. The content is driven by our customers' need for sustainable performance improvement.

Training campuses are located across Australia.

SUPPORT ANYTIME, ANYWHERE.

The reliable power produced by Cat generators is matched only by the power that supports them.

Caterpillar is your guarantee of ongoing performance, dependability, reliability and efficiency.

The Cat® Network delivers you technically superior Cat engines with unmatched engineering support, technical advice and after sales support.

EPSA, supplying Australia with the world's best power systems.

Energy Power Systems



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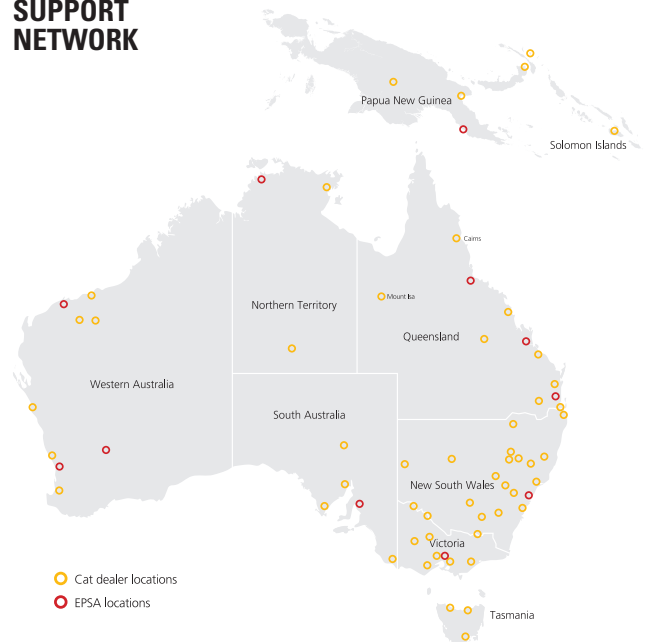
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Mount Kuring-Gai
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SUPPORT NETWORK



One Network. One Call 1800 800 441 | 24/7 Support

Energy Power Systems

