



2026 Edition

Capability Statement

Clean, quiet and reliable power for construction, mining and off-grid operations across Australia.



Quiet Power



Emission Reduction



Up To 100% Fuel Reduction



Quick Deployment

Hybrid power systems engineered for real operating conditions.

Clean, quiet and reliable power for construction, mining and off-grid operations. Made in Australia for environments where reliability isn't optional.



Engineered and built in Australia.

Designed for harsh climates, remote locations and demanding duty cycles.



Real customer outcomes – not claims.

Proven performance on active sites, delivering measurable reductions in fuel use, noise and downtime.



Expert support. Real people. Fast response.

Local engineering, technical expertise and after-sales support when it matters most.



Reliable hybrid power. Anywhere. Any time.

Consistent power across changing loads, operating hours and site requirements.



How Makinex Hybrid Power Systems work in the real world.

Makinex Hybrid Power Systems prioritise renewable energy while maintaining dependable backup power – delivering consistent performance across changing site conditions and demand profiles.



Solar and battery prioritised

Renewable energy is captured and stored, supplying site loads before generator engagement.



Battery-led operation

Batteries manage variable loads and peak demand, reducing generator runtime.



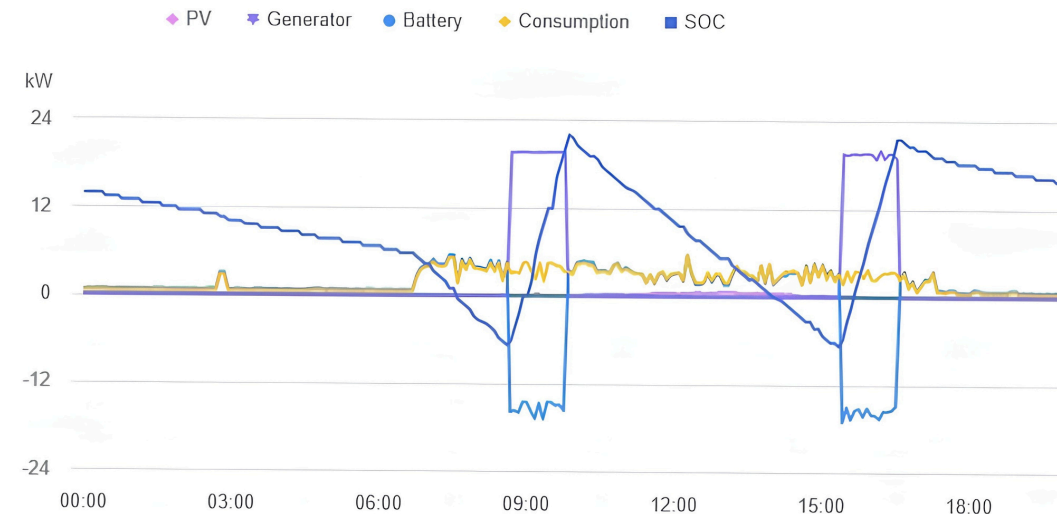
Generator support when required

The generator engages only when sustained demand exceeds renewable input.



Automatic load balancing

The system adapts dynamically as site demand changes.



The complete modular onsite power solution to power up your next project.



Hybrid

Hybrid Power System (HPS)

Combines solar, battery storage and a diesel generator to deliver reliable hybrid power, either as a standalone solution or paired with CTS for additional solar input.

Solar

Add Deployable Solar

Standalone solar generation for site power. Use on its own, or integrate with HPS and/or BESS to reduce generator run time and emissions.

Battery

Battery Energy Storage System (BESS)

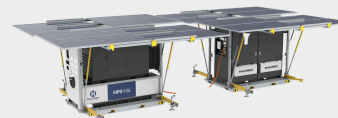
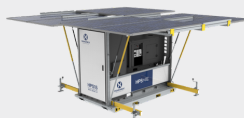
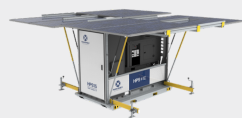
Operate as a standalone battery solution, or can be paired with a diesel generator and/or our CTS for flexible, reliable power.

Hybrid Power Systems (HPS)

Integrated hybrid power for off-grid and remote operations.

Makinex Hybrid Power Systems combine solar, battery storage, generator power and intelligent system control in a single, transportable platform. These models scale by power output and system capacity, ranging from compact single-skid units through to high-capacity double-skid configurations for high power demand sites.

Key systems specifications



Model		HPS15	HPS20	HPS45	HPS100
Configuration		Single Skid	Single Skid	Double Skid	Containerised
Rated Power Output		15kW / 15 kVa	20kW / 25 kVa	45kW / 50 kVa	100kW / 100 kVa
Rated Voltage		1 Phase 230 VAC 50 Hz	3 Phase 230/400 VAC 50 Hz	3 Phase 230/400 VAC 50 Hz	3 Phase 230/400 VAC 50 Hz
Battery		20 kWh (DoD 70%)	30 kWh (DoD 70%)	60 kWh (DoD 70%)	160kWh (Expandable to 240kWh)
Dimensions (L x W x H)	Deployed	4376 x 5129x 2216 mm	4376 x 5129x 2216 mm	4376 x 5129x 2216 mm	6058x2438x2591
	Stowed	2366 x 1530 x 2544 mm	2366 x 1530 x 2544 mm	2366 x 1530 x 2544 mm	6058x2438x2591
Gross Mass	Dry	2076kg	2470kg	1989Kg (Skid 1), 2420kg (Skid 2)	5192kg
	Wet	2456kg	2700Kg	1989Kg (Skid 1), 2800Kg (Skid 2)	6030kg
Generator Fuel Tank		27 kVA (21.6 kW) Prime 400L	30 kVA (24 kW) Prime 400L	60 kVA (48 kW) Prime 500L	150 kVA (120 kW) Prime 900L
Integrated Solar		4 kWp	4 kWp	8 kWp	5 kWp
Additional Input Capacity	AC Inverter Coupled	7kWp	21 kWp	21kWp	42kWp
	AC Load Coupled	16kWp	30kWp	50kWp	100kWp

Battery Energy Storage Systems (BESS)

Battery-led power for load management and runtime stability.

Makinex BESS units provide scalable energy storage to support battery-led operation, peak load handling and reduced generator runtime. Battery Energy Storage models scale by power output capacity, allowing systems to be matched to runtime requirements and load variability.

Key systems specifications



Model		BESS10	BESS15	BESS50
Rated Power Output		10kW / 10 kVa	15kW / 15kVa	50kW / 50 kVa
Rated Voltage		1 Phase 230 VAC 50 Hz	1 Phase 230 VAC 50 Hz	3 Phase 230/400 VAC 50 Hz
Battery Capacity		15kWh (DoD 70%)	20kWh	100kWh (DoD 70%)
Dimensions (L x W x H)		1200 x 600x 1295mm	1200 x 600x 1295mm	1754 x 1226 x 2091 mm
Gross Mass		358kg	405kg	1752kg
Additional Input Capacity	AC Inverter Coupled	-	-	21 kWp
	AC Load Coupled	16 kWp	16 kWp	50kW
Recommended Min. Generator Size		9.0 kVA (6.5 kW) Prime	9.0 kVA (6.5 kW) Prime	60 kVA (48 kW) Prime

Modular Solar Solutions

Flexible solar power for real-world sites.
Makinex solar arrays are designed to integrate seamlessly with hybrid power and BESS systems, providing scalable solar input without complex site works.



Key systems specifications

Model	CTS5-DC	CTS5-AC
Mounting Type	Container Corner Anchor Bracket, Shelter Mount and Ground Mount	
Max Solar PV Power	5 kWp	5 kWp
Number of Strings	2 x 2.5 kW	2 x 2.5 kW
Rated Voltage Output	259 VDC per String	1P 230 VAC 50 Hz
Rated AC Output Power	-	5 kW / 5 kVA
Rated AC Output Current	-	20A
Dimensions - Packed (LxWxH)	6060 x 2410 x 360	6061 x 2410 x 360
Dimensions - Deployed (LxWxH)	6060 x 4370 x 360	6061 x 4370 x 360



**Rapid
deployment**



**Scalable
renewable power**



**Designed for real
site environments**

Modular Solar Solutions

Flexible solar power for real-world sites.

The Makinex Site Shed Solar Solution is designed to operate as a standalone solution or integrate seamlessly with BESS systems, powering site sheds with ease.



Key systems specifications

Model	SPV3	SPV5
Mounting Type	Site Shed Roof installation kit	
Max Solar PV Power	2.6 kWp	5 kWp
Number of Strings	1 x 2.6 kW	2 x 2.6 kW
Rated Voltage Output	1P 230 VAC 50 Hz	1P 230 VAC 50 Hz
Rated AC Output Power	2.6 kW / 2.6 kVA	5 kW / 5 kVA
Rated AC Output Current	11.3A	20A
Dimensions - Packed (LxWxH)	NA	NA
Dimensions - Deployed (LxWxH)	6162 x 2168	12324 x 2168
Solar Array Weight	68kg	120kg
Inverter Weight	7.7kg	7.7kg
Package Weight	80.5kg	133kg



**Rapid
deployment**



**Scalable
renewable power**



**Designed for real
site environments**



Real world application: Mining – Water & pump applications

Keeping critical pumps running in remote conditions.

The Challenge

Remote mining pump operations are often located far from a central base, supporting water transfer, dewatering or process operations across long distances. These sites require continuous, stable power, often 24/7, with little tolerance for interruption.

Generator-only solutions are expensive to run, fuel-intensive and difficult to maintain in remote environments.

The Makinex Solution

Makinex Renewables Hybrid Power System combines solar, battery storage and a generator to deliver reliable power for pump-heavy mining operations. At the Sanjiv Ridge project in Western Australia, the Makinex HPS20 successfully replaced a traditional 60kVA diesel generator.

Results on site



Reduced fuel consumption and generator run time resulting in \$86K fuel savings in 7 months.



Reducing the need for frequent site visits while enabling remote diagnostics and troubleshooting by our service technicians.



Reliable 24/7 operation for critical water management and pumping.



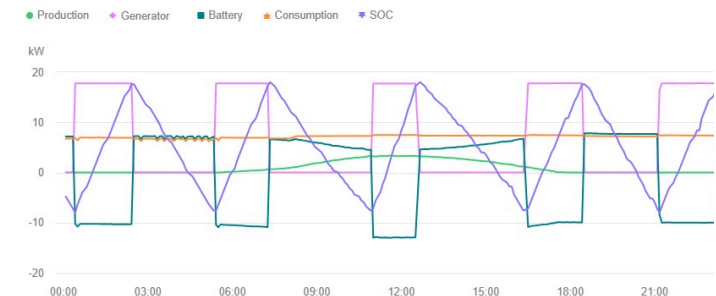
Reduced emissions, noise and vibrations by 67%, while lowering maintenance requirements, servicing frequency and downtime risk.



Fast deployment and repeatability across multiple pump locations.

Why mining operators choose Makinex?

Engineered and built in Australia, Makinex Hybrid Systems are proven in remote, high-demand mining environments; making us a trusted solution for mining operators seeking reliability, scalability and operational efficiency.





Real world application: **Construction & civil applications**

Powering active sites with changing demands.

The Challenge

Construction and civil projects rarely stand still. Power requirements constantly change as site layouts evolve, trades rotate, and infrastructure is installed in stages. Many projects also operate in noise-sensitive environments, where extending working hours without disruption is a priority. Traditional diesel generators struggle to adapt, resulting in excessive noise, higher fuel consumption, and frequent relocation as site requirements shift.

The Makinex Solution

On the M80 Ring Road Extension project in Melbourne, Victoria, two Makinex HPS45 units successfully replaced a 150kVA diesel generator. The results shown were achieved over a 10-month period

Its modular design makes relocation simple as your project evolves, while Australian-based support ensures fast, responsive adjustments when site conditions or timelines change.

Results on site



Cut diesel spend by \$115K compared to their original generator-setup



Lower noise impact, supporting night works and compliance.



Reliable power across staged works, from site sheds to tools and infrastructure.



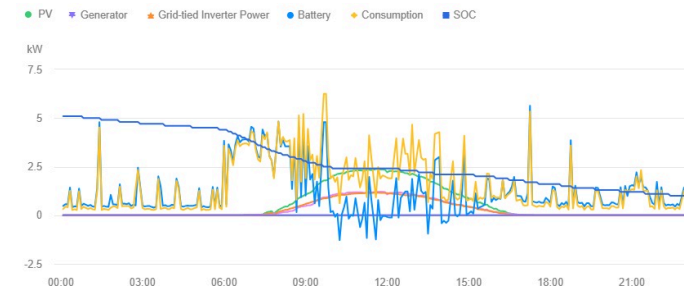
Fast deployment and relocation as site layouts evolve.



Consistent performance across multiple projects.

Why project managers choose Makinex?

Makinex delivers practical Hybrid Power Systems that work the way construction sites operate – flexible, reliable and easy to integrate – keeping projects moving without unnecessary complexity.





Real world application: **Communications Towers**

Reliable power for communication towers in off-grid locations.

The Challenge

Remote communication towers rely on continuous, off-grid power to keep critical networks online, often in isolated locations with limited access to fuel and maintenance support.

Fluctuating energy demand and reliance on diesel-only generators result in high fuel costs, frequent refuelling, and increased downtime risk.

The Makinex Solution

By replacing a 60kVA diesel generator with a Makinex HPS20 Hybrid Power Station, this remote communications tower at a gold mine in Western Australia achieved reliable, continuous power while significantly reducing diesel consumption and generator runtime.

Automated hybrid operation minimised maintenance requirements and site interventions, helping ensure critical communications infrastructure remained operational in a challenging remote environment.

Results on site



Reduced fuel by 98% and operating costs in off-grid locations.



Reduced emissions, noise and vibrations by 94%



Lower maintenance reduced site visits and refuelling requirements in remote locations.



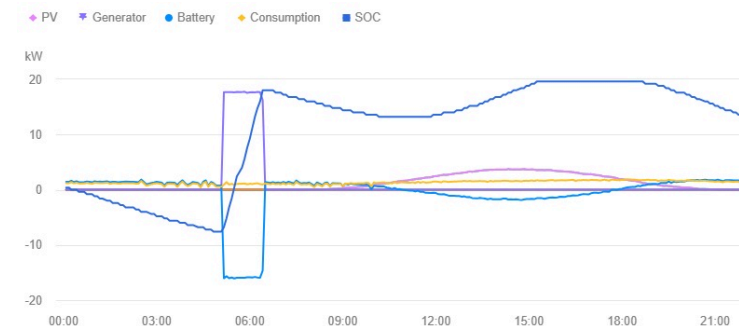
Reliable, uninterrupted power for critical communications infrastructure.



Improved uptime for mission-critical communications networks.

Why network managers choose Makinex?

Made in Australia, Makinex Hybrid Power Systems deliver reliable, uninterrupted power for remote communications infrastructure, helping site operators reduce diesel dependency, minimise maintenance and lower operating costs.



Makinex Renewables delivers Hybrid Power Systems that work in the real world reducing complexity while delivering reliable power where it is needed most.



Australian made and owned.



Designed for real operating conditions.



Practical hybrid systems – not over-engineered.



Built to integrate into real operations.

