United Rentals®

Storage Containers & Worksite Facilities

HYBRID POWER SOLUTIONS

New Zealand
August 2026

Work United®

HYBRID POWER SOLUTIONS

As fuel prices rise and sustainability expectations increase, businesses are looking for smarter ways to power their sites without compromising reliability. Construction sites, accommodation camps, offices, amenities, and industrial equipment often require continuous power to support daily operations, making diesel-only generation costly, inefficient, and difficult to sustain over long project durations.

Hybrid power solutions provide a smarter alternative by combining Battery Energy Storage Systems (BESS) with solar, grid power, or diesel generators to intelligently manage and deliver energy where it's needed most. The result is lower fuel consumption, reduced emissions and site noise, improved operational efficiency, and reliable, scalable power where ever and whenever you need it.

WHY USE HYBRID POWER?

Pairing a generator with a BESS delivers major operational and environmental benefits:

LOWER FUEL CONSUMPTION

Reduce fuel usage by up to **80%** significantly lowering diesel costs

LOWER EMISSIONS

Cut emissions by up to **50%** compared to diesel-only generators

QUIETER WORKSITES

Reduce noise levels by up to **90%** for safer, more comfortable environments

POWERING A SUSTAINABLE FUTURE

Why Renewable Energy Matters

Cut Operating Costs
Reduce fuel costs and maintenance expenses with solar-powered systems and hybrid technology.

Ensure Energy Resilience
Stay powered 24/7 with battery backup and smart hybrid systems—even during servicing or outages.

Reduce Emissions
Avoid thousands of kilograms of CO_2, NOx, and carbon monoxide—supporting cleaner air and healthier communities.

Accelerate Project Timelines
Rapid deployment with plug-and-play solar skids and hybrid units—no grid connection delays.

Meet ESG & Compliance
Targets Align with government mandates, investor expectations, and corporate sustainability goals.

Cut Fuel Costs, Slash Emissions Power Smarter

*This concept render is for illustrative purposes only and does not represent the final site design.

2 x Hybrid Bess Units Paired with 4 x Mobile Solar Platform

CASE STUDY: SEYMOUR WHYTE

When Seymour Whyte, one of Australia's leading civil contractors, needed a smarter alternative to traditional diesel power on a major infrastructure project, they turned to United Rentals' hybrid energy range for their job site power solutions. Across an 18-month deployment, the goal was clear: cut fuel consumption, reduce engine runtime, and through battery-powered continuity during servicing, ensure the site stayed fully operational 24/7. The result was more than a stopgap, it was a complete worksite power.

This provided power to:

12m x 12m Office
12m x 6m Lunchroom
6m x 3m First Aid Room
3 6m x 3m Ablutions
12m x 3m Office

- **Delivered 75%** of total site energy from renewable solar.
- Cut diesel consumption by **34,403 litres**, saving **$69,166** in fuel alone.
- Generator runtime **dropped by 94%**, saving 12,349 engine hours and avoiding 25 costly services - another **$6,875** in savings.
- Site fully operational **24/7.**

"Go off-grid. Cut costs. Stay powered. United Rentals delivers clean, scalable energy that works as hard as your team."

20FT
SOLAR PLATFORM

The 20ft Solar Platform is a containerised, plug-and-play solar solution designed to integrate seamlessly with BESS and hybrid generator systems. Mounted to a standard 20ft container or cabin and prewired to a DC isolator, it enables rapid deployment and efficient solar generation for hybrid and off-grid applications.

Each solar skid delivers up to 2.5 kW of power, with up to eight skids per BESS providing a total of 20 kW of renewable energy. Integrated with battery storage and generators, the system helps reduce runtime, fuel consumption, emissions, and site noise.

KEY SPECIFICATIONS*

- Container-mounted, plug-and-play solar solution
- Delivers up to 2.5 kW per skid
- Scalable up to 8 skids per BESS (20 kW total power)
- Integrates with BESS and hybrid generators for efficient microgrid operation
- Prewired to DC isolator for rapid deployment
- Simple connection via standard MC4 plugs

Specifications may vary depending on units available for hire. Please contact your local sales representative or branch to discuss your hybrid power needs.

BESS RANGE

BESS 60KVA

The BESS 60kVA is a flexible, high-performance energy storage solution designed for hybrid power applications. Featuring real-time monitoring, integrated solar charging, and rapid commissioning, the system is built for efficient deployment across a wide range of site conditions.

Supporting up to eight container-mounted 20ft solar platforms, the unit can operate alongside solar, grid power, or diesel generators to form a reliable hybrid power system.

KEY SPECIFICATIONS

- Three-phase output
- Nominal output power: 60 kVA
- Peak output power (5s): 120 kW
- Rated voltage: 230V (single phase) / 400V (three phase)
- Nominal energy capacity: 96 kWh

BESS 500 KVA (Up to 500 kVA available)

The BESS 500 kVA is a high-capacity energy storage solution engineered for demanding applications. Featuring an integrated microgrid controller and advanced monitoring, it significantly reduces generator reliance and can lower carbon footprint by up to 90%.

Designed for large-scale and complex sites, the system integrates seamlessly with solar, grid, and generator inputs to deliver reliable hybrid power for applications including site offices, amenities, and tower cranes.

KEY SPECIFICATIONS

- Three-phase output
- Nominal output power: up to 500 kVA
- Peak output power (10s): 595 kVA
- Nominal energy capacity: 430 kWh

WHAT IS A BATTERY ENERGY STORAGE SYSTEM (BESS)?

A Battery Energy Storage System, or BESS, stores power from the grid, solar or generators and delivers it when needed. When paired with a generator, it can automatically manage power supply, reduce diesel use, lower running costs and support a more reliable site power solution.

The BESS can:

- charge while the generator is running
- supply power during low-demand periods
- restart the generator when demand increases or energy levels are low
- help manage peak load demand

Learn more about our range to find the right solution for your site.

HYBRID UNITS

SINGLE-PHASE HYBRID

The Single-Phase Hybrid unit is a compact, all-in-one system combining battery storage, inverter technology, and diesel generation into a single intelligent solution. With smart energy management and live monitoring, it delivers efficient, reliable power across varying site demands.

Capable of integrating up to four container-mounted solar skids, the system supports plug-and-play installation while delivering fuel savings of up to 90%.

KEY SPECIFICATIONS*

- Nominal output power: 15 kVA
- Peak output power (10s): 25 kVA
- Battery capacity: 20.5 kWh

3 PHASE SOLAR HYBRID

The 3-Phase Solar Hybrid combines BESS, solar, and diesel generation into a compact, scalable microgrid solution. Designed for sites requiring higher power output, the system intelligently manages energy sources to improve efficiency, reduce operating costs, and maintain stable three-phase supply. As an all-in-one hybrid solution, it integrates battery storage, diesel generation, and solar capability into a compact, transportable unit.

With the ability to connect up to four container-mounted solar skids, the system delivers flexible plug-and-play deployment and fuel savings of up to 90%.

KEY SPECIFICATIONS

- Nominal output power: 22 kVA
- Peak output power (10s): 44 kVA
- Nominal energy capacity: 28.8 kWh
- Capacity to connect up to 4 solar skid platforms

Ask us if you need a larger power solution tailored to your requirements.

Get Started

Contact us today to generate an enquiry and find the right hybrid power solution for your project.

**Specifications may vary depending on units available for hire. Please contact your local sales representative or branch to discuss your hybrid power needs.*

LOOKING FOR STORAGE SOLUTIONS? CHECK OUT THE PRODUCT RANGE.

STORAGE CONTAINERS

DANGEROUS GOODS

REFRIGERATED CONTAINERS

WORKSITE FACILITIES

SOLAR WORKSITE FACILITIES

ACCOMMODATION UNITS

WOLF LOCK

RETAIL AND EVENTS

PORTABLE WORKSHOPS

CUSTOM MODIFICATIONS

HOARDINGS

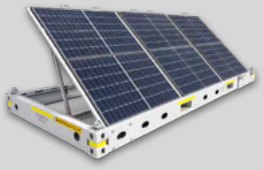
OPEN SIDE CONTAINERS

WORK SITE SOLUTIONS

INTERMODAL

REMOVALIST CONTAINERS

BESS



SOLAR PLATFORM

FORTAWALL

NEW ZEALAND

0800 UR HIRE • unitedrentals.co.nz

United Rentals