





ABOUT US

We are a new, forward-thinking alternative energy and electrical company based in Auckland, New Zealand.
Currently serving the Solar and electrical industry, we are committed to delivering smarter, cleaner energy solutions for modern industries.



OUR MISSION

To provide dependable, low-emission energy solutions that support cleaner operations across construction, infrastructure, public sector, and emergency response industries. Whether it's installing solar systems, upgrading energy infrastructure, or piloting new clean tech like our hybrid generator, our goal is the same: help organisations power their projects with confidence, a lighter footprint and cost saving.

OUR VALUES

Sustainability – Delivering energy solutions that reduce environmental impact.

Practical Innovation – Creating systems that solve real world problems with simplicity and reliability.

Integrity – Building honest relationships and long term value for our clients and partners.

Problem -

Diesel generators remain the go to power source on many sites , but they come with growing costs and environmental challenges:

- A. High fuel consumption and rising diesel prices.
- B. Frequent maintenance and costly service downtime.
- C. Heavy carbon emissions impacting sustainability goals.
- D. Disruptive noise pollution.
- E. Increasing pressure from clients and regulators to decarbonise operations.



OUR SOLUTION:

Smarter Hybrid Power -

We've designed a next generation mobile hybrid concept to directly address these issues and deliver cleaner, reliable power with a fraction of the fuel and emissions using a combination of a smaller traditional generator paired with battery and inverter systems. By eliminating under loading scenarios, the system produces electricity only in response to actual usage, ensuring maximum efficiency.



KEY BENEFITS

Up to 90% Diesel Savings

Lower operating costs and fuel dependency.

Reduced CO₂ Emissions

Helps meet sustainability targets and lower project footprints.

Less Engine Wear

Minimal runtime means fewer breakdowns and extended service

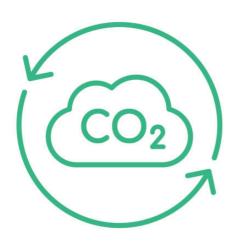
Quiet, Low-Impact Operation

Battery output enables a quieter, cleaner worksites.

HOW IT WORKS

- 1. Battery delivers primary power for equipment.
- 2. Diesel generator kicks in when battery level drops below 30%.
- 3. Diesel generator stops when battery level 100%
- 4. Remote monitoring tracks system health, fuel usage, CO₂ reductions and service intervals.





Additional Advantages

- Fast, Mobile and Flexible Deployment

Quick and straightforward to set up and commission on-site. Compact, trailer-mounted design for convenient transport and positioning on various sites.

User-Friendly Operation

Designed with an intuitive interface and smartphone integration for easy operation and

- Noise Reduction Features

Significantly reduced noise levels due to limited engine runtime, integrated acoustic insulation, and noise-directing design.

Stable, Clean Power Output

High-quality, consistent electrical output delivered via battery system – suitable for sensitive equipment.

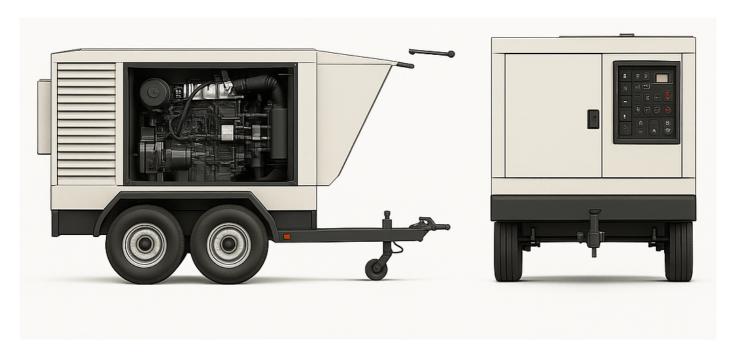
Remote Monitoring & Diagnostics

Enables performance tracking, remote support, and proactive maintenance management.

Data for Environmental Reporting

Consumption, uptime, and emissions data are easily accessible for sustainability and compliance reporting.

PRELIMINARY SPECIFICATIONS



A wide range of optional extras can be available to enhance the system's functionality, including integrated light towers, 360-degree security cameras, mobile cellular connectivity, and other customisable features to suit specific site and project needs.



Compact unit #1

PEAK POWER	90kW (for 2 seconds)	
NOMINAL POWER	36kW 45kVA	
CHARGE POWER	30kW	
BATTERY CAPACITY	30 kWh	



Lead the Future of Mobile Power in New Zealand

We are currently in the concept development and market validation phase. We're seeking expressions of interest from areas such as:

- Contractors and fleet managers
- Infrastructure and utilities
- Emergency response and disaster support agencies
- Government and sustainability focused organisations

If you're looking to upgrade your generator fleet, or looking for a cleaner, quieter, more cost effective solution, we want to hear from you. For more Info feel free to contact us.





SAM CAMERON

Mobile - 0273277555

Email - sam@electrofarm.co.nz