REFERENCE PROJECT

freedom won AUSTRALIA

LCM STORE, SANTO

POWERING THE BUSINESS FROM SOLAR



150 kW
HYBRID INVERTER CAPACITY

885 kWh
MEGATOWER STORAGE

796 kWh
USABLE ENERGY @ 90% DOD

1.77 MWh
FUTURE STORAGE EXPANSION

Recommended energy per cycle: 708 kWh at 80% depth of discharge.

PROJECT PARTNERS

LCM Store + Perfect Solar Power + Freedom Won Australia

Integrated commercial energy infrastructure designed to maximise renewable energy use and reduce reliance on conventional generation.

A FULL TURNKEY POWER ROOM

Working with Perfect Solar Power, a Sydney-based EPC, and Freedom Won Australia, the project brings solar generation, advanced battery storage, intelligent energy management and backup generation together in one integrated power solution.

The Freedom Won 12M Power Room is fully fitted and commissioned as an integrated energy-storage and power-management system.

SOLAR FIRST. BATTERY SECOND.

GENERATOR WHEN REQUIRED.

1. **SOLAR** — Supplies daytime site loads
2. **BATTERY** — Stores surplus and supports loads
3. **GENERATOR** — Resilient backup when required

FREEDOM WON AUSTRALIA
Plug into the current future

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Specifications subject to approved system design and current documentation

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ONE INTEGRATED POWER SYSTEM

BUILT FOR TODAY - READY FOR TOMORROW



Freedom Won megaTower battery installation inside the 12M Power Room



Integrated switchgear and hybrid power conversion



Freedom Won power electronics and controls

A COMPLETE ENERGY SOLUTION

Solar + Battery Storage + Intelligent Controls + Generator Backup + Integrated Power Conversion

LCM Store gains a resilient and scalable energy platform capable of reducing dependence on conventional power and maximising the use of renewable energy.

THE SYSTEM INCLUDES

- 150 kW commercial-scale hybrid inverter capacity
- 885 kWh Freedom Won megaTower battery storage
- AC- and DC-coupled solar integration
- Integrated energy-management controls
- Generator backup
- Automated management of solar, battery, generator and site loads
- Provision to expand battery storage to 1.77 MWh

WHAT THIS DELIVERS

1 **RENEWABLE-FIRST**
Solar supplies the business during the day, with surplus energy stored for later use.

2 **RESILIENT BACKUP**
The generator provides an additional backup layer when solar and battery energy are insufficient.

3 **FUTURE-READY**
The modular Power Room can expand from 885 kWh to approximately 1.77 MWh as requirements evolve.

4 **REMOTE VISIBILITY**
The battery system is engineered for long service life and remote monitoring.

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