



Case Study

Enatel and Battery Energy partnership delivers power management solution for Leading Australian Telco Operator.

Enatel and Battery Energy

Customer Requirement

A major Australian telco sought an advanced and reliable DC Power and energy management solution.

Quick deployment and significant cost savings were a priority for power management needs.

Solution Overview

Enatel and Battery Energy, in partnership, have developed a comprehensive power management solution.

The solution included a 48V FlexiCompact DC Power solution with patented Dynamic Phase Balancing technology, high efficiency rectifiers and converters.

All components are assembled and tested in the Enatel New Zealand manufacturing facility, with final configuration and testing in Battery Energy's Sydney facility.

The system is powered by Battery Energy PowerLYTE+ batteries, engineered to resist sulphation, corrosion, and drying out. An innovative plate design and advanced carbon-catalyst technology ensures optimal charge efficiency and a prolonged lifespan, especially in high-temperature environments.

In total, Battery Energy has deployed over 300 site installations with Enatel racked systems across Australia in all states.

Support

Enatel and Battery Energy provide prompt, accurate technical and sales support for customers.

Including, power planning, installation, troubleshooting, maintenance and upgrading hardware and software.

Battery Energy:

Enatel's strategic partner in Australia, Battery Energy Power Solutions build customised robust energy solutions for major Australian companies across telecommunications, rail and mining.

For over 30 years, Battery Energy proudly design and develop reliable and robust energy storage solutions.

Our combined Enatel and Battery Energy solutions are tested and proven to endure extreme heat and deep cycling.

Solution:

A 48V FlexiCompact DC Power solution with patented Dynamic Phase Balancing technology.

This includes:

- EM4x Energy Manager
- 3Kw Rectifier Modules
- 1.8Kw Solar Converters
- 48-12V DC-DC Converters
- PowerLYTE+ Batteries

Systems:

300+ Site installations across Australia

Benefits:

- Reliability
- Real cost saving opportunities
- Addressed site issues through controlled power flow
- System resiliency without major capital expenditure
- Optimised power draw from a grid or generator

Business Benefits

Dynamic Phase Balancing

Enatel's patented phase balancing software feature helps to maximise power draw from the grid or generator, resulting in improved system resiliency without major capital expenditure.

Benefit: This addresses site power issues by controlling power flow in real-time, and it prevents upstream breakers from tripping, resulting in greater reliability and real cost saving opportunities.

AC Load Management

Automatically adjusts load distribution to prevent AC input breaker trips.

Benefit: Saving time and support costs. Enatel's AC Monitor (ACM) when integrated into the EM4x Energy Manager reports and monitors status of AC circuits.

Key functionality includes measurement and reporting of either star or delta configurations.

DC-DC Converters

Minimise voltage losses in cable runs to cell towers and 3kW rectifiers designed for use in modern telecommunications networks.

Benefit: Reliability and power density that maximises the effective use of rack space.

Advanced, Remote Monitoring

The EM4x Energy Manager enables advanced remote monitoring and control of the systems health.

Benefit: Industry leading industrial and communication site manager that can monitor, manage and control critical infrastructure at all installations from micro sites to centralised power plants.

"It is through our trusted partnership with Battery Energy that we have not only achieved mutual success, but also further growth opportunities.

Combining Enatel OEM total solutions with Battery Energy's local knowledge and customisation has enabled us to deliver a trusted and reliable solution."

- Stu Clarke, Regional Sales Manager, APAC Enatel



Enatel Hybrid System installed in Battery Energy Dual Bay outdoor cabinet in Battery Energy Configuration Centre, Sydney.



Enatel FlexiCOMPACT DC Power System.



Enatel customised solutions for Indoor Hybrid and SP36 cabinets ready for final testing at Battery Energy Configuration Centre in Sydney, prior to shipping to customer.

"Enatel is an invaluable strategic partner for us in delivering cutting-edge Energy solutions.

Together, we have navigated complex challenges, resulting in innovative and customer-centric products that have exceeded our customers high expectations.

As a team, we look forward to the continued growth of our partnership, successfully leading the industry in world first technology."

- Adrian Edgar, Executive Director, Battery Energy

