univers

Digitising a Utility-Scale Battery in South Australia

Univers' end-to-end solution for predictive maintenance, real-time monitoring and optimized generation across 82 sites

82 MW	164 MWh	AEMO	1st
Rated Power	Rated Capacity	Grid-Compliant	Owner's Independent BESS in Australia

About the Customer

A leading Australian independent power producer (IPP) building utility-scale renewable and storage assets across the National Electricity Market. This project — the producer's first independently owned battery in Australia — is a standalone battery energy storage system (BESS) in South Australia, contracted at 60 MW / 120 MWh and rated to 82 MW / 164 MWh, delivered alongside an EPC partner, a battery OEM and a grid consultant.

Univer's Solution

Univers delivered the full control-and-monitoring intelligence layer for the battery, harmonising multiple OEM systems into a single, AEMO-compliant asset:

Master Controller (EMS):

Core control for frequency response and active/reactive power with fault-ride-through strategies. Dispatches the power-plant controller to meet AEMO dynamic ramp-rate requirements, with seamless local/remote switching.

Energy Storage SCADA:

Real-time monitoring across PCS, bank BMS and rack BMS, with alarm management, operation reporting and full data traceability — built on the same architecture as the Univers EMS.

Remote delivery excellence:

SCADA hardware delivery, controller and power-plant-controller communication debugging, and multiple rounds of factory acceptance testing — control, communication, data integrity and redundancy — all completed remotely and passed.

