

Custom control in a restricted network

The Problem

A NSW school site installed multiple Fronius Gen24 inverters, two with BYD batteries, with one Fronius smart meter connected to the same network. Due to the school's firewall, cloud access was blocked and the inverters couldn't communicate directly - preventing them from working together or aggregating battery control.

Our Solution

Marshall Lite was deployed with fixed IPs, allowing local network control of the identified inverters without breaching IT policies. Working with the school's IT team, we securely integrated with each inverter over Modbus TCP and used smart meter data to coordinate charge and discharge across both battery stacks.

Outcome

The site now operates both batteries in sync, based on real-time site load, with no internet or daisy-chain connection required. Marshall's network-isolated solution provided functionality the OEM couldn't, and helped deliver a seamless experience for the installer and school.