



# Dynamic Export – Coordinated Control Across Complex Sites

## The Problem

Sites with multiple buildings or tenants, such as schools, resorts or multi-array precincts, often share a single export limit imposed by their DNSP. Without coordinated control, one system can push the entire site beyond its export cap, triggering penalties or shutdowns. Conventional inverter solutions can't manage multi-building, multi-inverter environments under a shared constraint.

## Our Solution

Marshall was deployed across a series of challenging sites, including educational campuses and resort-style developments, to deliver seamless, site-wide coordination. At one multi-building school site, Marshall units communicated across VLAN networks to manage multiple inverters without any physical daisy-chain. Each inverter was controlled remotely under a central export strategy. At Mandurah Ocean Marina Chalets, Marshall Blackboxes were installed in each building, with one master unit monitoring grid power and triggering follower Marshalls to adjust inverter output. This logic ensured that all chalets stayed within a strict 1.5 kW export cap while providing live visibility through the customer dashboard.

## Outcome

**The sites now operate at their export thresholds automatically, achieving maximum self-consumption and reliability without manual intervention. Through Marshall's platform, installers and operators gain transparent oversight, remote access, and the confidence that even complex networks remain compliant at all times.**