

THE COMMISSIONING PROCESS

5 Steps From Installation to Go-Live¹

01

Pre-Commissioning Checks

Verify the installation against approved design drawings, wiring, labelling, mechanical completion and safety requirements.



02

Inspection & Test Plan (ITP)

Confirm test scope, acceptance criteria, hold and witness points, responsibilities, test equipment and required records.



03

Functional Testing

Test equipment, protection, controls, communications, alarms, interlocks and operating sequences to confirm correct operation.



04

Site Acceptance Testing (SAT)

Demonstrate complete integrated system performance under site conditions, including controls, interfaces and fail-safe functions.



05

Handover & Documentation

Complete test packs, defect close-out, as-built drawings, O&M manuals, certificates, training records and final sign-off.



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¹ Standards/reference basis (as applicable): AS/NZS 3000:2018 (including current amendments); AS/NZS 3017:2022 - Electrical installations - Verification by inspection and testing; AS/NZS 5033:2021 - Installation and safety requirements for photovoltaic (PV) arrays; AS/NZS 4777.1:2024 - Grid connection of energy systems via inverters, Part 1: Installation requirements; AS/NZS 5139:2019 Amd 1:2025 - Electrical installations - Safety of battery systems for use with power conversion equipment; IEC 62446-1:2016+A1:2018 - PV systems - Documentation, commissioning tests and inspection; and IEC 60364-6:2016 - Low-voltage electrical installations, Part 6: Verification. Project specifications, network/utility requirements and OEM commissioning procedures also apply.