ADVANCED ANALYSIS AND TESTING

CPS NATIONAL LINKS SITE DATA WITH YOUR ASSET MANAGEMENT SYSTEMS

Engaging CPS National as your asset management partner provides you with the security and continuity of technical support from a large Australian owned company. We are committed to ensuring your equipment operates as designed, remains in service and is statutory compliant.

Our equipment and on-hand capabilities include:
- Infrared (IR) drones
- Hand-held IR
- Ground IR
- IV curve tracers 1000 and 1500
- AC analysers
- DC analysers
- MV and HV test equipment
- Oil sampling in-house
- Onsite EL testing
We understand the operational value of your assets which is why we are focused on optimisation to ensure continuous availability. We take our role of data collection very seriously and our continual analysis of your assets is aimed at extending the equipment’s longevity. As part of Ampcontrol Group we can carry out the following services:

- Aerial thermography
- Ground thermography
- Switchboard thermography and HV switchyard thermography
- Onsite Electroluminescence testing
- Site image mapping
- IV curve tracing
- VOC testing
- Ground fault testing and fault finding
- AC analysis temporary or permanent solution with integrated software
- AC fault analysis with integrated software
- AC low voltage testing
- AC high voltage testing
- MV/HV transformer testing
- Ring main unit testing
- Oil testing
- Relay injection testing
- Onsite rectification
- O+M solutions

Assigning ongoing analysis and rectification of your electrical assets to CPS National provides the assurance of optimum performance and availability.

**Electroluminescence (EL) Testing**

CPS National has the capability to undertake onsite EL testing to detect hidden defects in the structure of the PV cell. This capability allows both EPC’s and manufactures to verify a number of issues that may not be identifiable otherwise, including:

- Micro cracks
- Grid finger interruptions
- Snail trails
- Over tightened panels
- Damage from hail
- Damage from mishandling
- Potential induced degradation (PID)
ELECTRICAL ASSET CONDITION AND SAFETY MONITORING

INCORPORATING AUTOMATIC EARLY WARNING OF ASSET DETERIORATION THROUGH CONTINUOUS MONITORING

NATIONWIDE COVERAGE

CPS National has offices located in all major states. Combined with Ampcontrol's coverage there are few places we cannot reach. We can provide services from the south of Tasmania to the far north of Western Australia, Northern Territory and Queensland.

CPS National has been providing critical power services and support for over 20 years and Ampcontrol over 50 years. Our huge wealth of knowledge and capabilities cover design, manufacture, installation, testing and on-site services.

We can tailor a service to meet your asset requirement no matter how small or large. We provide solutions and organise pricing for any rectification works while on-site through our qualified electricians, eliminating the cost of arranging work teams to perform the work at a later date. For any major rectification works, we can provide complete end to end solutions and installation.
Together with Captech, another Ampcontrol Group company, we can provide automatic early warning of deterioration of your entire electrical asset through continuous monitoring. Often more emphasis is put on PV output and not the safety elements of the electrical system.

A solar farm is not just inverters, it is kilometres of cables, thousands of PV modules, hundreds of junction boxes, dozens of inverters and other associated switchgear. And a solar farm is not like any other electrical installation. It is subjected to moisture, temperature, over-voltage, dust, lightning and rodent or mechanical damage. All of these factors can have a negative effect on electrical insulation and system availability.

When a solar farm is new, properly designed and built, the main concern is exporting power. But as the installation ages, PV-module failures, breakdown of inverters or deterioration of electrical insulation seems inevitable. If left unaddressed, it will lead to unexpected interruption resulting in unplanned downtime and/or costly repair. This results in a loss of exportable capacity and revenue and unhappy investors.

The BENDER product offers a complete solution. The ‘PowerScout’ software and devices such as a Power Quality Meter, Earth Fault, Insulation and Load Current Monitors provide predictive maintenance and ensures:

- Higher availability
- Early detection of gradually developing insulation faults
- Continuous monitoring
- Early detection of fault currents
- Less costs incurred due to unexpected malfunctions and shutdowns
- Voltage
- Current
- Frequency
- Power
- Exported energy
- Current unbalance
- Voltage unbalance
- Current harmonic distortion
- Voltage harmonic distortion
We service all of Australia, from metropolitan centres to the most remote and inaccessible locations.
HAVE A QUESTION?
Contact us via email, phone, website or LinkedIn.

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