Paving the way to energisation
End to end high voltage metering & testing

Australian businesses power our country’s future. That’s why we look ahead to deliver the best energy solutions for today and tomorrow.

Mondo is one of Australia’s leading multi-utility metering solutions businesses. We provide tailored offerings to distribution and transmission network service providers, developers, constructors, engineers, asset owners, retailers, consultants and commercial and industrial businesses.

Whatever the size or nature of your business, you will benefit from our extensive experience in providing accurate and cost effective metering services right across the country.

We design and build systems for efficiency, generation, metering and storage – incorporating solar, batteries and other technologies.

Our services begin with leading utility metering solutions and progress to fully integrated private mini-grids. These mini-grids, or virtual power plants, connect multiple buildings or sites to monitor, capture, store and share energy right across your enterprise.

Whether your business has one location or hundreds, we transform data from our comprehensive energy monitoring and metering systems into bright solutions for your company’s future.

Working together for a bright future.

Mondo Power Pty Ltd is an independent subsidiary of AusNet Services Ltd
Working with Mondo

Mondo specialises in complex infrastructure projects. We build, own and operate assets and help you manage risk, control costs and meet compliance obligations.

Our solutions solve the problems that large businesses face by combining state-of-the-art technology and years of expertise with a strong track record of delivering high-quality results to exacting standards.
Behind-the-meter
Mondo designs and builds systems that generate, manage, store and share energy. We offer flexible Power Purchase Agreements (PPAs) to commercial and industrial customers leveraging our expertise in design, finance, supply, installation and maintenance.

We offer customers the opportunity to reduce energy costs and deploy solar with no upfront cost, with ongoing operations and maintenance included.

Metering and data
Mondo is one of Australia’s leading multi-utility metering businesses. We have specialised in HV meter equipment and installations since the 1970s and operate in all states across Australia. We are an accredited Metering Coordinator, Meter Provider and Meter Data Provider specialising in LV and HV metering and sub-metering.

We provide a complete planning, sourcing, installation, maintenance and audit service that will make sure your electricity metering requirements, large or small, are safe, secure and comply with regulations.

Community energy
Energy hubs are our model for Australia’s energy future. They demonstrate that communities can be empowered to generate, store and share their own renewable energy. Along with solar systems and battery storage, exciting opportunities will open up in the future, such as hydrogen conversion, waste to energy, and electric vehicle charging stations.

Mondo can provide opportunities for communities to benefit from large wind or solar farms that are either planned, operating or under construction in their area.
Current, voltage transformer testing and energy metering calibration

We ensure that your metering infrastructure is safe and the data is accurate for market billing. In addition, we ensure your compliance with all National Electricity Rules.
Current Transformer

The current transformers (CTs) form part of the metrology of the installation. We use state-of-the-art equipment to complete excitation, ratio, polarity and winding resistance tests:

- Testing to AS 60044.1 and AS 1675 standards
- Testing to IEC 61869 International Standard
- Primary injection
- Secondary injection
- Burden-impedance measurement

Voltage Transformer

Similar to the CTs, the voltage transformers (VTs) also form part of the metrology of the installation. It is important to verify ratios and phase accuracies to ensure data being measured is compliant and accurate:

- Testing to AS 60044.2 & 5 and AS 1243
- Testing to IEC 61869 International Standard
- Primary injection with independent source
- Investigating simulated supply testing by use of Omicron Votano

Metering Calibration

It is important to ensure the meter is calibrated and is operating within the specifications provided by the manufacturer. Our testing facility provides the following calibration services, both in the field and in our laboratory:

- 4 quadrant calibration
- Active and reactive energy
- In-service burden measurement and compensation determinations if required

Did you know?

The National Electricity Rules require all components of a HV metering installation to be tested every 10 years. This includes the meter, current transformers (CTs) and voltage transformers (VTs). We test and repair all components of the installation and offer a faulty equipment replacement service.
From metering advisory to ongoing testing and detailed data analysis, we provide a tailored range of products and services and our high voltage experts can help you establish the best solution for your installation.
High voltage advisory services
Our team works directly with customers and project managers to provide guidance and advice on all aspects of HV metering.

Our services include:
• Metering scope advisory
• Process and engineering advice
• AEMO application and registration of "K" form
• Coordinating with DNSP to obtain and register a NMI
• Interpreting Chapter 7 of the National Electricity Rules
• Nominating a Metering Coordinator

Pre-commissioning and installation
Our pre-commissioning services ensure an on-schedule, compliant and efficient HV metering installation. We are one of the few that provide NATA-accredited testing of CTs and VTs.

We offer:
• Design, scoping and drawings
• In-house manufacture and build of meter panels
• Pre-commission testing as required by the Rules
• HV meter, CT and VT installation and commissioning
• Post-installation follow-up

Testing and ongoing compliance
Our ongoing compliance package is specifically designed to provide peace of mind that your metering assets are operating correctly and to be there for you if a fault arises.

This includes:
• Priority fault response
• HV Maintenance Plan
• Ongoing meter testing and CT visual inspections
• Yearly reports on site performance
• Burden measurement of metering circuitry
• NATA testing of metering CTs and VTs

NATA accredited
As a NATA-accredited service provider we ensure that your metering infrastructure is safe and the data is accurate for market billing. In addition, we ensure your compliance with your HV testing obligations under the National Electricity Rules.
Post-commissioning metering and reporting

Mondo provides both contestable ‘market’ and sub-metering ‘off-market’ services. We can design a metering solution to allow a granular view of your electricity usage.

**Our services include:**
- Metering Coordinator
- Meter Provider
- Meter Data Provider
- Sub-metering, including for complex PPA arrangements
- Web portals for data visualisation and reporting

Power quality metering and analysis

We offer a real time power quality metering solution which can be used to monitor and analyse fluctuations in voltage and current harmonics. We use an EDMI Mk6E and offer both permanent and short term solutions.

**We can measure:**
- Harmonic analysis to 50th harmonic of voltage and current
- Total Harmonic Distortion of voltage and current
- Recording frequency variance
- Instantaneous 3 phase waveform capture
- Detailed site-specific analysis and reporting on the results

Ubi smart energy management system

Ubi is an advanced energy monitoring and management system that delivers accurate and timely energy consumption information with the following benefits:

- The provision of multi-level, multi-circuit, real-time energy data
- Remote access via any web connected device
- Customise and switch between individual sites or aggregated groups
- Monitoring import and export of solar and battery systems
- Direct access to all data via the API interface for integration with your energy or building management system
What we need from you to get started

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We recommend

- VT class and accuracy is 0.5 and rated burden of VT is 50VA
- CT class and accuracy is 0.5s and rated burden of CT is 15VA
- One NMI for each connection point/metering point
- Your Registered Electrical Contractor (REC) follows the local Service & Installation Rules (SIRs)

Want to learn more?

Call: 1300 735 328
Email: business@mondo.com.au