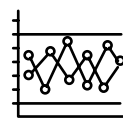
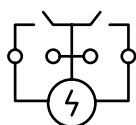
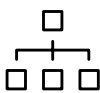
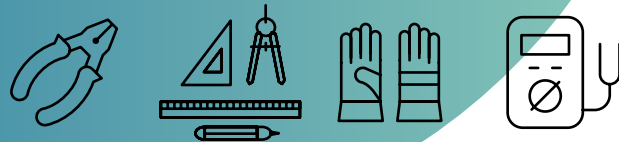


mondo®



High Voltage Metering

Business Energy Solutions



mondo.com.au

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.

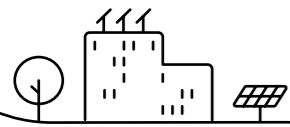
We design and build systems for efficiency, generation, metering and storage – incorporating solar, batteries and other technologies.

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

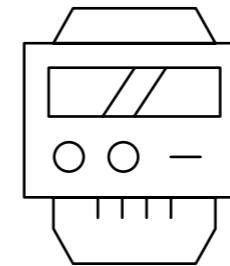


ABOUT

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.

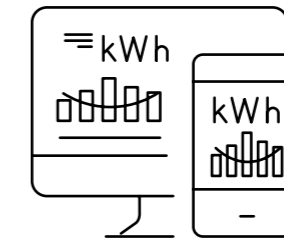
Our solutions solve the problems that large businesses face by combining state-of-the-art technology and years expertise with a strong track record of delivering high-quality results to exacting standards.



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.

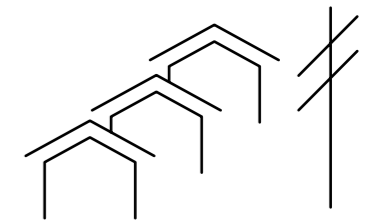
We provide a complete planning, sourcing, installation, maintenance and audit service that will make sure your electricity metering requirements, large or small, are safe, secure and comply with regulations.



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.

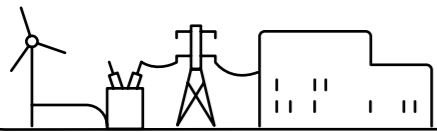
We offer customers the opportunity to reduce energy costs and deploy solar with no upfront cost, with ongoing operations and maintenance included.



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.

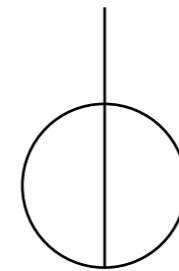
Mondo can provide opportunities for communities to benefit from large wind or solar farms that are either planned, operating or under construction in their area.



WHAT WE DO

Current, voltage transformer testing and energy metering calibration

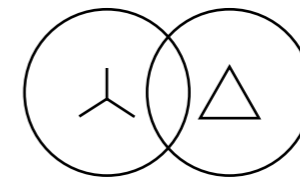
We ensure that your metering infrastructure is safe and the data is accurate for market billing. In addition, we ensure your compliance with all National Electricity Rules.



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:

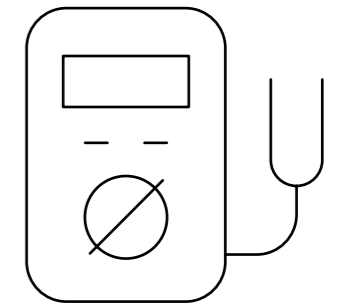
- Testing to AS 60044.1 and AS 1675 standards
- Testing to IEC 61869 International Standard
- Primary injection
- Secondary injection
- Burden-impedance measurement



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



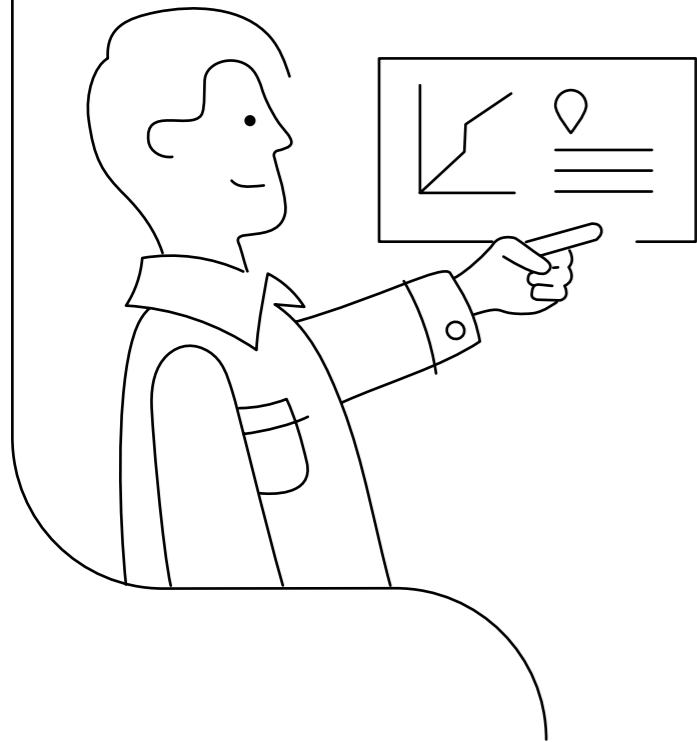
Metering Calibration

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?

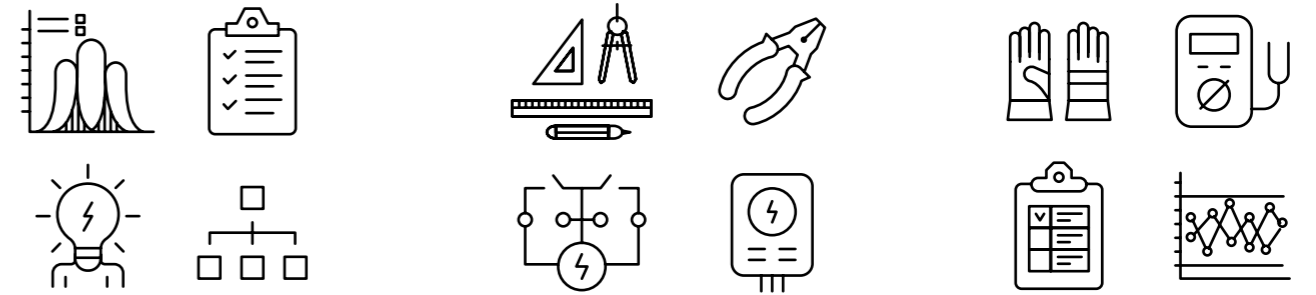
The National Electricity Rules require all components of a HV metering installation to be tested every 10 years. This includes the meter, current transformers (CTs) and voltage transformers (VTs). We test and repair all components of the installation and offer a faulty equipment replacement service.



WHAT WE DO

High voltage metering products and services

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

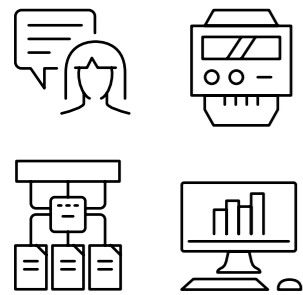
This includes:

- 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.

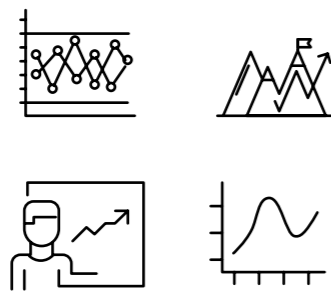


Post-commissioning metering and reporting

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

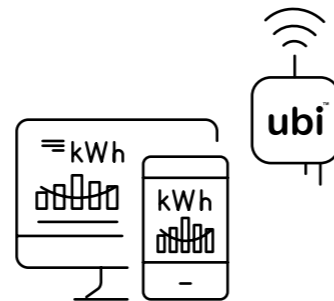


Power quality metering and analysis

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 EDML 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

Pre-commissioning

1. Single Line Diagram that shows the metering point
2. Map of the connection point
3. CT VT ratios, classes and burdens
4. Whether you require market or non-market metering

Post-commissioning

1. NATA/ILAC Certificates for instrument transformers
2. Estimate of your annual energy consumption or generation
3. Single Line Diagram showing an overview of your powerflow
4. Wiring diagrams that show the connection from secondary terminals of CTs and VTs to the meter marshalling box and then to the meter panel
5. Whether you require market or non-market metering

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: energyservices@mondo.com.au



Empowering a bright future.

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