

# sub metering - understanding your site

This factsheet has been created to help you through the process of understanding what you want from sub metering and how you can get it!

Metering Dynamics multi utility sub metering solutions gather accurate energy and utility information to assist you in understanding consumption across your site.

**Metering Dynamics provides sub metering solutions to monitor electricity, water and gas meters using a range of pattern approved meters and data loggers.**

To find out what Metering Dynamics' can do for your business, contact us:

Call 1300 792 611

Email [sales@meteringdynamics.com.au](mailto:sales@meteringdynamics.com.au)

Visit [www.meteringdynamics.com.au](http://www.meteringdynamics.com.au)

intelligent.

The process of implementing sub metering on your site can be quite complex, especially if you are unsure where to start. Metering Dynamics has created the following guide to help you implement a sub metering solution that is right for your site.

## Phase 1 - Discovery

## Phase 2 - Control

## Phase 3 - Decision

## Phase 4 - Installation

## Phase 5 - Understand

### Phase 1 - The Discovery Phase

The first phase involves understanding what your supply grid looks like and discovering where pipes, cables and meters are located and what they supply.

We recommend that you utilise professional expertise in each area to help you create the following items, relevant to your site:

- Electrical single line diagrams;
- A water plan / layout and/or
- A gas plan / layout.

### Phase 2 - Gain Control

Based on the output from Phase 1 you will need to determine what you want to achieve and gain control of. For example do you need to meter your water supply to a particular process in order to meet mandatory compliance reporting requirements? Maybe you want to meter a cooling tower and need to collect water and electricity usage?

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## Phase 2 - Gain Control cont'd

A few of the questions you might want to consider are:

1. What processes/buildings/areas you want to measure and why?
2. What are the key drivers behind your requirements to sub-meter?
3. Is the meter to be measured located within your boundary?
4. Is the meter located in an accessible location with a readily available power supply? (If not, Metering Dynamics has options available)
5. Do you share the meter(s) with another property/process?
6. Is there an opportunity to cut-in a meter closer to your property/closer to a power supply?

## Phase 3 - Make a Decision

By this phase you should have a good understanding of what you want to achieve.

Now is the time to decide what you want to sub-meter and make the call to Metering Dynamics. We will work with you to scope your site and provide an accurate quotation to supply the sub-metering you require to meet your needs.

## Phase 4 - Install

For sub-metering of electricity and/or water we work closely with you and manage the project to ensure a smooth and easy installation. We also look at opportunities to work closely with your preferred local electrical/plumbing contractors who are familiar with your site to complete the installation. We then commission and validate your site to finalise the installation.

Sub-metering of gas is a specialised area and as such requires specialist advice. In most cases we liaise with your preferred local contractors to pick up pulsed data from the main meter. The adding of a sub-meter to a gas pipeline is not standard practise and needs serious consideration before being pursued. Metering Dynamics can offer support and advice with this, as required.

To obtain data from your chosen meters Metering Dynamics requires a pulse output from a meter. This way data logging equipment is easily connected and the data you need can be provided quickly and simply with minimal fuss.

## Phase 5 - Understand!

Once commissioned and validated, accurate and reliable data is delivered daily in a number of formats, depending on the type of utility being measured.

This data can be uploaded to your reporting systems or you could take advantage of Metering Dynamics' EMP Multi Plus system to help take control of your data with a range of powerful tools and reports that can help you to meet a range of reporting requirements.

insightful.



## Reasons to install sub-metering

There are many reasons to install sub-metering, including:

- Government reporting for efficiency purposes (Energy Efficiency Opportunities (EEO))
- Determining a building rating such as the National Australian Built Environment Rating System (NABERS)
- Statistical analysis to improve plant efficiency
- Greenhouse gas emissions reporting
- Utility bill validation
- On selling for tenants

Whatever your reason Metering Dynamics can work with you to deploy a sub-metering solution that will meet your needs now and into the future.

## sub metering metering infrastructure components

