# What Type Of Submetering Is Right For Me?

## What Kind of Submeter Do I Need?

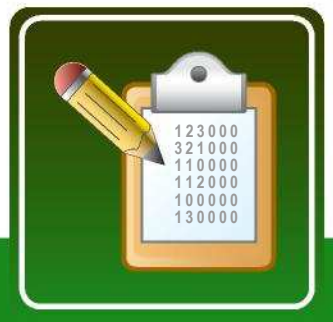
This simple guide allows you to compare the strengths and limitations of available low-to-moderate cost submeter types so you can match tool capabilities to your project goals. The variety and capability of device-oriented electrical submeters is expanding. But increased options make it more challenging to choose the most effective tool.

## When Might Submeters Be Helpful?

Submeters help Facility Managers, energy managers and tenant organizations identify:

1) inefficient equipment;
2) use and configuration alternatives; and
3) equipment and user profile management opportunities.

## Submetering Comparison Chart




### Simple

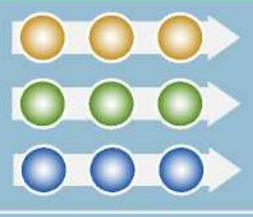
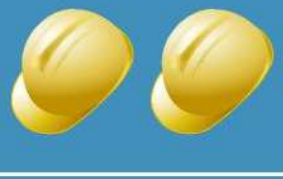
**A device able to measure instantaneous power and cumulative energy data but requires manual reading and recording.**

### Enhanced

**A device able to measure and record interval data but requires manual data file download.**

### Advanced

**A device able to measure and record time-series interval data, communicate data to a remote location, and integrated into an energy management or building automation system.**

| | Simple | Enhanced | Advanced |
|---|---|---|---|
| **Data** Unprocessed power and energy information collected by the submeters. |  |  |  |
| **Cost** Submetering equipment and installation cost. |  |  |  |
| **Labor** The labor required to operate and maintain the submetering effort, such as data recording. |  |  |  |
| **Analysis** Expertise required to utilize the data and apply it to energy management decisions. |  |  |  |

## Goals, Devices, Submeters, And Benefits

| Goal | Types Of Applicable Devices | Submeter Type | How You Use It |
|---|---|---|---|
| **Identify** inefficient equipment | **Productivity Equipment**<br>Printers, copiers, fax machines and their configurations. | All | Inform equipment replacement priorities and alternative configurations. |
| **Understand** use and configuration | **Kitchen**<br>Refrigerator, water heater, coffee makers, and dishwashers.<br>Configuration and occupant use profiles. | Enhanced & Advanced | Realign operation and maintenance priorities and inform equipment replacement.<br>Identify alternative configurations and engage tenants on conservation efforts. |
| **Develop** equipment and user profile opportunities | **Workstation**<br>Laptop, monitor, phone, and task lights.<br>Different user profiles (research, admin and managers). | Enhanced & Advanced | Quantify energy use, compare products, and inform equipment purchase and issues.<br>Evaluate equipment configurations, peak use profiles, and demand management practices. |


**Key References:**

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