

## Z-NET Uralla Energy Metering Equipment

Z-NET Uralla employs a number of Efergy Engage energy meters to measure power consumed and produced in houses and businesses in the shire. When viewed through the Engage webpage, the meter outputs provide real time visual displays of power used. Reports may be downloaded from the user's account as csv files for analysis.

Z-NET Uralla also views these files through ICT International's DataView software for a higher quality presentation of the collected data.

### Why Efergy?

Z-NET Uralla has no commercial linkage with Efergy. In reviewing the technology we have found that this equipment meets the needs for the level of detail required for a Business Energy Review (monitoring multiple circuits), plug and play capacity with modems to transfers data, ease of instalment, and price. We recommend each Community Energy Group undertake their own due diligence. We are sharing this information to help groups get started rather than making a firm recommendation as to suitable technology for a particular project.

### Energy Monitoring Equipment

1 or more x Efergy Engage hub(s)

1 to 5 CTs per hub. (Allow 1 x CT per circuit or phase to be metered (3 phases require three CTs as each phase on the main supply will have a different load.)

1 x Ethernet switch, if more than one hub is used

If a fixed router is not available then 1 x portable router (e.g. TP-LINK router MR3020) with USB slot for a USB modem + data credit for the modem. (Note: each hub on a portable router will consume 65MB of data per day)

1 x power board with enough sockets for all power packs, connected to a reliable 240v power supply

### Suppliers

Efergy Engage meters are available from various suppliers. <http://efergy.com/au/>

A Solar kit provides 1 x hub + 2 x Current Transformer (CT) transmitters

<http://efergy.com/au/products/energy-gateways/engage-solar#.WSeO44VOKUk>

Set up manual [http://efergy.com/media/download/manuals/australia/engage\\_solar\\_qsg\\_au.pdf](http://efergy.com/media/download/manuals/australia/engage_solar_qsg_au.pdf)

Instruction videos <http://efergy.com/au/instructionvideos/>

One Efergy hub can manage up to five CTs. If more than five circuits are to be monitored then extra hubs will be required.