



Service Information Sheet

METERING & DATA SERVICES

Advanced Metering and Automated Meter Reading (AMR) for Energy Management

WHAT IS ADVANCED METERING?



Advanced metering facilitates two way communications, combining technology and management processes to record, collect and analyse energy usage for Multi-Utility meters. Data can be collected remotely on pre-defined schedules (e.g. half hourly). Alternatively, data can be collected upon request (on-demand) at the pre-determined intervals (e.g. daily / weekly). This can be used for aM&T (automated monitoring and targeting) purposes, utilising the transmission of data and analysis over a communication network (GSM/GPRS/PSTN) to a central hub.

WHERE IS ADVANCED METERING USED?



The Government Energy Policy requires all large non-domestic companies in profile classes 5-8, to have an advanced metering device installed by April 2014. The legislation is likely to affect some 170,000 electricity meters. The Energy Policy not only means installing an advanced electricity meter is mandatory in these circumstances but is a prerequisite in electricity supply agreements.

Traditionally in the UK, domestic and industrial / commercial meters were manually read, however innovation in design & technology and the need to reduce energy consumption, has allowed for progression in metering, ultimately benefiting the utility suppliers and their customers alike. Advanced metering has been trialled by Carbon Trust and a number of suppliers in SME's, proving energy and money savings could be achieved.

The Government's commitment to reduce carbon emissions, has increased the demand for advanced metering in the market, and has since been mandated that all meters in profile classes 5-8 will require a COP 10 certified meter.

WHAT ARE THE BUSINESS DRIVERS?

In a bid to reduce CO2 emissions, the UK Government have adopted the CRC Energy Efficiency Scheme for a 34% reduction by 2020, and an 80% reduction in greenhouse gas emissions by 2050 against the 1990 baseline. This scheme covers public and private sector organisations, initially affecting approximately 5,000 organisations fully in the UK, who account for approximately 10% of the UK's emissions, and commitment in some form from a further 20,000 large public and private sector organisations.



The UK government are committed to adopting advanced electricity meters in all commercial premises and in every household in Great Britain. They believe this will empower customers and house owners to rationalise their energy consumption, resulting in consumers becoming more responsible and aware of their carbon footprint.

In a bid to help reduce the UK carbon emissions, Lowri Beck Services provide advanced metering solutions, utilising low power, cost effective automated meters to record the interval consumption of electricity usage for single phase, but predominately three phase customers. This will help customers and suppliers alike to manage energy consumption more efficiently.

KEY BENEFITS

- Cost effective solution
- Eliminates estimated billing
- Provides accurate and timely recording
- Enables efficient energy monitoring
- Remotely Configurable
- Flexible tariffs to measure energy consumption over defined periods
- Stores measurable data for multiple time periods
- Two way communication, allowing ease of updates to and from supplier

