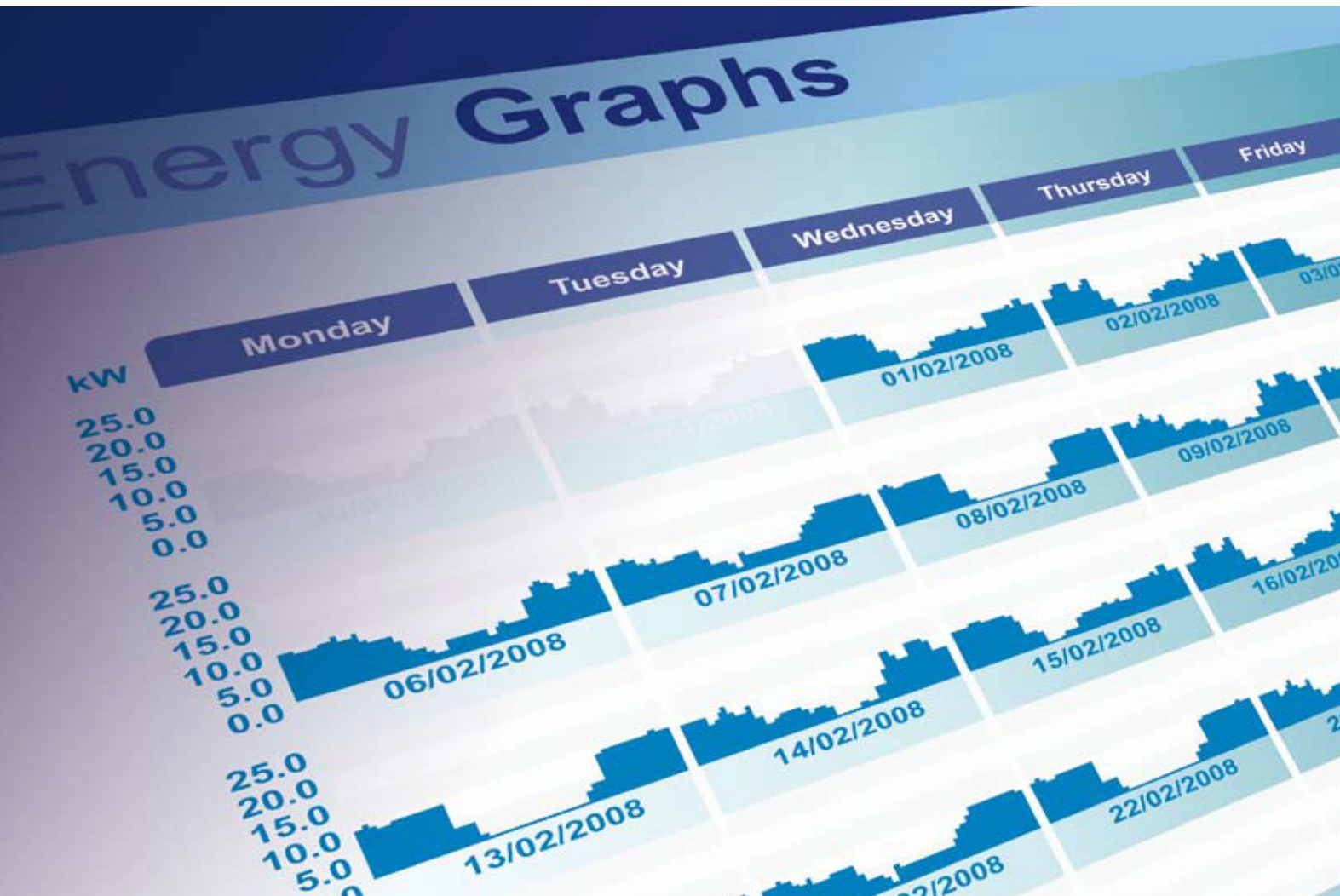


Smart thinking... Smart metering



Market leaders in GSM based AMR systems for
gas, water and electricity applications

Technolog has been designing and supplying AMR technology and systems to the gas, water and electricity industries for 25 years. A pioneer in the development of wireless GSM based Automatic Meter Reading systems, it is a market leader in smart metering.

With its large installed customer base, and a proven reputation for engineering excellence and innovative IT solutions, Technolog offers a total, end-to-end solution. Its family of 'Cello' products has been developed in partnership with key customers specifically for use in the utilities sector.

This has allowed the company to develop bespoke functionality which adds value to its customers' businesses, improving both their operational efficiencies and enhancing the delivery of end-user services.

Technolog offers a total 'smart' solution to the gas, water and electricity sectors. It provides timely information and analysis of metering data in easy-to-read formats – whenever and wherever you and your customers need it.



TECHNOLOG

Smart metering solutions

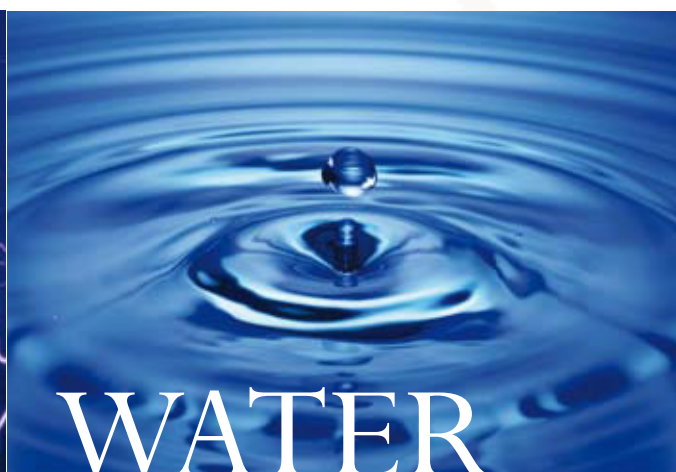
Market leaders in GSM based AMR systems for gas, water and electricity applications



GAS



ELECTRICITY



WATER



DATA

Historically, any electrical equipment has had to be connected to a gas meter via a safety barrier. This was expensive and required ongoing maintenance, making AMR cost-prohibitive in many applications.

The **Cello6** eradicates the need for safety barriers. Certified intrinsically safe (IS) for the most hazardous environments, the Cello6 can be connected directly to a gas meter or gas volume converter and installed in potentially explosive atmospheres.

The **Cello6** can also be connected directly to other devices such as water meters, and provides outputs for additional equipment, including the consumers' own energy management systems.

Technolog is rolling out the **Cello6** in a number of countries to deliver large scale AMR projects – safely and efficiently.



The Cello range includes specialist products which can be used with polyphase and single phase meters in the electricity sector.

This includes the **Cello EM**, a plug and play device which connects to the serial port of a wide range of meters.

Technolog has also developed a reference design which allows meter manufacturers to incorporate GSM/GPRS technology into their products.

As well as GSM based AMR devices, Technolog offers electricity companies a low-cost, highly reliable meter programming and reading service. This allows a smart meter to be programmed with the correct tariff structure at the point of installation and ensures accurate data capture throughout its life.



Large water meters are usually installed in underground chambers under metal covers. Traditionally, this has proved a challenge for automatic meter reading based on wireless communications.

The **Cello4** has been specifically designed to counter this, incorporating an innovative antenna design and the transfer of data via the robust SMS text messaging service.

The **Cello4** is waterproof to withstand flooding and each product is comprehensively pressure tested before leaving the factory.

Tens of thousands of **Cello4s** are installed throughout the world, delivering up-to-date accurate metering and network data on one of the world's most precious resources.



Utilities all around the world trust Technolog with the delivery of data using its resilient and scalable data centres.

The backbone of Technolog's meter reading service is its Utility Data Network (UDN) which supports inbound SMS and GPRS methods of communication. The UDN has duplicated high speed connections to the GSM operators and no single point of failure, thereby guaranteeing continuity of service. Data can be routed directly to the customer or securely stored in a resilient clustered database. As new data is received, it is validated and exported to customers in industry standard or bespoke formats. In addition, customers receive daily reports of their AMR system performance.

Technolog also host websites where the data is conveniently presented. These can be customised to the utility or meter service provider's corporate style and provide information matching the customer's needs, ranging from detailed energy analysis to simple trends and meter readings.

SUMMARY

The advantages of doing business with Technolog are:

- **engineering excellence**
- **innovative data and communications solutions**
- **in-depth understanding of the energy and utilities market**
- **commercial awareness and approach.**

In summary, we offer a complete end-to-end solution with bespoke functionality as required. We understand the value of business critical data in the information age.

Technolog solutions are based on proven, secure technology and we have established an impressive track record of success in water, gas and electricity AMR projects.



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If you would like to know more about how Technolog could help improve your business, please contact us or visit our website **www.technolog.com**

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