



**SIEMENS**



**Smart Metering for Business**

Services for business, commercial and enterprise customers

[www.siemens.co.uk/metering](http://www.siemens.co.uk/metering)



# The challenge

**Rising prices, estimated bills and a lack of knowledge as to how or where to reduce consumption: this is the challenge faced by organisations both large and small, in both the private and public sectors.**

## **The search for a solution**

Effective metering is the first, vital step to achieve accurate utility billing and reduce your consumption.

According to the Carbon Trust, the average UK business wastes 20% of the energy it buys. Whilst the installation of a smart meter will not eliminate the wastage, it will provide organisations with the information to understand where the wastage is occurring.

**The cover image shows an area within 'The Crystal', Siemens' new landmark global urban sustainability centre in London, which deploys a wide range of sustainable technologies, including energy management.**  
[www.thecrystal.org](http://www.thecrystal.org)



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**We choose to work with Siemens for accurate, reliable metering to enable us to manage our energy.**

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**Head of Environment, a major Siemens metering customer**

## The Smart meter

**When a smart meter is installed, the data is automatically collected and sent to the supplier for billing, without the need for a meter reader to call. This ensures accurate bills, even for remote or unmanned premises that meter readers previously could not get access to.**

It also provides organisations with the information to understand their consumption – perhaps for the first time. In short, the consumption is measured every half hour and uploaded to an easy-to-understand web portal for the business to examine the following day. This prompts investigation into questions such as the following:

- Why do we consume so much power overnight, or at weekends, or in holiday periods when we are closed?
- Why is it that we close at 5.00pm but consumption does not reduce until 8.00pm?
- Why are we using 20% more energy this week than last week / month / year?
- Why is site 'A' using less energy than site 'B' when they are the same size, or have the same function or generate the same revenue?
- What happens if I turn off this ancillary equipment – how much will I save?

Automatic alarms can be set up to warn you of consumption anomalies when they occur, rather than present a surprise on your next bill.

The government has now set out its expectations for the implementation of smart metering nationwide, with the mass roll-out of smart meters for domestic consumers and small businesses expected to start in 2014 and to be completed in 2019 – while large business will have 'advanced' smart meters installed by April 2014.

### **'Why not just let my energy supplier install the meters?'**

**That would be one option. But an alternative route is to appoint a reliable, independent and specialist business partner: a provider that can manage your installation requirements efficiently, can ensure that the data generated is accurate and can also offer practical, easy to understand energy management services at a competitive price. Why wait to start generating savings if you can start now?**



## Siemens – an outstanding metering service provider

**Our meters can operate as stand-alone units or as part of a comprehensive metering system – and are backed by a 5-year warranty on both meters and modems.**

**Siemens Metering, Communications and Services is the leading independent provider of metering services in the UK: a nationally accredited meter operator, data retriever and data collector. We provide a comprehensive range of metering services that are crucial to ensuring timely and accurate meter reading performance – the cornerstone of effective energy management.**

As the largest independent provider of utility services in the UK, Siemens Metering, Communications and Services has an established pedigree in the provision of utility data collection services. We manage the data from over 7 million electricity, gas and water meters and have an enviable record of providing customers with timely and reliable information.

### **An end-to-end Smart metering solution**

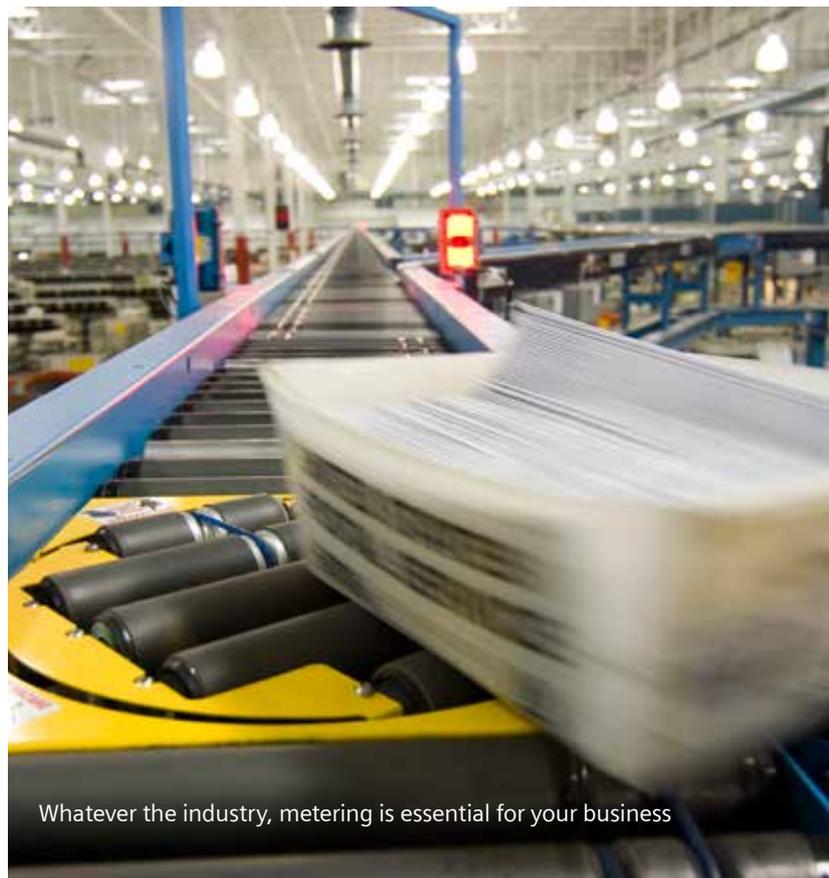
Our extensive metering and technological expertise enables us to offer an excellent low-cost smart metering solution. We ensure accurate meter readings at source, then distribute the readings to your energy

supplier at regular intervals. As a result, you won't receive any more estimated bills.

By combining smart metering technology and our existing core services, we offer a robust, low cost solution. This includes installation of metering technology to suit your site profile, as well as meter maintenance and data retrieval services.

The Siemens technology offering consists of a low cost integral meter, which uses GPRS technology to retrieve the meter reading – keeping costs low. The meters we employ offer outstanding measurement and complex tariff capabilities for use in both industrial and commercial current transformer and whole current metering applications.

In addition, you can take advantage of 'Sie-Smart', a load profile energy management software solution that is very easy to use. It gives you total transparency of your energy consumption across an active portfolio base. *See our separate Energy Management brochure for more details on this.*



Whatever the industry, metering is essential for your business

## Meter installation and maintenance

Siemens has been providing these services since the automatic meter reading market began in 1994 with 'half-hourly' metering for the UK's largest consuming sites.

We Provide these services to all of the UK's electricity suppliers, as well as directly to many of the UK's largest commercial and industrial organisations, high street names and thousands of single site customers.

Siemens is a name that you can rely on to provide an excellent and price-competitive service. All of our services are provided by a dedicated field force supported by outstanding back-office teams – and are underpinned by required industry accreditations and qualifications: including relevant 'competent person' listings by Elexon – and certification of competence for meter installation in accordance with the Meter Operation Code of Practice Agreement (MOCO PA). This gives confidence in

the accuracy, quality and efficiency of our services.

### Specific service offerings

**Site Surveys:** accurate on-site analysis facilitating both safety / technical and savings-related activities.

**Meter Procurement:** Siemens has global procurement arrangements to provide best prices from all major meter manufacturers, utilising its expertise and in-house testing to ensure quality.

**Meter Financing:** We can offer competitive financing options – and the metering solution can be offered on an outright purchase or lease option.

**Meter Installation:** Siemens deploys an experienced workforce providing national coverage – undertaking comprehensive meter installation, replacement and safety review, with a '24 / 7' installation capability.

**Sub-Metering:** this facilitates more focused energy monitoring of individual areas of a site, collecting the consumption data every half hour and displaying it through the SieSmart Energy Information Platform. Project-specific service offering and pricing is offered.

**Communications Installation:** selection and installation of most appropriate communications (PSTN, GSM, GPRS) tailored to your requirements and to the site conditions.

**Metering Configuration:** enhanced on-site technical solutions to facilitate a "single visit, single fit" principle, reducing site disturbance.

**Maintenance Support:** once your meters have been installed, service provision needs to be maintained for the life of the meter.



## Data Collection and Analysis

**Siemens' size and strength guarantees stability and continuity, but we also have the capacity to respond quickly and cost effectively to your needs. By choosing Siemens as your independent data collector you can be sure of receiving a constant flow of reliable, accurate and timely data for as long as you need it.**

**Accurate energy consumption data is vital to help you save cost, avoid penalty payments and bring about environmental benefits. The selection of a reliable data collection partner is therefore critical. Siemens can assist you with automated field data capture to ensure data accuracy.**

We have provided a wide range of data retrieval services, including mobile and fixed line communications, since the opening of the competitive market in 1994.

### **Data collection**

Dial-up field communications are supported across the range of telecoms solutions and data retrieved is processed using efficient, industry accredited solutions. Interruptions in data are alerted internally to our field support staff, enabling efficient problem resolution.

Working closely with your energy supplier, we process meter readings on a monthly or quarterly basis to ensure that billing is accurate. Half hourly profile data is

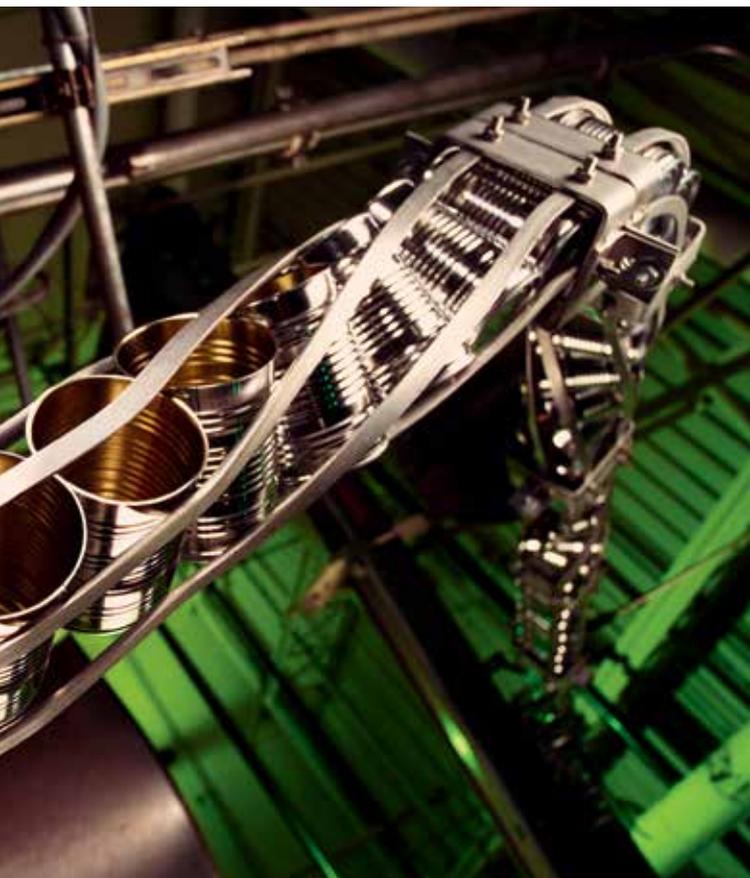
provided to the highest quality levels by the next day and is despatched through either a file format agreed with you or via our web based data management solution – Sie-Smart.

### **Sie-Smart: for useable data analysis**

Sie-Smart enables you to view your energy consumption in an easy-to-understand graphical interface. Alerts can be set for consumption levels above and below "user set trigger levels" more complex analysis can be undertaken using the established functionality, which allows you to group or compare sites, to deliver tailored reporting. *See our 'Energy Management' brochure for more information on this energy information tool.*

### **Reporting**

With reports e-mailed in line with your requirements and with a facility to output files for use with existing analytical tools, the Siemens solution provides a comprehensive support package to promote efficient energy management activities.



## Benefits

**From small businesses with one or several premises, through retail shops and complexes, large commercial or public sector sites and buildings, to business parks and multi-tenanted buildings: all potential users can benefit from the implementation of smart metering.**

Siemens provides solutions right across the range – serving customers as diverse as McDonalds and Balfour Beatty, Sainsbury's and the Post Office, Transport for London and the Arcadia group, among many others.

Benefits that you may expect include the following:

### **Ensure accurate bills**

Because we collect the meter readings automatically without the need to visit, you can expect accurate energy bills from your supplier.

### **Monitor energy usage**

Smart Metering from Siemens allows you to monitor and track your energy

usage on a daily basis, compare energy usage over multiple sites or the same site over multiple time periods. This can help you to forecast future energy usage.

### **Manage energy use – control your costs**

Knowing where you're consuming more energy means you can take steps to manage and control your consumption. You'll be able to take control of your energy usage – reduce your costs and lower your energy bills.

### **Save energy – reduce your carbon footprint**

Being able to see when, where and how much energy you consume across your operation means you will be able to target where and how to save energy: and thereby lower your carbon footprint.

## Next steps

There are a number of smart metering solutions and services on the market. As a result, you could end up using multiple agents to support your smart metering needs – making an already over-complex market solution even more complex.

Siemens removes this complexity for you. Our knowledge and expertise in this market provides you with an accredited, end-to-end metering and services solution. We can supply the meter, retrieve, validate and present the data and open up useful energy management opportunities. Siemens takes responsibility for the whole operation – end-to-end.

Contact us for more information to discuss how we can help you take the next step on your energy management journey.

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and Services**

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