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Siemens Metering Services provides bespoke solutions and therefore specifications may change.

V2 241008 Grid Metering
Introduction

Siemens Metering Services is the global centre of excellence for energy services within the Siemens group, our key aim is to set the standard for offering innovative solutions to customers’ requirements. We provide these solutions across the whole range of utility services, from meter maintenance right through to management and analysis of the data collected.

As a leading independent expert provider of utility revenue management services, we work in partnership with the largest utilities. We also work with many public and private organisations that consume large amounts of energy, providing them with metering and data services world-wide.

As part of the global Siemens Group, Siemens in the United Kingdom is among the country’s leading companies in electrical engineering and electronics.

The Group’s products and services cover information and communications, automation and control, medical systems, transportation, power, lighting and domestic equipment.

Backed by this successful global company, Siemens Metering Services has the resources to offer outstanding customer support and service – and to develop innovative solutions for the future.

Grid metering

Grid metering is the highly accurate measurement of wholesale electricity connection points.

Located at the commercial boundaries between:
- Generators and transmission companies
- Generators and distribution companies
- Transmission companies and distribution companies
- Transmission companies

These interface points between energy companies are located at high voltage substations (>132kV). The tariff metering systems at these interface points require duplication and dual redundancy as well as high accuracy to ensure the integrity and security of metering data, thus reducing the substantial financial risk to the companies involved.

A grid metering system comprises
- High accuracy metering devices (main and check meters) contained within a metering cabinet
- Optionally, these may include
  - Interface to central control facility via real time data
  - Connection to the settlements system

High Accuracy Metering Services

High Accuracy Metering Services is the specialist division within Siemens Metering Services that is dedicated to providing metering systems and services for grid substations and power stations. High accuracy and dual redundancy are essential requirements for settlement metering systems at grid substation and power station sites where metered energy volumes have high financial value.

This specialist metering division has dedicated resources and capabilities to design, build, install and commission new metering systems.

Products

Siemens High Accuracy Metering Services division has extensive knowledge and experience of meters from a wide range of precision metering manufacturers. In addition, we can also supply our own bespoke products for certain applications.

As an independent service provider we integrate products which are best suited for the application and provide a complete turnkey solution to effectively meet customer specifications.
Siemens Metering Services' customers benefit from a laboratory accredited with the United Kingdom Accreditation Services (UKAS) that is renowned as one of the UK's leading electrical power and energy calibration facilities. Initial and routine calibration of energy metering within an IEC 17025 accredited laboratory substantially reduces the financial risk and uncertainty associated with the measurement of wholesale energy transfers.

We deliver to the agreed time scales to ensure minimal disruption to your business or organisation. By adopting a proactive approach, our laboratory team will schedule the maintenance frequency and arrange for collection, calibration and return of your metering equipment, ensuring compliance with quality assurance regulations.

Siemens Metering Services provides:

- High quality calibration services
- BS EN ISO / IEC 17025 compliant
- UKAS accredited laboratory
- Measurement transformer error calculations
- Meter compensation for measurement transformer errors
- Tailored customer service

In high accuracy metering, we are acknowledged as the industry leader. Our engineering excellence and successful track record in precision meter installations is recognised throughout the electricity industry, as is our approach, which focuses on combining innovation with the reliable delivery of packaged end-to-end solutions.

The CM32 is the latest generation of high accuracy outstation from Siemens Metering Services. The CM32's design is optimised for reliability, giving high levels of data protection and throughput – essential to large energy systems.

Siemens Metering Services' high accuracy metering systems and outstations are designed in-house, and are type-approved for use at Grid entry and Grid Supply Points.

Siemens Metering Services has also developed an Operational Summator (OMS) to supply summated data and real time operational data to the national grid control centre.

A key role within precision metering applications is the ability to deliver quality solutions on time. Our professional team makes this a reality to ensure that these complex projects are completed on time and to cost.

Siemens Metering Services provides:

- Innovative design for high accuracy metering
- Bespoke solutions
- Complete turnkey process

High Accuracy Metering Solutions

Siemens Metering Services is the leading independent provider of high accuracy metering solutions to the electrical power industry.

In wholesale energy markets where metered values represent large financial risks to energy trading companies the accuracy of metered data is vital.

Calibration Laboratory

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High Accuracy Metering Solutions

Siemens Metering Services is the leading independent provider of high accuracy metering solutions to the electrical power industry.
A proven track record

- Leading supplier of new high accuracy metering systems in the UK
- Preferred provider for the UK’s National Grid company for systems and meter operations services
- Delivering complete solutions in the UK and around the world

Typical applications and satisfied customers include:

- Portfolio Generators
- Independent Power Producers
- Transmission Companies
- Industrial and Commercial customers
- Co-generators and Combined Heat and Power units
- Engineering Consultants
- Principal Contractors
- Project Developers
- Designers
- Waste to Energy Plant Operators

<table>
<thead>
<tr>
<th>An end-to-end process for a turnkey solution</th>
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<tbody>
<tr>
<td><strong>Siemens Metering Services</strong></td>
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<tr>
<td><strong>METERS</strong></td>
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<tr>
<td>Siemens’ high accuracy metering systems and outstations are designed in house using the latest technology</td>
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<tr>
<td><strong>METER OPERATIONS</strong></td>
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<tr>
<td>A meter operator who maintains the accuracy and integrity of the metering system and ensures reliable communications for data retrieval</td>
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<tr>
<td>Siemens offers a maintenance and calibration program tailored to fit the operational constraints of the customer, whilst at the same time fulfilling regulatory requirements</td>
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<tr>
<td><strong>NEW CONNECTIONS</strong></td>
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<tr>
<td>Project management skills and reliable delivery to plan will enable you to deliver your core business objectives</td>
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<tr>
<td>Siemens works closely with all key stakeholders to ensure a smooth interface to settlement systems</td>
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<tr>
<td><strong>INSTALLATION</strong></td>
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<tr>
<td>The supply of correct metering certificates and records is essential for correct registration prior to trading. A Siemens expert can successfully guide you through registration into settlements systems</td>
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<tr>
<td>The knowledge and experience of the Siemens team will help ensure on time delivery for critical projects</td>
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<tr>
<td><strong>REGISTRATION</strong></td>
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<tr>
<td>Expertise in facilitating a seamless integration into new or existing operations</td>
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<td>Siemens offers in depth regulatory knowledge through long standing links with transmission and generation companies. Our team will help ensure effective coordination across all parties involved</td>
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<td><strong>COMMISSIONING</strong></td>
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<td>Siemens experts offer maintenance and calibration services for the lifetime of the metering systems ensuring long-term reliability of equipment and accuracy of data</td>
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<td>Our commissioning experts oversee factory and on-site commissioning to ensure minimum disruption and the highest levels quality and safety</td>
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<tr>
<td><strong>MAINTENANCE AND UPGRADES</strong></td>
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<tr>
<td>Our customers are our first priority. We will ensure that the best service and products are available and are delivered through our research &amp; development team and in-house UKAS laboratory</td>
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