

Powel Smart Metering Suite

Powel smart metering solutions deliver easy scalability, vendor independence, and an open architecture approach that simplifies integration with other systems in the metering value chain.



Powel Smart Metering solutions enable meter operation, open data collection and advanced meter data management for electricity, gas, heat, cooling and water.



Smart and interoperable metering

Powel smart metering solutions offer an enterprise-wide software platform that enables centralized or distributed meter data management with secure communication. Our solutions include all the capabilities utilities, metering companies, and other meter operators need to deploy large-scale smart metering with open data collection and advanced meter data management. Most important, our open platform solutions enable flexible integration.



A scalable, vendor-independent software platform for multiple meter types and mass data processing.



Proven solutions

Smart metering continues to gain momentum across the globe. It is increasingly becoming a critical building block of the utility of the future, because it will simultaneously improve competition and enhance utilities' ability to analyze consumption. Promising business cases and new regulations are leading the transition to a new smart metering infrastructure, to a large extent based on the success of similar efforts in Sweden — where Powel is market leader. Powel's core capability is software development, and we have a proven track record of implementing integrated and stand-alone smart metering systems for utilities worldwide. We use an open platform approach, enabling vendor-independent metering with virtually any type of device, be it a meter, a multi utility controller or a data concentrator.



powel



Making Smart Metering a Success

AN INTELLIGENT APPROACH TO SMART METERING

Proven scalability

Powel smart metering solutions are tested to work in networks that include more than one million meters.

Utility flexibility

We design our software to work well for virtually any utility, including electricity, heat, water, and gas.

Broad connectivity

Our solutions support all major network and communications protocols for AMI and smart metering.

Easy integration

Using XML messaging framework and web services, our solutions enable open integration to a wide range of third-party applications.

Hands-on experience

Powel is one of the most experienced players within the Smart Metering business with more than 10 years success from large-scale implementation projects.

Monitor Critical Business Processes

Powel smart metering solutions help electrical, heat, gas, and water utilities handle meter data and related business processes with high efficiency and productivity. Our software provides an information-rich overview of meter data, which enables utilities to establish tight control and process monitoring — including collection, validation, management, storage, analysis, reporting, and exchange. This significantly reduces costs — a critical factor in volatile, price-sensitive markets. It also improves the quality of data management and helps minimize manual interaction.

New Dimensions for Decision-Making

Smart metering offers much more than a new way to collect data. It provides a unique way to capture an unprecedented level of detail about how and when consumers use electricity, heat, gas, and water — an important step towards Smart Grid. With Powel smart metering solutions, utilities can collect this data and analyze it effectively to predict demand with greater precision, adjust capacity to accommodate peak demand periods, detect outages and outage precursors, and make better decisions about existing assets.

Lower Integration Costs

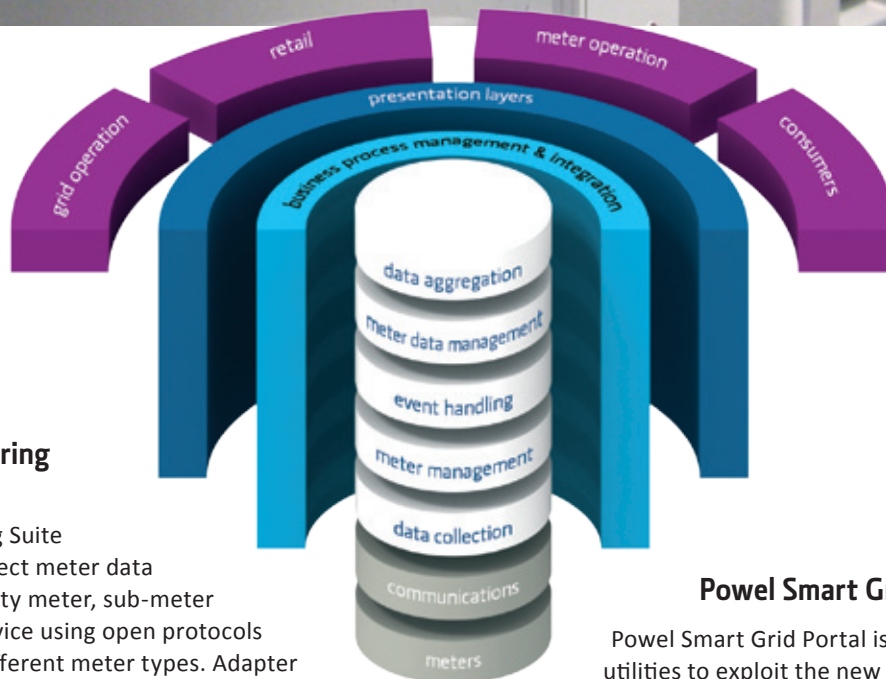
Powel smart metering solutions are built as an open platform. They integrate easily with a wide range of third-party systems for billing, SCADA, settlement, and customer switching to create an effective, reliable meter value chain. Powel software maximizes the flexibility for meter operation, data collection and meter data management through open platforms and standards.

Delivering Value Through Partners

Powel teams up with the best telecommunications and strategic consulting organizations to deploy smart metering solutions. In addition, Powel's online and direct call support services, offered through its subsidiaries and distributors worldwide, provide ongoing software services and support.



Powel Smart Metering Suite utilizes a service oriented architecture (SOA) as a means of providing utilities with strategic flexibility and low cost of ownership through integrating legacy applications. In addition, Powel's role-based interface ensures operational efficiency at all levels in the organization.



Powel Smart Metering Solutions

Powel Smart Metering Suite can automatically collect meter data from virtually any utility meter, sub-meter or communication device using open protocols from more than 30 different meter types. Adapter modules for electricity, heat, water, and gas accommodate the wide variety of protocols available industry-wide, enabling utilities to operate and manage their heterogeneous metering network with one single system. New protocols can be developed quickly due to the system's flexible and expandable architecture. Supported communication technologies include PSTN, LAN/ WAN, GSM, TCP/IP, M-bus, mesh radio, GPRS, PLC and others. Infrastructure can be point-to-point, concentrator based, or mesh network.

Real time validation of collected data, estimation, analysis, balance reports, and export of data for billing are out of the box available functionalities. Powel Smart Metering Suite is specifically designed to handle large-scale deployments and provides utilities with the accuracy, flexibility and scalability needed for their smart metering programs. Web services to SAP MDUS are foreseen for easy integration to SAP's billing platform.

New smart grid functionality can easily be configured allowing utilities to manage strategic and regulatory issues today – and in the future. Integrated business process management tools provide the agility and control utilities need to make full use of new technical and commercial possibilities.

The software runs in a Web client configuration based on a communication server and an Oracle database platform. To enhance security, role-based access rights can be set for individual users and user groups.

Powel Smart Grid Portal

Powel Smart Grid Portal is designed for energy utilities to exploit the new functionality and wealth of information available within energy meters, whilst still keeping control. The portal makes it possible to monitor and analyze various types of collected data and allows utilities to utilize and access all the information available from the meter. This gives them new opportunities to provide improved service levels to their customers and allows customer service representatives to see up-to-date information of consumption and an instant snapshot profile of every customer that contacts them. With this information at their fingertips, customers will receive real-time information, proactive communications, and service interruptions can be resolved more efficiently and quickly.

“Powel's Smart Grid Portal represents a truly innovative approach to providing important operational and customer information.”

Pål Selnæs, Marketing Manager for Metor AS.

Customer Portal

Powel Customer Portal helps your customers to learn more about their energy usage and costs and will improve your operational performance. In combination with variable rates it may reduce peak loads. Customer engagement and satisfaction will increase while the number of calls and complaints will decrease.

Quick start to smart metering is as easy as 1-2-3

Powel is offering a quick start program to pilot your smart metering project

- Leverage years experience from large scale implementations
- Learn how to achieve 99,6 % data collection rate in 24 hrs in the Nordics.
- Build a plan for next steps after installation of your smart metering infrastructure
- Experience using up to three predefined meter types
- Utilize VPN network from Vodafone or Telenor

Step 1

A two day workshop with your team of experts and our specialists to discuss your specific smart metering program needs.

Having supplied smart metering solutions to among others Vattenfall, E.ON Sweden, Fortum and major regional utilities in Scandinavia, Powel is the leading supplier in its field on the advanced Nordic market. We have faced many challenges and together with our customers to and have helped solve many the complexities related to secure and reliable meter management and data collection. You can benefit from this experience and continue building your own expertise as the opportunities from smart metering become apparent to your organization. Powel software solution supports communication from a wide variety of technologies and suppliers including GSM, GPRS, ZigBee, Radio, PLC etc. Learn which communication platforms fit best for your organization.

You will be given a detailed demonstration of the Powel software that will manage your meter network. Offering multi-utility metering electricity, gas, water and heat meters, Powel ELIN provide a scalable and flexible vendor-independent data collection and Meter Data Management solution. During the workshop we will demonstrate the functionalities of Powel ELIN as

well as Powel's Customer Portal, which can be used to keep your customers informed and engaged during your pilot program.

Step 2

Install up to 500 metering points.

During the installation of the pre-defined smart meters for your pilot program, Powel will ensure that each metering point is correctly configured within the Powel ELIN data collection software.

You will receive access to Powel ELIN through a secure Web portal where you can manage, monitor and collection data, as well as manage any events and meter configurations that are required.

Step 3

Your Pilot program will run for 6 months during which time you can collect data and learn from events and errors so that you will be prepared as your enter a rollout phase.

For more information and pricing details contact a Powel sales representative.

Our experts



Enno Dreier

As project manager for Powel's largest deliveries of Powel ELIN to the Swedish market, Enno has expertise and a deep understanding of the challenges that utilities face in a changing smart metering market.



Lars Lindström

Lars has been Product Manager for Powel ELIN since the product was launched in 2002. He has extensive knowledge about meter equipment, communication technologies and a deep understanding of the meter to cash value chain.



Kalle Johansson

Kalle is actively working as Release and Deployment Manager for Powel ELIN products in the Swedish market. His extensive experience of rollout projects and integration expertise to customer legacy systems ensure smooth implementations.



Kent Selander

Kent has successfully delivered metering and network solutions to Nordic customers. With over 14 years experience at Göteborg Energi, Kent understands processes (MDM/AMI), both as a software developer and as a product/project manager.



Matthias Hallernäs

Matthias is an experienced, customer focused project manager. In the last four years he has delivered Powel ELIN solutions, market expertise, and customer service to Powel customers. He has driven traditional IT-projects including customer portals and web-based solutions.

About Powel

Powel offers the energy industry's most comprehensive portfolio of decision support solutions. Smarter decision-making delivers immediate improvements in cost control, operational efficiency, and customer service. It is a catalyst for strategic flexibility — enabling utilities and municipalities to anticipate and respond quickly to changes in technology, the economy, the environment, and industry regulation.



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