Take control of your water future.

Siemens Smart Grid
Siemens Smart Water Platform

Siemens Smart Water Platform is a proven, scalable and rapidly-deployed application platform that bridges the gap between IT and Operations, empowering water utilities to take control of rapidly-growing smart grid data volumes by quickly converting data into actionable information.
Solve your water challenges with a proven solution.

Decades old and not designed to accommodate ever-increasing demand, today’s aging water infrastructure would require approximately $1 trillion in improvements to meet current design standards.* The infeasibility of expertise-wide renewal has led many municipalities to plug gaps with short-term solutions that disproportionately reduce risk and substantially increase expense.

Many of today’s utilities feel compelled to prioritize investments in increased water supply and leak detection over investments in metering solutions that help reduce demand. This results in further strain on infrastructure and increased rates for customers. On the opposite side of the spectrum, customer conservation efforts leave some utilities with no choice but to increase rates to maintain revenue. And with approximately 20 percent of operating costs directly attributed to water pump electricity, finding ways to conserve energy is as critical as balancing supply and demand.

Siemens Smart Water Platform provides a proven, reliable and cost-effective solution to help you start solving your water challenges today and across your network over the long term. Developed, installed and supported by Siemens, a metering innovation leader, the Smart Water Platform combines EnergyIP Core Platform functionality with integration and an ever-growing portfolio of customizable apps. The platform seamlessly integrates with your new or existing metering system, providing actionable data to help address issues before they become problems, providing new ways to engage customers and strengthen relationships, and most importantly allowing you to generate a more predictable revenue stream.

Aging infrastructure would require approximately $1 trillion to meet current design standards.*

Operating Costs

20% is directly attributed to water pump electricity.

Address Critical Infrastructure Needs

Provide your customers with infrastructure improvements they demand and the lowest possible water rates with a proven application platform that allows you to operate more efficiently and save money long-term. Using accurate, real-time data, Siemens can help you identify vital repairs associated with your aging and leaking infrastructure. The technology works wirelessly, allowing you to detect issues from anywhere on the grid, even the difficult to reach meters.

As extreme weather patterns associated with climate change lead to extended periods of drought or flooding, implementing a more efficient means of managing your water supply becomes critical. Siemens Smart Water Platform’s reliable inflow and outflow tracking improves visibility of usage and areas for improvement across your entire system, enabling you to quickly and easily make recommended adjustments and ensure you continue to meet dynamic regulatory requirements.
Maximize Operational Efficiency

Generate real-time, actionable data that simplifies decision-making across your entire enterprise. The Smart Water Platform serves as a repository for all instrumentation on your distribution network, automatically collecting data from the meters, then analyzing, interpreting and centralizing it to make it all easier to understand.

Available through our secure cloud-based platform, or as an on-premise software solution, the platform allows you to handle large volumes of data accurately and efficiently, eliminating the added cost, delay and potential errors of traditional "sneaker" metering. Perform precise readings, multiple times per day rather than once a month. Analyze and quantify the benefits of future investments such as infrastructure upgrades and meter replacement. Generate informative bills and usage statements, and engage your customers with automated conservation programs. Siemens helps you do it all faster, and with greater accuracy than ever before.
Create a More Predictable Revenue Stream

Avoid costly project overruns and realize substantial savings over time with technology that helps keep your operation on track and makes it easier to adapt to the dynamic regulatory landscape.

Designed, tested and proven to help water utilities operate more efficiently and effectively, Siemens makes it easy to identify the most costly leaks and meter errors so you can make smarter operational decisions and more targeted capital investments.

Our ever-increasing portfolio of pre-packaged apps and reports makes it easy to manage equipment loads, detect fraud and water theft, analyze customer water consumption and service outages.
“The Siemens Smart Water Platform is designed to work with any legacy system already in place and leverages state of the art technologies that increase performance with a lower cost to scale.”

Simplify Implementation

Siemens has the most experienced teams in the business that work closely with in-house IT departments to reduce the complexity of integration. The Smart Water Platform is designed to work with any legacy system already in place and leverages state of the art technologies that increase performance with a lower cost to scale.

Leveraging Siemens’ vast experience with utilities and Smart Water Metering, we recommend a phased approach to MDM implementation, allowing the utility to progress and expand the footprint when or as needed.

Phase 1 – Enablement
- Streamline AMI Deployment
- Verify and Monitor AMI Meters
- Ensure Data Accuracy for All Users
- Automate Exception Management
- Simplify Meter-to-Cash

Phase 2 – Optimization
- Business Process Automation
- Automated Move-In/Out
- Reduce Revenue Loss
- Enable New Customer Services
- Improve Water Network Operations

Once up and running, Siemens Smart Water Platform allows you to:
- Add applications as your business requires
- Utilize open API’s for 3rd party app development
- Leverage integration with AMI and business applications
- Quickly respond to future needs
Collecting data is one thing. Converting into actionable strategies is another. As a leader in Smart Grid Analytics research, Siemens brings over a decade of experience to your utility's platform—more than any other solutions provider. With over 53 customers worldwide representing 72 million meters, the Siemens Smart Water Platform is proven to be the industry’s most comprehensive portfolio of grid technology that can extend the benefits of an AMI business transformation across the organization.

Using next generation analytics, we build and offer applications that convert large volumes of data into strategies that not only help you operate more efficiently, but also help you develop initiatives to strengthen customers relationships.

Ready to make the move to the efficiency of the Cloud? Our hosted Cloud service offering can minimize initial investment while leveraging our deep technical expertise and proactive support to deliver long term value, while minimizing delivery and operations risk.
Case Studies

See the Siemens Smart Water Platform in action and learn how Siemens is already helping dozens of utility companies meet their biggest challenges. 
Click on a case study for more details.
Burbank, California, is a forward-thinking media and entertainment-oriented city that requires 21st century infrastructure and technology. Home to three major movie production studios, Burbank is a high-tech city by nature and very dependent on consistent, high-quality electric and water delivery. Burbank Water and Power (BWP) provides 45,000 residences and 6,000 businesses with water and electricity. Since 1913 it has been entrusted to deliver safe, reliable and affordable public services to Burbank’s citizens and business owners. In 2008, the mid-sized, community-owned utility embarked on a comprehensive Smart Grid initiative. The grid’s foundation, a meter data management system (MDMS) with robust meter-to-cash capabilities, was chosen and implemented with expertise from Siemens.
JEA

JEA is the eighth-largest community-owned electric and water utility in America, currently serving more than 417,000 electric and 305,000 water meters in Jacksonville, FL and parts of three adjacent counties. JEA sought to increase the level of benefits it was realizing from the implementation of its Advanced Metering Infrastructure (AMI) network and following an extensive business case development process, JEA decided to implement EnergyIP to support its electric and water meters. The implementation included a centralized usage data repository; equipment, asset and administrative data storage; and automated data, asset, and service management processes and tools to enable utility business process improvements. EnergyIP is integrated with JEA’s existing legacy CIS, mobile WMS, OMS, GIS, asset management, and distribution planning systems.
Fort Collins

City of Fort Collins Utilities is a municipal electric and water utility serving over 65,000 homes and businesses in Colorado. It operates and maintains the electric system facilities which are nearly all underground. In addition, it installs and maintains the city's streetlight system.

Through the Advanced Meter Fort Collins Project, Fort Collins Utilities upgraded its old mechanical, electric and water meters in homes, schools, and businesses throughout the community with electronic devices enabling two-way digital communication between the meter and the utility. The upgraded infrastructure has allowed the City of Fort Collins to provide more timely customer service solutions, use information to maintain high system reliability, and make utility operations even more cost-effective. The project is funded through the Department of Energy (DOE).

For additional details on the City of Fort Collins please check out the Fort Collins Experience Center.
Resources

Looking for more information about the Siemens Smart Water Platform? Access webinars, download white papers and learn about the Siemens leadership team here.
While energy has recently gotten a lot of attention, water remains our most essential commodity. Faced with a growing concern of long-term water supply sustainability, many utilities are looking to advanced metering systems to improve their conservation, loss reduction, and operation efficiency.

Larsh Johnson, CTO of Siemens Smart Grid Services explores meter data management (MDM) technologies, applications, opportunities, and challenges, as well as how to implement meter data management systems in utilities.

In his webinar, he introduces Meter Data Management Systems (MDMS) as an application platform for expediting advanced metering in a water distribution utility. Through discussion of use cases and applications, we focus on the functionality of MDMS, the integration of multiple systems, and the tools to exploit the deluge of data to benefit your utility.

Using high level solution architecture, he defines the role of MDMS and highlights the key information exchanges to manage the implementation phase and optimize your results. Additionally, we discuss the different systems that integrate with advanced metering systems (e.g., AMI systems, AMR systems, SCADA, etc.), their roles within an integrated systems, the principles of interoperability between these systems, and the associated data exchanges. Within this discussion, we explore both real-time and batch processes, as well as the options for implementation.
Magic Quadrant for Meter Data Management Products

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VIEW SUMMARY

Selecting the right technology partner in a rapidly maturing MDM market continues to be a challenge for buyers of smart metering solutions. To help clients understand vendors’ capabilities and MDM deployment risks, we provide an update of vendors’ product positioning in this emerging market.

Market Definition/Description

Gartner bases the concept of a Magic Quadrant on a customer-oriented market analysis. Consistent with the approach espoused by Geoffrey Moore, noted business author of “Crossing the Chasm,” a market is “a set of actual or potential customers for a given set of products or services who have a common set of needs or wants, and who reference each other when making a decision.”

The market segment considered for this Magic Quadrant consists of utility companies seeking software solutions for managing metered consumption data, which can be used across the enterprise and shared with customers, partners, market operators and regulators. For the purpose of this Magic Quadrant assessment, meter data management (MDM) products are IT components of the advanced metering infrastructure (AMI) responsible for cleansing, calculating and providing data persistently, as well as for the dissemination of metered consumption data, which can originate from a variety of sources. However, as we discuss in the Context section of this research, in some instances, companies can justify MDM implementation, even if they do not have or do not plan to implement AMI. MDM can contain a subset of meter asset information, or even some premises or customer information. However, the key metrics being tracked deal with consumption and meter-related events, regardless of what data collection device is used. Although implementations may vary, here are the key functions that MDM should support:

- Data collection (input from headend devices)
- Command management (such as remote connect/disconnect)
- Valuating, editing and estimating (VEE) meter reads
- Exception management
- Event management (such as “lost gap” outage notification)
- Estimating invalid or missing reads
- Profiling scalar meter reads
- Billing determination calculation
- Aggregating meter reads
- Tracking meter inventory (but not managing the online meter asset management life cycle)

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