

Water



Management Suite

Comprehensive Water Supply Network Control



Make the most of your energySM

Schneider
 **Electric**TM

Water Management Suite

Traditionally, the operations and maintenance objectives for water utility automation systems have been based, primarily, on measurable quality and quantity criteria that reflect operational efficiency and effectiveness. More recently, systems security has been elevated as a primary concern for these high-profile operations.

Adding to the complexity of water systems operation are the increasing demands on existing water supply, environmental concerns, and increased corporate responsibility and fiscal accountability.

Schneider Electric WMS offers comprehensive advantages

To meet this challenge, Schneider Electric makes available its Water Management Suite (WMS) of dedicated applications to monitor and optimize the complete water supply system – from the source, through storage, treatment, and distribution, to the tap. Utilities use it to bridge operational activities and enterprise processes, to better manage:

- Water loss and related costs, through advanced leak detection techniques and water balance construction tools
- Energy consumption and efficiency, by optimizing pumping station equipment operation
- Supply requirements, based on real-time data, statistical analysis of consumption, and weather forecasts
- Water quality and regulatory compliance, possible with real-time information available for precise control
- Data accuracy and availability, with automated data collection, storage, and seamless interface with business systems such as the Maintenance Management System (MMS), Laboratory Information Management (LIM) system, and geographic information system (GIS)
- Emergency response, through intra-utility data transfer and inter-utility emergency event reporting.

Investing in the Schneider Electric Water Management Suite positions your water network operation for long-term return:

- Proactive management of system operations, based on supply, demand, and resources
- Maximized functionality of existing assets, and minimized need for new infrastructure
- Improved product quality, service, and customer satisfaction.

Modular, standard design for targeted functionality, scalable implementation

The Schneider Electric WMS is a modular solution, allowing scalable and specific-function implementation. Regardless of the size of your utility, you deploy the functions you need, no more and no less.



Schneider Electric WMS applications integrate not only with the Schneider Electric OASyS SCADA system but also with third-party control systems and applications



Advanced applications for simulation and operational management, geared toward increasing efficiency, optimizing natural resources, and enhancing service quality

Built with industry-standard interfaces, the Schneider Electric WMS applications integrate not only with the Schneider Electric OASyS supervisory control and data acquisition (SCADA) system but also third-party control systems and applications. This approach helps you meet your specific needs and extend your system, and your investment in WMS, as needed.

Schneider Electric WMS operational and business tools

Energy Optimization. Utilizing this application, operators can monitor power consumption in each pumping station and in other energy-intensive equipment. Considering dynamic energy rates, the utility can optimize maintenance activities and scheduling that can maximize plant performance levels and reduce energy costs and CO2 emissions.

Demand Forecasting. This function allows operators to balance water production and demand, using weather forecasts and consumption trends, and generate total system send-out for the current and subsequent delivery days.

Leak Detection. This application, fed by real-time data from the SCADA system, identifies the presence of leaks in different areas of the network by using several methods: real-time mass/flow balance calculations; adaptable alarm management based on current network operations; minimum night flow periodic calculations; and automatic cross-check of real-time measured data against hydraulic simulated data.

Water Quality Management. This module allows operators to optimize the treatment process, particularly chemical dosage control, by using water quality parameters acquired in real time in key points of the distribution network. The application can produce customized reporting for regulatory compliance.

Because long-term commitments matter

At Schneider Electric, we are committed to best-in-class sustainability of the environment. We're committed to excellence in our solutions and to earning trust in our client relationships. When your customers and business partners are relying on you to keep the water clean and available, nothing is more important.

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