

Smart Water Networks: Stormwater Management

Minimizes the impact of storm events in cities and basins



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Schneider Electric's Smart Water Networks (SWN) is a comprehensive offering of independent yet interfacing modules, allowing the water utility to select and implement those needed for monitoring and managing its specific water supply, distribution and sewerage network demands. The new Stormwater Management module of Schneider Electric's SWN provides the utility – and the city – with reliable information for implementing the fast response to rapidly developing storms that can save lives and property.

Accurate forecasts based on real-time information and modeling

The Stormwater Management module integrates Schneider Electric's industry-leading weather forecasts and advanced hydraulic modeling tools and real-time sewer system metrics to calculate runoff flow through the urban drainage system and accurately predict flooding locations, extent and severity. It makes this information available across the utility enterprise and related city functionalities through a high-resolution display.

This fine-tuned integration of weather forecasts, overflow analysis and graphical display enables the water utility and city to effectively plan for and respond to the impacts of severe rainfall events, particularly when they occur in urban areas with limited drainage capacity.

- Accurate and customized weather forecasts – specific precipitation information for the local area
- Powerful simulation of drainage – based on modeling engines reflecting both the hydrological characterization of the land phase – or catchment area – and the hydraulic components of the piping system, to accurately determine areas and extent of likely flooding
- Identification of sewage network impact – including flooding and combined sewer overflow (CSO) locations and severity, along with affected sewer surcharge (pressurized-pipe) locations
- Decision support tools – including Google Maps-based display, CSO risk estimation and statistics
- English and Spanish interface – and configurable alarming
- Alerts to mobile devices – making information readily available to all involved processes

Better alerting and decision making; more effective response

Each municipality and city needs to implement its own individual strategy – based

on its unique infrastructure and topography – to mitigate street flooding, optimize wastewater treatment plant operations, and reduce CSOs. The Schneider Electric Stormwater Management solution combines up-to-date weather forecasts, predictive modeling and detailed map display to allow operators and managers to implement the most effective strategy for emergency conditions associated with severe storm events. Cities that are prone to flooding problems will find this advanced solution invaluable in reducing the economic impacts of flooding and improving safety in the city environment.

- Provides consistent information to all decision makers, in a single, easy-to-use interface
- Reduces the time needed to implement appropriate action and, thereby, optimize safety of residents
- Minimizes CSOs and associated environmental impact, severe health risks and penalty-related costs

An industry-leading solution

The Schneider Electric Stormwater Management solution is singular in its design and functionality in large part because of the accuracy and reliability of the weather forecast information used. The proprietary MxVision WeatherSentry Online® weather information service inherent in the solution has been independently rated as the most accurate precipitation forecast in the industry for the past five years.

The solution also reflects Schneider Electric's vast experience in comprehensive network information management, combining field measurement collection; data communication; and secure, centralized SCADA database management. This centralized solution is designed to be scalable and flexible, to support your wastewater network as it changes or expands.

Finally, because it is built on an Open Interfaces Platform (OIP), the Stormwater Management application seamlessly interfaces with the city's standardized Integrated City Management (ICM) information platform – making information available to Traffic, Security, Emergency Services and CMMS platforms. As a result, both the utility and city benefit from reliable information that improves efficiency across agencies and reduces costs; optimizes public safety; streamlines asset protection and maintenance; and supports the Smart City initiative.

Contact us to learn more about the Schneider Electric Stormwater Management solution and the Smart Water Solutions of dedicated applications that automate processes and improve operational efficiency of your entire water supply and wastewater systems.

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