5 Benefits of Smart Water Management

How Digi is taking bold steps to modernize aging water networks

According to the U.S. Environmental Protection Agency, the average water district loses 16 percent of its water to leaks in its system — and 75 percent of that loss is recoverable.[1] Today, artificial intelligence, IoT sensors, and big data continue to improve aging water district systems. From remote monitors and controls, to improved data, optimized processes, and cost-saving efforts to get more life out of legacy equipment, municipalities are turning to technology to keep today's water management systems viable. There are 5 key ways in which this technology can make a difference in your operations.

1 Better Data = Prompt Decision-Making

Gone are the days of manual water collection data. Today, automated systems are built on a network of data-collection devices — providing fast access to real-time information that allows managers to make prompt decisions. With the right monitoring system, managers can see and react to leaks in minutes.

2 Cleaner Water

Sensor data can improve water quality by measuring pH, biochemical oxygen demand (BOD), total suspended solids (TSS), chemical oxygen demand (COD), and nutrient compounds — and anything else a sensor can measure.

3 Lower Water Usage

Consumption monitoring has proven to lower usage of water resources, reducing costs and optimizing the use of finite resources.

4 Automated Distribution Systems

With the right environmental sensors and predefined algorithms, managers can dynamically regulate and control the supply of water. Beyond prompt decision-making, the right automation controller can allow data monitoring to be leveraged to further decrease reaction time to an event.

5 Reduced Stress on Aging Infrastructure

By monitoring the pressure of water supply networks, municipalities can adjust for over-pressurization during times of low demand, and under-pressurization during times of peak demand.

[1] www.epa.gov/sites/production/files/2015-04/documents/epa816f13002.pdf

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