



OSIsoft
Clean Technology
United States

Reducing costs, energy and environmental impact

For the last 26 years, OSIsoft has helped companies in energy, utilities, manufacturing, and life science to monitor their operations and processes in real-time. Using the OSIsoft PI System (Plant Information System), companies can pull data from enterprise resource planning, geographic information system and other line of business applications. The PI System then acts as a central data store through which they can analyze the data and identify any changes that are needed to keep their operations running efficiently.

One of the key markets for OSIsoft PI System software is the water utility market. Most water utilities have numerous processes that they must monitor related to the treatment, desalination and distribution of water and waste water. A growing number of such utilities worldwide are using the PI System to monitor water quality and consumption in real time, and to modify their pumping strategies to run more efficiently.

For example, if turbidity or salt-levels get too high, the water utility can reroute water or shut down the desalination process until it returns to acceptable levels. Completing all these processes and distributing the water is a significant drain on the power grid. One-third of the cost of water and waste water treatment is from the consumption of energy.

One of OSIsoft's customers is the Halifax Regional Water Commission (HRWC), the first regulated water, wastewater and stormwater utility in Canada. HRWC is a fully-metered utility that provides drinking water to about 325,000 residents of Halifax Regional Municipality (HRM) through a 1300 km (more than 1000 miles) pipe network. The PI System enables HRWC to collect, analyze and disseminate data from more than 120 meters across their treatment and distribution facilities. With this information they can then determine the period of a leak, the amount of leakage and narrow the location to a specific district-metered area. Consequently, the PI System has been a key contributor to HRWC's daily reduction in leakage of almost nine million gallons of potable water. This reduction translates to a savings of more than \$550,000 per year.

"In areas such as the Middle East and Australia, energy and water go hand-in-hand – especially when desalination is required to treat water for human consumption," says Gary Wong, Gobar Water Industry Executive for OSIsoft, who helps to educate water and waste water utilities about how to effectively manage the entire water cycle. "Even so, utilities must operate in an economic, social and environmentally sustainable manner. Solutions such as the PI System are helping water utilities to reach that level of sustainability."

For more information, please visit www.microsoft.com/isv