

Remote Water Management

RESULTS

- Reduced operating expenses and lower equipment maintenance costs
- Now regulates the flow rate through data insights
- Real-time monitoring of upstream and downstream system pressures
- Easy access to data anytime, anywhere with Zedi Go the mobile app



APPLICATION

Emerson's Zedi Cloud SCADA
Emerson Hardware
Emerson Zedi Access
Emerson Zedi Go

CUSTOMER

Water Utility Company based in Alberta, Canada.

CHALLENGE

Rural water utility company uses valve stations to control water that flows through their county. The company was having trouble regulating flow rate downstream, which in turn was affecting equipment and assets downstream.

To properly regulate flow, the flow rate needed to be monitored and adjusted to the desired flow rate safe for equipment operation, leading to reduced cost from fewer equipment breakdowns and downtime.

Their overall objective was to find a cost-effective solution that allows the water utility company to regulate the flow rate through insightful data to manage valve stations.

Providing our Customers diversified solutions is important at Emerson; We drive innovation that makes the world healthier, safer, smarter and more sustainable.

“Emerson’s Zedi Cloud Platform and hardware solutions has gained our personnel the real-time process data for operational insight that has helped us improve on safety and efficiencies with accurate, and fast flow rate data.”

Water Utility Company based in Alberta, Canada.
- Chief of Operations

SOLUTION

Failed past solutions had been proven ineffective. With limited room to install the equipment, the customer required a solution that was not too invasive for operations. Our team was able to design and implement a cost-effective, state-of-the-art solution.

Our solution included the following:

Hardware:

- Valve Positioner
Retrofitting the valve stations with valve positioners which deliver pressurized air to the valve actuator so that the position of the valve stem or shaft corresponds to setpoints from the control system.
- Field Gateway 600
For cellular telemetry and the onboard I/Os to monitor:
 - Upstream pressure
 - Downstream pressure
 - Valve position

Platform Solution:

- Near real-time monitoring of pressure sensors and valve positions
- Cloud-derived flow rate uses a flow algorithm to enable the client to monitor and control valve stations via Zedi Access web interface
- Mobility for anytime, anywhere access to data through Emerson's Zedi Go mobile app

With our cost-effective custom solution, the customer has been able to decrease equipment downtime and associated costs, and optimize water flow through valve stations.



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