

Overview

City Name	Project Name	Tech Area	Budget for Solution	City Point of Contact
Jamestown	Advanced Remote Water Meter Monitoring	Real-Time Utility Monitoring	\$200,000	Craig Garaas-Johnson, cgjohnson@jamestownbpu.com

Project Briefs

Project 1: Advanced Remote Water Meter Monitoring

- **Project Scope. Please provide project narrative. Outline the problem that needs a solution and include high level timeline and end product. Be clear and succinct.**

Jamestown intends to enhance its utility metering infrastructure system wide. Our goal is to replace all of the water meters system-wide; though the scope of this project is focused on a smaller portion of the system to prove that the system is as effective and helpful as it is expected to be. The meters will provide numerous benefits to the community including a reduction in CO2 emissions (due to reducing the need to drive around the community reading meters), water leak detection, water demand forecasting, enhanced awareness campaigns, promotion of efficient appliances, and system performance. These advanced meters can provide residents with many benefits including a potential reduction of waste by identifying leaks and making residents aware of consumption patterns, bill management, budgeting, and overall engagement. We will start the project in January of 2021 and will have the meters installed and operational in the test area by the end of 2021. Customers in the project area will have access to more up to date information in their portal shortly after their meter is replaced.

- **Ideal Technology Solution**

The City of Jamestown is looking to leverage hardware and software technology to enable real time water meter monitoring. The hardware component would be incorporated into our existing infrastructure and should be a one-one replacement for existing water meters. The devices should be capable of communicating efficiently and reliably through the Itron Open Way Riva platform back to the utility and should have the ability to last at least twenty years without maintenance. This technology must be able to withstand environmental factors experienced in basements including moisture and dirt. The software solution must enable remote meter readings and other measurements on cycles as well as on demand. The solution should alert the utility to potential problems in the network. It should alert utility personnel to potential leaks or unaccounted for water flow. The system should be robust and extremely reliable. It should not cause interference on any other wireless system. The meters should be quick and simple to install and setup.

- **Required Cybersecurity and Privacy Standards**

Any technology solution must align with the City of Jamestown's cybersecurity and privacy policies. Due to the sensitive and secure nature of our cybersecurity policy this is not made available to the public; a copy may be emailed upon request.

Smart Cities Testbed Project Brief

- **Project Funding: \$200,000**

We expect the project to cost approximately \$587,000 over a 1-year timeframe. The Jamestown BPU is able to commit \$353,000 to the project. The City of Jamestown is looking for contribution from the relevant technology company either through in-kind services or cash to enable more metering installs and a wider system impact. The ESD grant is roughly \$200,000.

- **Other Considerations & Helpful Information**

The utility uses Cogsdale as its billing system platform and SpryPoint for its user portal. It will require integration with these systems.