How IIoT Technology and The Infrastructure Investment and Jobs Act (IIJA) Can Help Improve Water Infrastructure

The Infrastructure Investment and Jobs Act

Industrial Technology Trends

A Secure Process Intelligence Publication

What is IIoT Technology? Applied to Water Infrastructure, here at SPI we think of it as "Remote SCADA Connectivity Without SCADA Infrastructure". **In simple terms, it allows you to see what's going on with your assets, in real-time, from the comfort of your office or remote workstation**. This link **here** gives some more helpful information.

The Infrastructure Investment and Jobs Act (IIJA) provides $43.426 billion for drinking water infrastructure. This is the single largest investment in drinking water in the history of the United States. This funding will help to ensure that all Americans have access to safe and clean drinking water.

How IIoT Technology and The Infrastructure Investment and Jobs Act (IIJA) Can Help Improve Water Infrastructure

IIoT technology, or the Industrial Internet of Things, can help to enable the implementation of the IIJA appropriations for drinking water in a number of ways. For example, IIoT sensors can be used to monitor water quality in real time. This can help to identify problems early on, such as the presence of contaminants or leaks, and prevent them from becoming worse. IIoT devices can also be used to remotely monitor and manage drinking water treatment plants. This can help to improve efficiency and reduce costs by ensuring that plants are operating at optimal levels.

In addition, IIoT technology can be used to track the location of assets, such as water pipes. This can help to prevent leaks and improve water conservation by identifying areas where leaks are most likely to occur. Overall, IIoT technology can help to improve the safety, reliability, and efficiency of drinking water infrastructure.

IIoT technology has the potential to revolutionize the way we manage drinking water infrastructure. By using IIoT sensors, devices, and data, we can improve the safety, reliability, and efficiency of our drinking water supply. This will help to ensure that all Americans have access to safe and clean drinking water for generations to come.

Specific examples of how IIoT is helping to improve drinking water infrastructure

- **Flint, Michigan**: IIoT sensors are being used to monitor the presence of **lead**, and ensure that residents have access to safe drinking water.

- **NYC:** IIoT devices are being used to manage the water treatment plants, thereby improving efficiency and reducing costs.

- **California:** IIoT technology is being used to track the location of water pipes. This has helped to prevent leaks and improve water conservation by identifying areas where leaks are most likely to occur.

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