

# TAKE CONTROL OF YOUR WATER & WASTEWATER OPERATIONS WITH



- Modernize legacy systems to improve reliability and reduce downtime
- Standardize workflows and automate alarm escalation to improve response
- Centralize monitoring and control across distributed water systems
- Unify operational and contextual data for real-time visibility
- Detect issues faster and reduce risk with intelligent alerting

# CHALLENGES FACING WATER & WASTEWATER SYSTEMS

Aging infrastructure and legacy systems are increasing pressure across water and wastewater operations. Fragmented data, workforce gaps, and disconnected processes limit coordination and make reliable performance difficult to sustain.

Limited real-time visibility and lack of system integration delay response and increase risk. Utilities must also meet tighter regulatory requirements, manage rising energy costs, and maintain uninterrupted service across complex networks.

## KEY OPERATIONAL CHALLENGES

### Aging infrastructure drives reactive maintenance

Legacy systems increase unplanned downtime and reduce reliability.

### Fragmented systems limit coordination

Disconnected platforms create inconsistent data and delay decisions.

### Lack of centralized monitoring slows response

Distributed assets reduce awareness and delay issue detection.

### Rising energy costs impact efficiency

Limited performance insight makes optimization difficult.

### Workforce gaps reduce consistency

Loss of expertise increases reliance on manual processes and slows response.

### Regulatory pressure increases complexity

Manual data collection increases workload and compliance risk.



## COMPOUNDING OPERATIONAL IMPACT

- Delayed issue detection increases risk of failure
- Inconsistent data reduces confidence in decisions
- Compliance and reporting become more complex
- Limited visibility restricts energy optimization
- Reactive operations reduce overall efficiency

## STEPS TO IMPROVE WATER & WASTEWATER OPERATIONS

- 1 Replace legacy systems to support modern requirements
- 2 Establish centralized visibility across operations
- 3 Integrate operational, environmental, and contextual data
- 4 Standardize workflows to improve consistency
- 5 Enable real-time monitoring, alerting, and notification
- 6 Enable decision support to reduce manual intervention

A modern approach requires a unified platform that connects systems, data, and operations within a single environment.

## TRANSFORM WATER OPERATIONS WITH GENESIS

GENESIS by Mitsubishi Electric Iconics Digital Solutions provides real-time data acquisition, monitoring, control, and data management across water and wastewater operations.

A data-centric architecture unifies operational and contextual data, while an integrated historian captures and analyzes high-resolution data to support visibility, alarm management, reporting, and performance analysis. The platform integrates easily with enterprise systems, including CMMS, modeling, and asset management systems, and enables scalable, low-code configuration.

GENESIS unifies monitoring, data management, and operational intelligence within a single platform, enabling faster decisions, improved control, and more efficient operations.



### KEY CAPABILITIES

#### Centralize monitoring and control

Consolidate data from SCADA, telemetry, and field devices.

#### Unify data with integrated historian

Capture and store high-resolution data for analysis and reporting.

#### Enable real-time visibility

Detect issues faster and improve system awareness.

#### Standardize workflows and enable alarm escalation

Reduce manual processes and improve response.

#### Simplify compliance and reporting

Ensure accurate, validated data for regulatory requirements.

#### Extend access with browser-based and mobile tools

Enable monitoring and control beyond the control room.

#### Connect legacy and modern systems

Integrate infrastructure using open, standards-based connectivity.

#### Support analysis and future growth

Structure data for optimization and advanced analytics.

#### Secure, scalable architecture

Support long-term performance with flexible deployment and built-in security.

### REAL-WORLD APPLICATION:

## LAKE CITIES MUNICIPAL UTILITY AUTHORITY | TEXAS, USA

Lake Cities Municipal Utility Authority replaced an aging, fragmented system with a unified GENESIS platform that improved visibility, reduced false alarms, and enabled secure remote access.

#### Result highlights:

- Improved visibility across systems and assets
- Reduced false alarms and unnecessary call-outs
- Enabled real-time monitoring and control from the field
- Accelerated response times and decision-making
- Simplified operations with a unified system view



# BRING YOUR WATER OPERATIONS INTO THE FUTURE WITH CONFIDENCE

A connected, real-time approach improves visibility, strengthens operational control, and supports consistent performance across systems. GENESIS provides a scalable foundation to manage complexity, improve reliability, and enable data-driven operations.

[REQUEST A DEMO](#)

Download the Water & Wastewater brochure or speak with a specialist to evaluate your operations and define next steps.

## ABOUT MITSUBISHI ELECTRIC ICONICS DIGITAL SOLUTIONS

Mitsubishi Electric Iconics Digital Solutions, headquartered in Foxborough, Massachusetts, is a global leader in industrial automation, smart and sustainable buildings, and digitalization software. Our advanced HMI, SCADA, and Smart Building solutions enable businesses to visualize, monitor, and optimize their most critical assets and spaces. With installations in over 100 countries and adoption by more than 70% of Global 500 companies, we drive operational efficiency and continuous improvement across industrial manufacturing, infrastructure, and built environment sectors. Backed by cutting-edge technology and deep industry expertise, we deliver flexible, scalable, and high-performance software solutions. As a testament to our excellence, Mitsubishi Electric Iconics Digital Solutions has been recognized as a seven-time winner of the Microsoft Partner of the Year award.

### Mitsubishi Electric Iconics Digital Solutions Sales Offices

**World Headquarters**  
2 Hampshire Street  
Foxborough, MA, USA, 02035  
+1 508 543 8600  
info@iconics.com

<b>Australia</b> australia@iconics.com	<b>France</b> france@iconics.com	<b>Japan</b> japan@iconics.com	<b>Philippines</b> philippines@iconics.com	<b>UK</b> uk@iconics.com
<b>Brazil</b> brazil@iconics.com	<b>Germany</b> germany@iconics.com	<b>Malaysia</b> malaysia@iconics.com	<b>Singapore</b> singapore@iconics.com	<b>Vietnam</b> vietnam@iconics.com
<b>Canada</b> canada@iconics.com	<b>India</b> india@iconics.com	<b>Mexico</b> mexico@iconics.com	<b>South Korea</b> southkorea@iconics.com	
<b>China</b> china@iconics.com	<b>Indonesia</b> indonesia@iconics.com	<b>Middle East</b> middleeast@iconics.com	<b>Taiwan</b> taiwan@iconics.com	
<b>Czech Republic</b> czech@iconics.com	<b>Italy</b> italy@iconics.com	<b>Netherlands</b> holland@iconics.com	<b>Thailand</b> thailand@iconics.com	

## MITSUBISHI ELECTRIC ICONICS DIGITAL SOLUTIONS, INC.

HEAD OFFICE: 2 Hampshire Street, Suite 300, Foxborough, MA 02035