Revolutionizing Meter Data Management for Scalability
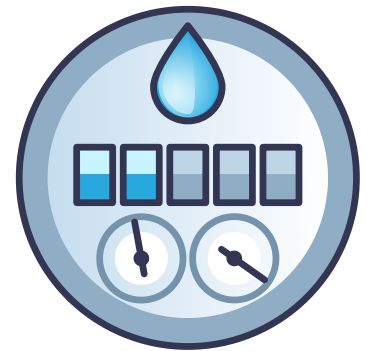
AT A GLANCE

Challenges
- Modernizing data systems
- Avoiding vendor lock-in
- Limited internal capacity
- Adopting big data tech

Methods
- Used PySpark & Databricks
- Built Angular dashboards
- Partnered on architecture
- Designed for Azure flexibility

OBJECTIVES

A global utility technology provider aimed to modernize its data infrastructure to support both existing and next-generation meter data systems. Their objectives included minimizing reliance on specific cloud vendors, expanding system scalability, and leveraging external expertise to ensure accelerated delivery, seamless integration, and future-ready architecture. These enhancements were critical to enabling efficient data processing, improving resilience, and allowing the system to adapt to the future growth of advanced metering infrastructure, analytics, and reporting.

SOLUTIONS

IntelliTect delivered scalable big data solutions using PySpark and Databricks, built intuitive Angular dashboards, and enhanced the client's development framework to streamline operations. The vendor-agnostic architecture was designed for long-term adaptability across diverse environments, ensuring continuity across cloud and on-premises deployments. This robust solution enabled efficient data ingestion, transformation, and visualization—providing a strong foundation for innovation and long-term success.

BENEFITS

Enhanced Scalability
Supports both current and future data needs.

Improved Flexibility
Vendor-agnostic design allows versatile deployment.

Streamlined Development
Framework upgrades reduce maintenance effort.