



Major energy company uses Fusion for data access and Time Series Insights

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Uptake Fusion helped a multinational energy company liberate its operational data from 40+ global sites. Centralized data in the cloud is optimized for Time Series Insights, Power BI, and Uptake AI products and services.

BACKGROUND

One of the world's leading integrated energy companies is engaged in every aspect of oil, natural gas, fuels, lubricants, renewable energy, as well as hydrocarbon exploration and production. Business units also produce petrochemicals used in industrial manufacturing. The company operates in more than 180 countries and ranks in the top 20 of the Fortune 500.

CHALLENGES

The energy company was experiencing several challenges in accelerating its digital transformation program. Chief among these was extracting data of any type from data historian applications like OSIsoft PI. Data drives decisions, but lack of data goes nowhere. Other significant challenges included egressing metadata models from current systems like PI-AF, encountering low latency for streaming data, and overcoming the common hurdles associated with transporting tags.

Advancing toward digital transformation demanded exploiting opportunities to scale, reuse, and share innovations across the company's global footprint. Key systems required integration for a digital twin to incorporate operational data. All application, machine learning, and reporting development must be in alignment with best practices.

SOLUTIONS

Uptake Fusion fundamentally changed how the company accesses and leverages its operational data. Fusion connectors automatically ferry data in real-time from more than 40 sites globally to a cloud-based historian. Uptake Lenses organizes the data and makes it accessible for different audiences. As a result, the company can fast-track and share innovations, as well as leverage digital twins and applications like machine learning.



APPLICATIONS

Digital transformation was the goal, but the timetable needed to be accelerated, especially with operational data across various regions. Uptake had the answer with Uptake Fusion.

Uptake's components that were implemented include:

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Uptake is an exemplary and critical partner. Their team is working with us to drive innovation and scalability to accelerate us to our goals in commoditizing surface time-series data for enterprise reuse by making it universally available, accessible, and useful.

Process Control Systems Engineer

Major Energy Company

Connectors

Provides data connectivity to different endpoints for historical, instantaneous, and metadata

Elevate™

Extracts data from on-premise operational systems and moves it to the cloud

Lenses™

Organizes data for use by different stakeholders. Provide access in an open format for visualization analytics, orchestration, and reporting data consumers.

Fusion connectors for data connectivity connected via open APIs and open data formats. Fusion liberated the company's industrial data while Elevate enabled source data's transfer to the cloud. Once in the cloud, Uptake Lenses organized and correlated the data for different stakeholders like company groups or other applications.

RESULTS

Egressing PI and PI-AF data from over 40 sites worldwide and moving the data to a central Uptake Fusion with Azure Time Series Insights deployment have equipped the company to make an impact across multiple areas and enterprise-wide, including:

- [Optimization and Fleet Benchmarking](#)
- [Stream Costs and Soft Sensors](#)
- [Failure Prediction and Root Cause Analysis](#)