



How an Energy Supply & Trading Organization Validated Microsoft Fabric for Scalable ETRM Analytics

Overview

The client is a U.S.-based energy supply and trading company that provides electricity supply, wholesale services, renewable energy products, and trading and risk management capabilities across U.S. energy markets. The organization combines energy supply and renewable offerings with sophisticated trading, hedging, and risk management capabilities for a diverse customer base.

Challenge

An energy supply and trading organization uses an Azure Synapse and Azure Data Lake Storage (ADLS) analytics environment to support operational reporting and analytics.

While the platform was effective for current workloads, the organization wanted to expand its analytics capabilities to incorporate Energy Trading and Risk Management (ETRM) data to support the growing reporting needs of its trading and renewable energy operations.

With data volumes and reporting demands expected to grow, leadership needed to understand whether the current architecture could scale efficiently.

Industry: Energy Supply, Trading, and Risk Management

Services:

- ImpactNOW Proof of Value
- Microsoft Fabric Consulting & Implementation
- Data Analytics Consulting

Before moving forward, the organization partnered with ProArch to evaluate Microsoft Fabric as a potential long-term analytics platform and gain clear evidence that it could support the ingestion, transformation, orchestration, and reporting requirements for adding ETRM data.

Solution

ProArch delivered a Microsoft Fabric ImpactNOW Proof of Value designed to validate Fabric against realistic energy trading analytics requirements.

Using datasets from the client's ETRM environment, ProArch tested ingestion, transformation, orchestration, and reporting workflows inside Fabric.

The team built and demonstrated pipelines, notebooks, data models, and Power BI reporting integration while iterating with business stakeholders as reporting expectations evolved.

The engagement also surfaced key considerations around governance, architecture, data readiness, and migration planning so the client could understand not only whether Fabric worked, but... what it would take to scale it responsibly.

Results & Impact



Validated ETRM analytics feasibility

Fabric supported the ingestion, transformation, orchestration, and reporting patterns needed to bring ETRM data into the analytics environment.



Clarified the modernization path

The PoV identified architecture, governance, and migration considerations before broader investment.



Built confidence for scale

Leadership gained practical evidence that Fabric could support future data growth and reporting demand.



Created a foundation for future growth

With the PoV complete, the organization is better positioned to expand Fabric across additional datasets and analytics scenarios while moving toward a more unified, scalable platform with reduced operational complexity.



Improved stakeholder alignment

Iterative reporting reviews helped business and technical teams align on what worked, what needed refinement, and what scaling would require.



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