

Clean Energy Fuels streamlines operations and reporting on Azure Databricks

Learn how OZ Digital helped Clean Energy Fuels, a U.S.-based energy company, build a centralized data platform to automate and streamline their operations.



The Challenge

Clean Energy Fuels, an energy company focused on decarbonizing transportation, needed a centralized data foundation to automate critical operational workflows as well as improve enterprise-wide reporting. Manual processes for invoice handling and fragmented supply-and-demand data created inefficiencies, limited scalability, and increased errors in reporting.

As Clean Energy Fuels scaled, the challenges compounded. Different teams began relying on different systems and data sources to manage operations and financial information. Business-critical data—from invoices and supply-and-demand inputs—flowed through various channels, including SharePoint repositories, external web portals, sensor-generated operational systems, and on-premises SQL databases creating inconsistencies in reporting and operational challenges.

Business Need

Their environment became so fragmented that it became increasingly harder to capture, validate, and reconcile information. This resulted in delays, inconsistencies, and erroneous data.

How OZ Helped

We designed and implemented a scalable data platform built on Azure Databricks lakehouse architecture to centralize and manage operational and financial data across the enterprise.

Using Unity Catalog, we centralized governance, secured access controls, and established data management policies to ensure compliance.

The initial deployment focused on automating the ingestion and processing of invoice and supply-and-demand data, replacing disconnected manual workflows with reusable, automated pipelines. By applying standardized transformation rules, analytics-ready datasets were created and a governed lakehouse framework was built. All with curated data layers that provided a strong foundation for future enhancements in data quality, enterprise reporting, and advanced analytics.

Impact

By modernizing its data foundation, Clean Energy Fuels has transformed fragmented, manual workflows into a centralized and scalable enterprise data environment.

Additionally, they benefited from:

- A reduction in manual effort through automated, repeatable data pipelines
- Improved data consistency and trust across business teams
- Scalable analytics and accurate reporting
- A future-ready foundation for continued data modernization



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