

GasRisk360

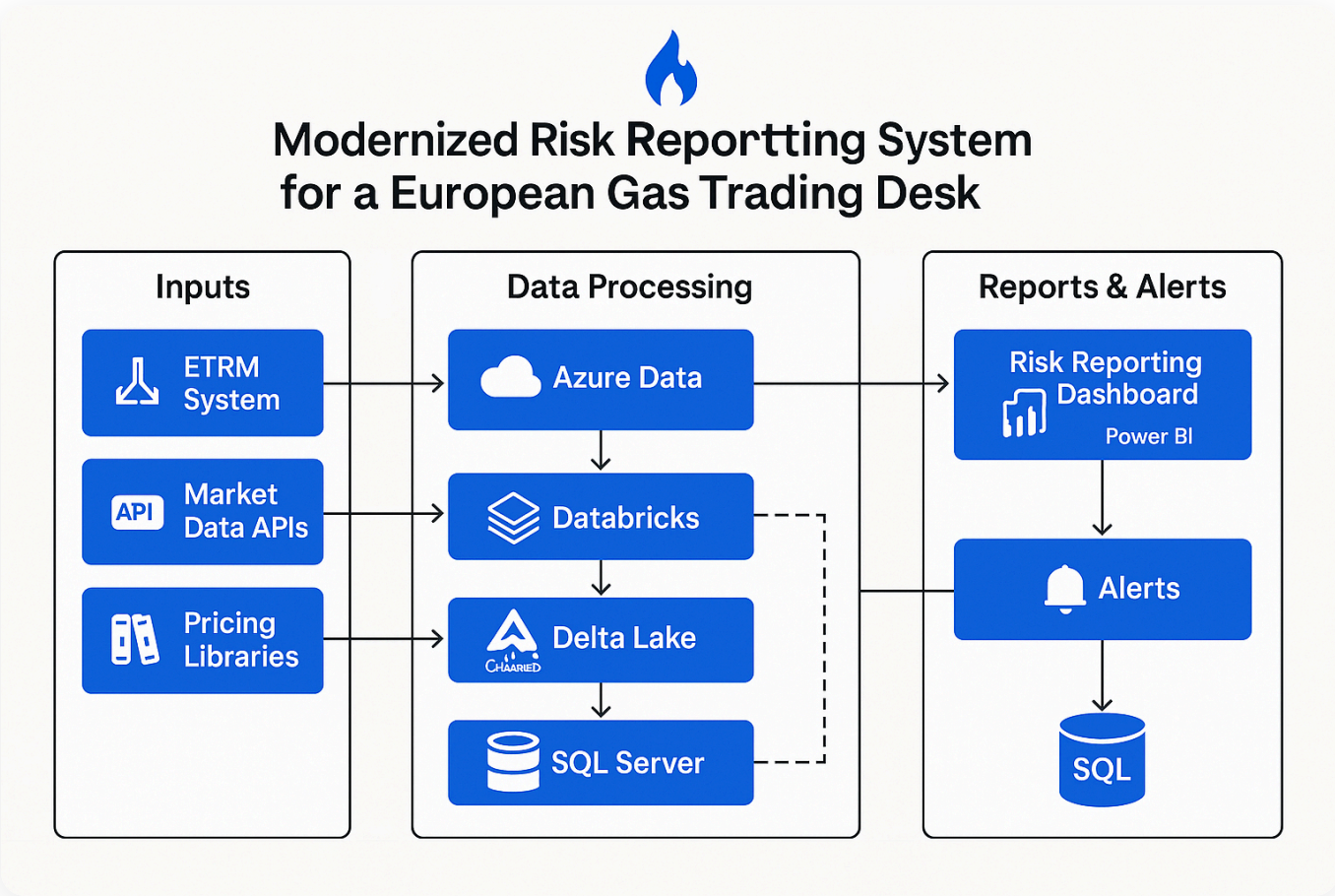
Modernized Risk Reporting for a European Gas Trading Desk

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A leading European gas trading desk struggled with slow, manual risk reporting workflows using fragmented spreadsheets and outdated tools. The lack of real-time data, poor audit trails, and delayed risk visibility hindered both compliance and decision-making.

Solution Overview

Our team delivered **GasRisk360**, an end-to-end risk reporting platform powered by modern data architecture. The system automatically ingests trade, pricing, and market data; processes it using distributed analytics engines; and delivers rich, real-time insights via intuitive dashboards.



Architecture of the Modernized Risk Reporting System



Key Capabilities

- Real-time ingestion of trades, exposures, and market data
- Advanced risk metrics: VaR, PnL breakdown, stress scenarios
- Automated alerting for breaches and anomalies
- Audit-ready historical snapshots for EMIR/REMIT compliance
- Centralized reporting via Power BI dashboards



Tech Stack

Azure Data Lake: Raw data staging and archival

Databricks (PySpark): Distributed analytics and transformation

Delta Lake: Unified lakehouse layer with ACID guarantees

SQL Server: Structured queryable store for risk data marts

Power BI & Streamlit: Dashboards and alert interfaces



Business Impact

- **4x faster** risk reporting (from 4 hours to under 30 mins)
- **Enhanced visibility** across front office, risk, and compliance
- **Zero-touch automation** reduced manual intervention by 90%
- **Scalable architecture** ready for multi-commodity expansion