

# Real-Time Position & Exposure Dashboards

## Empowering Operational Agility for a Power Utility

A major power utility needed accurate, intraday visibility into its trading positions and exposure to meet both market demands and regulatory compliance. Traditional reporting was delayed, disjointed, and reactive—impacting trading and risk performance.

### Our Solution

We built and deployed a real-time dashboard platform that consolidated trade, meter, and market data into one unified system. The result? Live monitoring of position and exposure across portfolios with minimal latency and full traceability.

#### REAL-TIME POSITION AND EXPOSURE DASHBOARD

##### DATA SOURCES



Trade Data



Meter Data



Market Data

##### DATA PROCESSING



Azure Data Lake

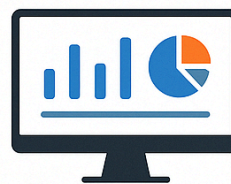


Stream Processing



SQL Database

##### DASHBOARDS

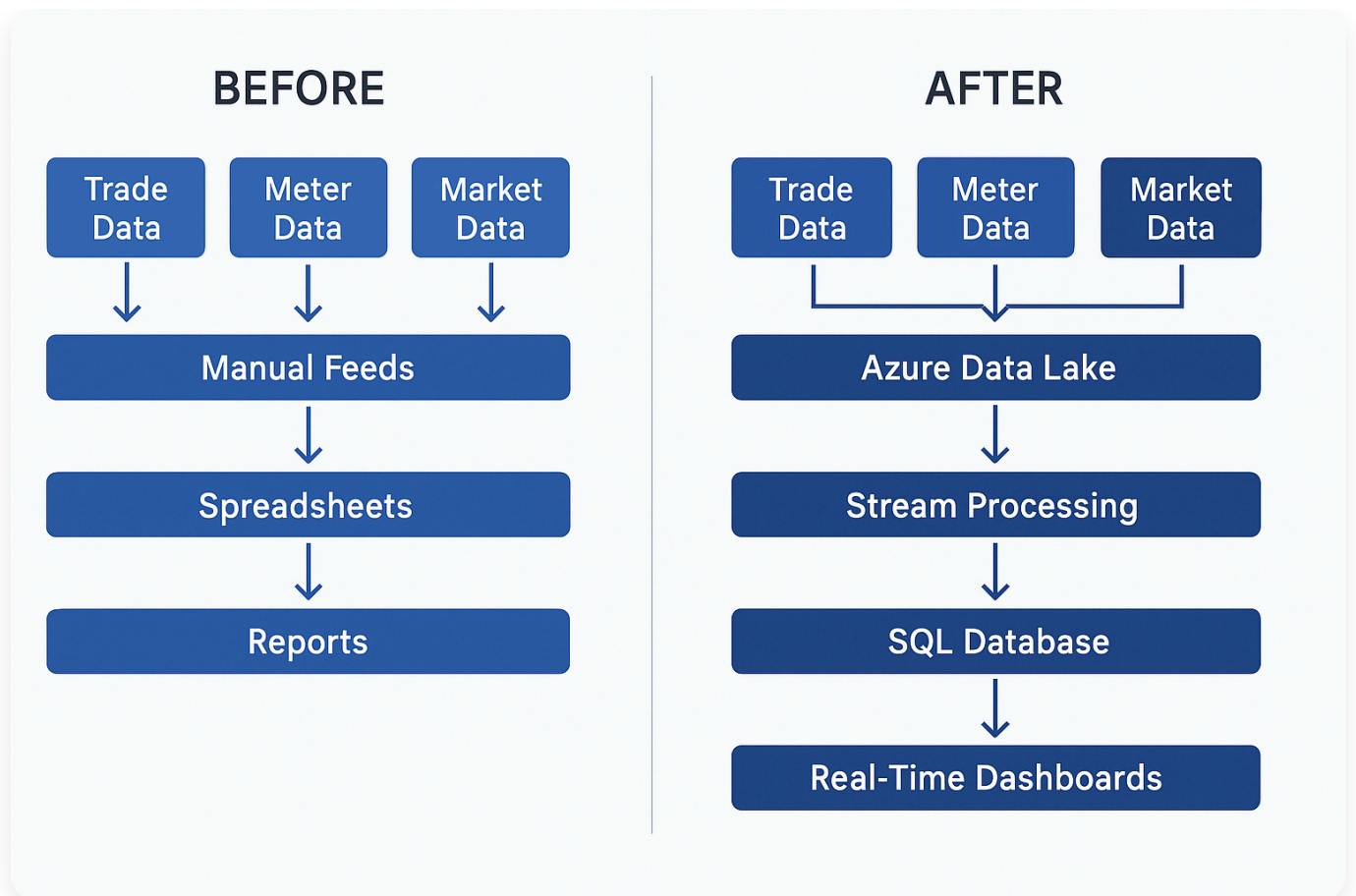


Real-Time Position  
and Exposure  
Dashboards

*System Architecture – From data ingestion to live dashboards*



### Before vs After Architecture



*Transformation from spreadsheet-based manual workflows to automated real-time dashboards*

## Key Capabilities

- Live trade flow and market data integration
- Stream processing for near real-time updates
- Unified view of net positions and exposure
- Built-in alerts and data quality checks
- Custom views for risk, operations, and trading teams

## Tech Stack

**Azure Data Lake:** Centralized data landing zone

**Stream Processing:** Real-time data transformation and enrichment

**SQL Database:** Curated position and exposure store

**Power BI / Grafana:** Interactive real-time dashboards



## Business Impact

- **60% reduction** in end-of-day reconciliation efforts
- **Real-time decision-making** for traders and risk teams
- **Audit-ready visibility** for compliance and regulators