

Company: Multi Brand Electrical  
Equipment Company

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# Data Storage & Reporting optimized with MSBI and Power BI





# Client Overview

Our client is India's leading Fast-Moving Electrical Goods (FMEG) manufacturer, producing a wide range of world-class industrial and consumer electrical products. It manufactures 90% of all its products in-house and has an extremely strong global presence with manufacturing plants located across 12 manufacturing locations domestically.



# Problem Statement

Looking to improve their growth prospects while maintaining a competitive edge, our client sought a solution to automate their processes and present their data in a consumable format at regular intervals to increase business efficiency and clarity of information. Initially, the client partnered with another solution provider; however, they were unable to deliver a reliable outcome.

As a result, they faced more challenges in managing their data effectively and ensuring clarity of information for informed decision-making.





# Key Challenges

The existing system failed to meet business expectations, resulting in a subpar Data Warehouse management approach. Consequently, the reports produced were neither interactive nor insightful, leading to significant challenges for the stakeholders. This led to :

## Disparate Data Management

They faced inefficiencies in data collation and reporting due to numerous disparate Excel spreadsheets. This reliance on manual processes hindered the accuracy and consistency of their reports.

## Data integrity issues

There was a lack of strict adherence to hierarchy control, causing issues such as onboarded vendors' data flowing into reports. This undermined the purpose of the reporting solution.

## Limitations with existing tools

They faced challenges in data integration from various domains into a centralized repository, hindering the development of HR dashboards and restricting effective data collation.

## Manual and Redundant Activities

The heavy reliance on manual data entry and collation led to inefficiencies, increasing the risk of human error and consuming valuable time that could be better spent on strategic initiatives.

# Solution overview

## Technology Stack



Our team, as Microsoft Solutions Partners, leveraged their expertise to identify the root causes of the client's reporting issues through multiple discovery workshops. We suggested an optimal architecture and solution development approach to turn around the implementation.

# Solution Details

## Key aspects of the solution included :

### ● Centralized Repository

Deployed a SQL-based data warehouse using SSIS to collect data from various operational systems.

### ● Automated Reporting

Established SSRS reports to automate reporting and eliminate manual monitoring, enhancing data accuracy.

### ● Anomaly Monitoring

Created triggers to monitor anomalies in fact and master data mapping, ensuring data hygiene.

### ● Data Cubes Development

Developed data cubes with SSAS for optimized access and performance across different business domains.

### ● Real-Time Analysis

Set up Power BI reports based on data cubes for real-time and time-sensitive reporting.



### **Hierarchy-based access**

Implementing hierarchy-based access to reports to ensure users only see relevant information

### **Tailored Data Loads**

Employed different loading techniques, like incremental loads for freight data and snapshots for HR data, to meet specific business requirements.

### **Piloting Approach**

Piloted with HR and Freight data, later expanding to sales, quality control, finance, and material management

### **Comprehensive Services:**

Developed data cubes with SSAS for optimized access and performance across different business domains.

# Solution Highlight



**Root Cause  
Analysis**



**Anomaly  
Monitoring**



**Centralized  
Repository**



**Automated  
Reporting**



**Data cubes  
creation**



**PowerBI  
Integration**



**User Access  
Control**



**Tailored Data  
Loads**



**End-to-end  
Services**



# Business Impact


99.95%

**time-saved for financial reporting**



The time to generate finance reports decreased from 2-3 days to just 2-3 minutes, resulting in a significant reduction in labour hours.

150+ **dashboards created for improved visibility**



This allows for comprehensive data visualization and analysis across various business functions, improving insights and operational oversight.

60%

**reduction in data errors**



Automated alerts reduce data errors by up to 30%, enhancing integrity and enabling quicker resolutions to minimize operational impact.

# Client Feedback

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Polestar's implementation of MSBI and Power BI has transformed our reporting, replacing the previous ineffective system. Their centralized repository streamlined operations, significantly improving the efficiency of finance reporting. Automated alerts reduced data errors and enabled the creation of numerous dashboards for valuable insights. The ROI has been substantial, empowering data-driven decisions.

We highly recommend Polestar's expertise.

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