

Creating a NextGen Data and Analytics Ecosystem for a Leading Global Battery Manufacturer

Challenges faced

Our client, a major global battery manufacturer, wanted to create an easy-to-use modern data and analytics platform to enable rich data engineering and advanced analytics capabilities. This was crucial to ensure a rich end-user experience and democratize data and analytics across the organization. Moreover, the client was looking at integrating these analytics solutions into the business processes to make the processes smarter. To serve their business requirements, we had to build a scalable, high-performance cloud-based ecosystem that could connect to data from various systems and across various applications.

Our solution

Spectra was leveraged as a data integrator for the Snowflake Cloud Platform to enable the shift from a siloed application architecture to an integrated user experience-driven architecture. It also provided an integrated platform for faster data orchestration.

Here are some features of the "pragmatic transformation approach"

- Created a unified data platform to cater regional and global enterprise data needs; the platform comprised operational reporting, self-service analytics, and data science capabilities on hyper distributed data
- Performed better than competition as a data integrator for Snowflake and executed platform data pipelines with 90% more efficiency than the existing ETL platform
- Used Snowflake as an effective cloud warehouse to store data, with consistent metadata and metric definition to ensure a single version of truth; Snowflake's data encryption and decryption features improved trust in the system, which provided high scalability and performance by managing pushdown data transformation using Spectra's cloud-native architecture
- Strengthened the cloud-doption strategy through Spectra's PaaS deployment on cloud, along with Snowflake's cloud-native architecture

Business impact

The implementation of Spectra and Snowflake Cloud Platform enabled faster decision-making for the client by providing data-and-analytics-as-a-service to maintain and consume data. It also provided data encryption and decryption capabilities to control data, increased productivity manifold, and improved ROI significantly.

Additionally, it offered the following business benefits to the client



80% reduction in batch processing time



80% reduction in batch failures



90% efficiency in design efforts



Significant increase in battery sales revenue

The Fosfor Product Suite is the only end-to-end suite for optimizing all aspects of the data-to-decisions lifecycle. Fosfor helps you make better decisions, ensuring you have the right data in more hands in the fastest time possible. The Fosfor Product Suite is made up of Spectra, a comprehensive DataOps platform; Optic, a data fabric to facilitate data discovery-to-consumption journeys; Refract, a Data Science and MLOps platform; Aspect, a no-code unstructured data processing platform; and Lumin, an augmented analytics platform. Taken together, the Fosfor suite helps businesses discover the hidden value in their data. The Fosfor Data Products Unit is part of LTI, a global technology consulting and digital solutions company with hundreds of clients and operations in 31 countries. For more information, visit [Fosfor.com](https://fosfor.com).