

Enabling Enterprise Carbon Emissions Reporting with Azure



CHALLENGE

The client relied on legacy systems that limited scalability, reporting, and user experience. Disconnected data sources made it difficult to generate accurate, real-time carbon emissions insights across millions of shipments.

AZURE-BASED CARBON EMISSIONS PLATFORM

Developed a cloud-native application on Microsoft Azure using Databricks, PySpark, Spring Boot, Angular, and React. The platform automated package-level CO₂ calculations, reporting, and predictive analytics while supporting GLEC and GHG compliance.

SOLVED FOR A GLOBAL SCALE

Enabled real-time carbon emissions reporting across global shipments with a scalable, cloud-native platform. The solution improved sustainability reporting, enhanced shipment planning, and supported the client's carbon neutrality goals.

IMPACT

Direct Benefits

15M+

Packages Processed

5B+

Package-Level Data Records
Created

60+

Countries Supported

Contributing to

ESG Reporting

Carbon Emissions Management & Cloud
Modernization