

CUSTOMER CASE STUDY

Historical Data Migration

BKOAI rebuilt the facility's data architecture and migrated historical data while preserving operational context

Industry: Power Generation

GOALS

- Transfer historical datasets from legacy systems to modern analytics platforms.
- Recreate data archives, asset frameworks, and associated visualizations.
- Reduce manual effort involved in rebuilding data structures.
- Preserve historical data and its operational context during migration.

CHALLENGES

- Large volumes of historical data make migration from legacy systems complex.
- Manually rebuilding data frameworks and visualizations is time-consuming and prone to error.
- Maintaining relationships between data and assets adds complexity to the transition.
- Migration must account for ongoing operations and continued access to historical information.

SOLUTIONS

- Automate the extraction, validation, and backfilling of historical data.
- Reconstruct data archives, asset frameworks, and visualizations on the destination platform.
- Standardize migration workflows to reduce reliance on manual scripting.
- Validate migrated data and reconstructed structures against the source system.

RESULTS

- Reduced migration timelines from several months to just a few weeks.
- Maintained continuous operational uptime with zero technical interruptions for business users.
- Preserved complete data integrity with zero records lost during the archive rebuild.

EXECUTIVE SUMMARY

BKOAI rebuilt the facility's data architecture and migrated historical data while preserving operational context. The migration automated extraction, validation, and backfilling of legacy historical data while reconstructing data archives, asset frameworks, and visualizations on the destination platform. Standardized workflows reduced reliance on manual scripting, while validation against the source system preserved data integrity and supported continuous operational access throughout the transition.

Preserving Historical Context During Modernization

Large volumes of historical data and complex relationships between data and assets make legacy-system migrations difficult. The project also had to preserve operational context and maintain continued access to historical information while the destination environment was rebuilt.

Automated Reconstruction and Validation

BKOAI automated extraction, validation, and backfilling of historical data, then reconstructed archives, asset frameworks, and associated visualizations on the destination platform. Standardized migration workflows reduced dependence on manual scripting, and migrated data and reconstructed structures were validated against the source system.

Faster Migration with Continuous Operations

The approach reduced migration timelines from several months to just a few weeks. The facility maintained continuous operational uptime with zero technical interruptions for business users, and complete data integrity was preserved with zero records lost during the archive rebuild.

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