



Energy Company Modernizing With the HeroPath Platform

Use Case

This Use Case will outline how modernizing a data platform has led to various positive outcomes for an energy sector client.

Background

In any industry, being forward-thinking is the cornerstone of success. This is true in any economy, however, it is particularly relevant in current times, as we all look for effective ways to pivot, adapt, and redefine our normal. In one strong example of what it means to be adaptable, BDO Lixar has had the pleasure of working with an energy company that prides itself on continuous innovation. Always looking for ways to modernize, thus strengthening its competitive advantage, this organization engaged us to help them identify and implement new, modern processes that would push them forward in this endeavor.

To best define the next steps in the company's data journey, BDO Lixar first held a data discovery workshop, designed to identify key business drivers and use cases, and create an effective data strategy roadmap. Following the success of the workshop, we were further engaged to implement our proposed solution: HeroPath, our unique, award-winning, modern data platform.

Harnessing the power of data, we built a scalable and adaptable cloud-based solution that would help the company unlock valuable insights to be more data-driven. In doing so, the company has been able to create better processes, with several positive results.

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Key Results

By leveraging HeroPath, our client has seen excellent results that correlate directly to their key business drivers, such as: 1) gaining valuable insights that help to increase revenue and revenue streams; 2) optimizing existing assets to do more with less and improve operational efficiencies; 3) increase data awareness to make data-driven decisions, quickly; and 4) driving innovation and developing new products, to increase competitive advantage

Solution Overview

We built our client a highly scalable and adaptable, Azure-based data platform to ingest a variety of data sources that are vital to day-to-day operations. HeroPath makes this data usable, transforming it into valuable insights that are displayed on an easy-to-use, interactive dashboard. In this way, the data tells a narrative about where they've been, where they are, and where they're going. This is more than information. This is the ability to identify trends and risks, reveal patterns,

make predictions, identify revenue opportunities, and optimize operations — all at your fingertips.

With this modernized platform in place, data can be treated as the strategic corporate asset that it is, which is exactly what our client has done. Using HeroPath as a building block for digital transformation, we continue to work with this company to make the most of their data, improving several processes to address their challenges and goals.

Outcomes

- Advanced analytics to increase revenue and identify new revenue streams, such as potential customers and assets for potential acquisition
- Asset optimization using AI models to improve operations
- Real-time analytics to streamline processes and make better decisions on the fly
- New product development to increase competitive advantage

How it Works | Ingest, Transform, Engage

Building on over 20+ years of experience helping businesses go digital and become data-driven, BDO Lixar has designed HeroPath, our modern data platform, to be a customizable and scalable solution for any organization looking to begin or improve their data journey. Our accelerated infrastructure is unique in not only its built-in flexibility that allows us to always select the best components for your needs, but also in our ability to stand it up in just a day, rather than in weeks or months.

Technical Breakdown

Our unique approach ensures that we understand your goals and help you achieve them by: 1) ingesting the right data; 2) transforming it using the right components, and 3) allowing you to engage with it through interactive visualizations.

<h3 style="background-color: #2c4e64; color: white; padding: 5px;">Ingest</h3> <p>For this particular project, we needed to ingest a wide variety of data sources, which required two different technologies: Data Factory is used for batch ingestion, while Databricks is used for streaming ingestion.</p>	<h3 style="background-color: #2c4e64; color: white; padding: 5px;">Transform</h3> <p>This stage has been vital to everything our client has been able to achieve since implementing our solution. For example, modeling to optimize asset output has a major data transformation component. This middle stage relies on Data Factory to store both raw and curated data, for flexibility.</p>	<h3 style="background-color: #2c4e64; color: white; padding: 5px;">Engage</h3> <p>Being able to see and interact with real-time analytics has changed the way this company makes decisions about everything, from trades to schedules. Here, BDO Lixar implemented SQL server, from which reports and visualizations are pulled.</p>
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Features & Benefits

Data orchestration	Unifies and ingests data that will have the most value to address specific business challenges and goals — the right data, at the right time
Accelerated data pipeline	In only a day, have a data pipeline that will aggregate a high volume of data from various sources
Cloud solution	A scalable and cost-effective platform that allows you to only pay for what you need, as you need it
Flexible Azure architecture	Choose from the best-in-class tools for your specific requirements and budget, as needed
Advanced, Real-Time Analytics	Make data-driven decisions quickly and effectively, to find efficiencies, streamline processes, and increase revenue
Data Visualization	Get insights at a glance , with the ability to drill down and find answers to pressing business questions

Conclusion

This project is a strong demonstration of what modernizing your data platform can achieve, and the opportunities modernization creates. In engaging BDO Lixar to help them better leverage data, this energy company was able to move forward with multiple initiatives that allow them to do more with less, make better decisions, and stay ahead of the curve.

Gathering, analyzing, and understanding data is the best way to ensure you have access to meaningful insights, at all times. With HeroPath, this entire process is streamlined, saving you time and costs, so that you and your team can focus on what really matters. Today, more than ever, people are recognizing the value in making their organizations data-driven. Don't get left behind.

About BDO: From one dream to a century of excellence

BDO is a leading provider of professional services, delivering a range of assurance, accounting, tax, and advisory services. Complemented by continuously advancing technology expertise and 100 years of being connected to local communities, we're proud to cultivate ongoing relationships with clients across Canada and beyond—in virtually all business sectors. Our global BDO network positions us to provide consistent cross-border services to those with global needs.

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