

CASE STUDY

American Battery Solutions Partners with Voltaiq to Enable Data-Driven Product Development



American
Battery
Solutions

American Battery Solutions (ABS) is an industrial and commercial battery manufacturer located in the heart of the U.S. manufacturing belt. The ABS team includes battery systems experts with decades of experience designing, developing, and manufacturing advanced battery solutions for the transportation industry.



The Challenges:

ABS needed a faster, more effective way to manage, analyze, and draw actionable insights from their battery test data. Their legacy analysis process required battery engineers to manually collect data from test equipment using thumb drives, and analyze it using spreadsheet templates. The ABS team was looking for an automated, battery-specific solution that could scale to handle larger analysis workloads without requiring increased headcount.



The main goal in working with Voltaiq was to allow the technical team to focus on battery data analysis, freeing up the time that was dedicated to work that could be automated and outsourced.

*Erik Anderson
Director of Technology, Validation, and Testing,
American Battery Solutions, Inc.*



The Solution:

Voltaiq and ABS first connected back in 2019, when ABS had roughly 100 battery test channels in operation, performing extensive battery testing as part of their product development and validation process. At that time Erik Anderson, Director of Technology, Validation, and Testing, observed that the volume of data this testing generated, and the time required to meaningfully analyze it, merited a search for a purpose-built battery analytics solution.



ABS chose to adopt the Voltaiq Enterprise Battery Intelligence™ (EBI) platform because of the company's long-standing leadership position and significant expertise in battery analytics. Prior to selecting Voltaiq, ABS had developed some in-house tools to perform basic, essential battery data analysis, but they decided against continuing to build a custom solution for a few key reasons. First, this effort would have consumed significant time and resources that could be better spent developing products and serving customers. Second, while the ABS team had the expertise and capability to continue developing an in-house solution, maintenance and support would be an ongoing drain on the team, and would leave them exposed to the potential departure of key personnel. Ultimately ABS assessed that a productized solution with dedicated support and maintenance was the right choice for their organization.

Result:

Partnering with Voltaiq gave the ABS team instantaneous access to their data, with the industry's best battery data visualization tools to quickly unlock valuable insights. The data automation offered by Voltaiq's EBI platform delivered time savings of 10 hours per engineer, per week, and has reduced their exposure to potential team turnover. Today, the ABS team can spend more time and mental energy on high-value battery analysis, instead of low-value tasks like manually collecting and formatting data.

ABS is currently expanding its battery testing activities, with plans to grow its in-house testing capacity by roughly 75% over the next year. Their cloud-based Voltaiq system can scale seamlessly to accommodate this growth. Similarly, there are plans to incorporate system-level and pack-level battery testing and analysis into their Voltaiq workflows, so that their entire organization can capitalize on the benefits of Voltaiq's EBI platform.

[Contact us](#) and experience the Voltaiq difference today.

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About Voltaiq

Voltaiq has built the industry's first Enterprise Battery Intelligence (EBI) software platform, helping its customers optimize battery performance, reliability and financing, while avoiding costly recalls and catastrophic battery fires. Voltaiq's EBI platform is the only purpose-built, fully automated software solution that marshals vast quantities of battery data from across the full product lifecycle, providing a window into real-time battery function and a detailed view into future performance and behavior. Founded in 2012 by veteran battery and software entrepreneurs, Voltaiq's global customer base includes industry leaders in transportation, consumer electronics, energy storage, and the full battery supply chain. For more information, please visit www.voltaiq.com.