

# Power and Energy Company Saves Time and Money With Fully Integrated Battery Testing and Monitoring Solution



A Vertiv Case Study

## Background

Working with Vertiv for more than 10 years, this Atlantic-area power and energy company serves millions of customers across the United States. With more than 1,000 battery strings, the company places a major focus on remaining compliant with North American Electric Reliability Corporation (NERC) standards as part of its mission to deliver safe, reliable, affordable, and sustainable energy. In fact, in 2021, the company's customers had service 99.9% of the time, excluding major storms.

## Challenge

To better understand the true capacity of its batteries, this energy provider needed a more efficient way to perform discharge testing. Historically, this testing can be very expensive and time consuming. Without an installed stationary battery monitor, team members would have had to connect hundreds of leads to perform the tests. The company sought to collect both battery life and battery performance data in a simpler, streamlined way for improved asset management and NERC compliance.

## Solution

To help ensure timely battery testing and safe electrical system operation, this leader in power generation is implementing the Vertiv™ Albér™ Battery Capacity Testing Interface (BCTI) alongside its existing [Vertiv™ Albér™ Universal Xplorer Industrial Monitor \(UXIME\)](#). The company will deploy the Albér BCTI solution for the batteries supporting the transmission system, which is connected to the grid. With this solution, team members only need to make two connections — one to the load bank and one to the monitor. In essence, Albér BCTI is an extension of the Albér UXIME battery monitoring system that provides an interface to the [Vertiv™ Albér™ Continuous Load Unit \(CLU\)](#). This combination allows for testing setup and control of a load during a battery test managed through application software executing on the provider's laptop computer. Other suppliers don't offer a DC load bank or a BCT system that integrates seamlessly with monitoring, making the Vertiv solution unique in the market. The solution eliminates the need to have multiple suppliers for deployment of just the testing/monitoring solution.

## Outcome

With this fully integrated solution, that significantly reduces the number of battery connections, this energy company is able to greatly improve the safety of capacity testing. The simpler deployment also saves the company time and money. Not only will the provider benefit from the 24x7 data collection and remote alarm notification, but the Albér BCTI eliminates any need to engage external contractors for battery testing. Plus, combining the Albér UXIME, Albér BCTI, and [Vertiv™ Albér ELS2](#) offers a complete solution that streamlines NERC PRC-005 compliance. This unique combination addresses all the requirements in NERC's Table 1-4 by centrally storing the battery data and providing periodic reporting as needed. The solution also utilizes the battery connections of the Albér UXIME to simplify the capacity testing process.

### Company Profile

Electricity and natural gas provider to 7 million customers in 14 states

### Industry

Power Generation

### Region

Virginia, USA

*"This energy provider regularly goes beyond the minimum battery testing requirements for stationary applications which is a testament to the company's commitment to reliable power, ensuring its customers have service when they flip a switch or adjust the thermostat."*

- Tommy McDaniel,  
Senior Engineering Manager,  
Albér Products, Vertiv

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