



CASE STUDY

Financial Giant Benefits from Unified EPMS Systems

Groundbreaking Cloud-Based EPMS Solution Promotes Better Visibility and Understanding

Albireo Energy has been providing EPMS solutions to this financial giant since 2012. The company supports over 36 million brokerage accounts and 3.5 million trades a day, managing over \$10 trillion in customer assets.

CHALLENGE

This financial company initially built out its data centers with island EPMS systems that resided at the individual sites. To maintain these onsite EPMS systems, the client needed costly IT infrastructure equipment and additional labor hours. When a power problem was detected, technicians were required to go onsite to resolve the situation.

The client asked Albireo Energy to create a unified cloud-based EPMS system on a private network that could also perform repeatable reporting. They wanted to monitor the electrical systems throughout their data center portfolio via a single pane of glass and troubleshoot issues remotely – and not use their corporate network.

ALBIREO ENERGY'S SOLUTIONS

Albireo Energy partnered with Verizon to establish a private network that we own and manage. We then spent a year working the financial enterprise's cybersecurity team who vetted our process. The end result is a completely secure cloud-based EPMS system that unifies most of this large power user's U.S. data centers. Albireo Energy manages this solution from device to database to dashboards and reports to provide visibility of all platforms.

The system is powered by Schneider Electric's Power Monitoring Expert (PME). Albireo Energy recently earned Master Level EcoXpert™ Partner in Critical Power, the highest level of certification from Schneider. Master Level status represents the top percentile of companies that are trained and certified by Schneider Electric as leaders in their field. This status also allows us premium access to product roadmaps, tech support and training, which also benefit our clients.

With detailed, real-time information on each facility's megawatt usage, they accurately assess energy use and cost allocation by department. All information is available through a simple internet browser on a user-friendly dashboard, without the time and labor costs of hosting or managing the system.



This groundbreaking solution allows the financial company to access continuous system monitoring and automated reports on power and energy every week.

BENEFITS OF CLOUD-BASED EPMS

Ease of Deployment – The client can rapidly deploy power monitoring systems on our private cloud infrastructure through several flexible connectivity options.

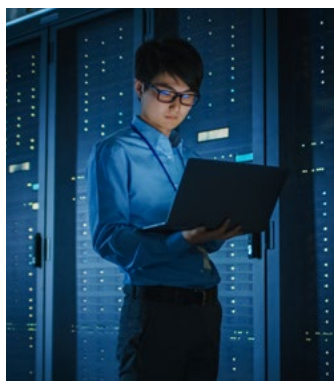
Cost – Traditional in-house implementations needed to build infrastructure for a highly available solution is expensive. Hosted solutions allow the client to leverage Albireo Energy’s infrastructure and expertise to realize a lower total cost of ownership for critical power management solutions (which is even lower than public cloud options). In addition, no new hardware is needed onsite.

Reliability – Our private cloud is deployed in a Tier 4, highly secured data center. The infrastructure is

monitored 24x7x365 to maintain maximum uptime. Connections are made by VPN, internet, cellular modems or our Verizon network.

Expertise – Our knowledgeable team shares their expertise and experience to help ensure the client gets the most out of their system, quickly and simply.

Maintenance – Ongoing maintenance, upgrades, backups and system monitoring require IT resources and an internal commitment to keep up with new releases and patches. With a hosted software solution, the client keeps their internal resources focused on important projects while Albireo Energy manages the system.



- 1 Cloud-based EPMS system that unifies 15 data centers
- 2 Flexibility for support
- 3 Verification to validate utility bills
- 4 Decreased hardware costs – no hardware needed onsite
- 5 Third parties are given a secure link to fix issues
- 6 Quick turnaround to resolve issues
- 7 Testing performed at optimal times to save money
- 8 Master Level EcoXpert™ Partner in Critical Power

RESULTS

Albireo Energy’s master service agreement includes maintaining the Verizon network, cloud hosting environment and support. Our solution ties the client’s U.S. data centers together on one platform to realize consistent and repeatable reporting.

This client’s goal is to unify 100% of the EPMS systems at their U.S. data centers to the cloud. To date, Albireo Energy has brought 15 data centers online to our single-view, cloud-based EPMS system. Three facilities are large stand-alone data centers. The others are hybrid facilities that feature a data center, call center and office space. More data centers are scheduled to be updated.

Utility bill accuracy has improved immensely. The client’s facility managers use Albireo Energy’s solutions to validate utility bills at each location. Data can be pulled to respond to inaccuracies and spikes in electrical usage. Third party engineers are given secure links to identify power-related issues remotely, which saves time and money. In addition, rate structures are more easily deciphered to benefit the client.

Easily accessed automated energy use reports and data

Accurately allocate costs and energy use

Maximize facility uptime and reliability

Examine and mitigate power quality related issues

Find new ways to extend equipment performance and life span

Track energy consumption and uncover savings opportunities

Instant alerts and notifications of system events

Interested in learning more? Reach out to Albireo Energy at info@albireoenergy.com.