

Leading ASEAN Colocation Provider Achieves Greater Flexibility and Efficiency with Vertiv PDUs



A Vertiv Case Study



Background

Amidst rapid digitization, Malaysia has a booming data center market. Touted as one of Southeast Asia's important locations for colocation and hyperscale companies, the country is expected to see investments of US\$14 billion by 2026, according to [Research and Markets](#). Because of competitive power costs, well-skilled employees, and cheaper access to land compared to other neighboring countries, Malaysia has seen a steady expansion of data center investment growth from regional and global players.

Among those expanding and increasing its investment is this leading ASEAN colocation provider. The customer, who is considered among the top five colocation providers in the country, has been a long-standing Vertiv client for over 20 years. They have deployed Vertiv solutions – ranging from uninterruptible power supply (UPS) solutions, power distribution units (PDUs) and thermal management products – across all their data center locations. In 2020, it reached out again to Vertiv for help in upgrading its legacy data center facility in Kuala Lumpur, while also finalizing constructions for a new six-story data center space in Cyberjaya.

Challenge: Replacing legacy power distribution units (PDUs) in its existing data center facility, while deploying highly flexible and efficient PDUs in its latest data center expansion

Solution: Vertiv™ Liebert® SPM Power Distribution Units

Results:

- Greater flexibility with customizable PDU features
- Built-in monitoring system to monitor performance of sub-main breakers as well as branch circuit monitoring
- Compact footprint
- Hot swappable features allow for zero interruption to operations

Go online to learn more about the Liebert® SPM Power Distribution Unit.

Challenge

Ever-increasing data center workloads brought by rapid digitization are requiring data center managers to prepare for increasing power density as well as more differing computing environments that may arise. In addition, developments in compute, storage and network hardware architecture are bringing forth a wide range of configurations, from hyperconverged infrastructure to edge IT cabinets, to mixing various server architectures. For colocation providers that supply the IT power infrastructure, it's imperative to have visibility into these changes to better plan for the power requirements from their customers.

As one of the top colocation providers in Malaysia, the customer was looking to achieve visibility as well as greater flexibility in the power infrastructure that it rents out to its clientele. Because of its massive expansion project, the customer was looking for a partner who can deploy the solution quickly so it can resume operations with as minimal disruption as possible.

Solution

After careful consideration made easy because of a strong relationship, the customer chose to deploy Vertiv™ Liebert® SPM power distribution units (PDU) to power their data center racks in two locations.

First, was in a legacy data center building situated in the capital of Kuala Lumpur. The goal was simply to upgrade existing PDUs with Liebert SPM PDUs. Second, was in a new data center building located in Cyberjaya. The purpose-built data center compound began construction in 2020, and will consist of four buildings, six-story each, with each floor measuring about 30m x 30m. Vertiv was selected to supply over a hundred Liebert SPM PDUs in both locations.



Liebert SPM 1

Results

Unlike other PDUs, the Liebert SPM is pre-packaged, factory-tested and customer-tailored, providing greater flexibility and ease of management for customers. The packaged system approach is not only convenient and space-saving, but it also greatly reduces installation time and cost compared to a conventional approach of using multiple interconnected components.

Upon installation of the Liebert SPM PDUs, the customer experienced a multitude of benefits including:

No disruptions to operations: the Liebert SPM's hot-swappable distribution network enables it to add or replace the entire power distribution network from outgoing feeder to power cable without need for any power interruptions. This brings greater peace of mind to the customer by avoiding power outages and ensuring continuous operations.

Enhanced monitoring capabilities: the Liebert SPM's built-in monitoring features allow the customer to track the performance of each sub-main breakers to easily isolate any issues if they arise.

Increased security and intelligence:

the Liebert SPM's distribution panels are in the computer room, limiting access to authorized personnel only.

Greater flexibility: because of its pre-packaged design, the Liebert SPM is space-saving and can be easily relocated as needed. This gives the customer greater flexibility and control in its data center space.

In addition to the benefits of the product, the customer was able to rest easy with Vertiv's trusted after-sales support, allowing the customer to easily contact Vertiv engineers for any issues or support needed 24 x 7.

Because of the benefits of the Liebert SPM PDUs, the customer is now well-positioned to support its clientele's IT services requirements. Overall, the customer was very pleased with the installation and results of the project and more Liebert SPM PDUs are currently being deployed in the customer's other data center projects.

Go online to learn more about the Liebert SPM PDU.

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