

Chiang Mai University's Science & Technology Park Deploys Highly Efficient Vertiv UPS



A Vertiv Case Study



Background

Thailand's Chiang Mai University (CMU) Science and Technology Park (STeP) is one of Asia's leading university science parks. Established in 2018, SteP's goal is to bring together Academia and Industry, as well as the Private Sector and Public Organizations. SteP offers a variety of services such as technological business incubation, technology transfer, collaborative research, testing, training, and mentoring and infrastructure services.

STeP houses the Northern Science Park and works in collaboration with 13 other universities in the Northern region of Thailand and offers total innovation solutions for enterprises by using science and technology resources from these universities. It also provides a smart launchpad for tech startups and incubation programs. STeP's Northern Science Park (NSP) building is fully equipped with facilities for innovative business development and a supportive innovation ecosystem.

Challenge:

Maintaining uptime and efficiency of the customer's campus data center

Solution:

Vertiv™ Liebert® EXM2 120 kVA UPS

Results:

- Up to 98.8% efficiency in Dynamic Online mode
- Can sustain high ambient temperatures of up to 50 °C
- Round-the-clock availability of university IT equipment
- Simplified installation, management, and maintenance



Challenge

As a leading university science park in Thailand and with innovation at its core, STeP was looking to enhance their campus data center to become more resilient against power instability in the area. Moreover, since the NSP is home to 54 organizations dedicated to performing countless research and tests, STeP wanted to make sure that all high value devices and equipment essential to their mission are protected against potential damages brought by sudden power loss. Hence, the NSP was particularly looking for a mid-size, efficient, and reliable uninterruptible power supply (UPS) for all its valuable IT equipment such as network and computer system, as well as its important devices in laboratories, and technology pilot plants.

Solution

To prevent costly and frequent repairs and replacement of equipment damaged due to the limitations of the existing small capacity UPS, the NSP acquired a more powerful UPS which can protect all their important devices and equipment.

“As part of our mission to become a trusted facility for research and development, we wanted to make sure that all organizations within STeP are able to conduct their research activities without any hitches. Availability of clean, continuous power is critical and we are looking to upgrade our existing UPS system within the campus,” said Associate Professor Dr. Pitiwat Wattanachai, Deputy Director from STeP.

After tedious research on different brands and careful evaluations of product features, SteP chose Vertiv, through its partners, SiS Distribution Thailand and Lannacom Company Limited, to provide the top-of-the-line power solution with high efficiency and reliability. STeP chose the Vertiv™ Liebert® EXM2 120kVA UPS as it matches the power requirements needed to support their growing operations.

The Liebert EXM2 UPS is proven to be the best choice to address the rising need for highly reliable and efficient UPS for next-gen mid-size critical applications. With its Dynamic Online mode feature, the Liebert EXM2 provides up to 98.8% efficiency, maximizing energy usage while securing the load against grid events, ensuring uptime when it is most needed. On top of this, Liebert EXM2 is lithium-ion battery compatible and operates at high ambient temperatures of up to 50 °C.

Results

To replace the old and small capacity UPS in the NSP building, Vertiv seamlessly delivered and installed the Liebert EXM2 UPS inside the science park's building. This significantly resolves the power instability issue being experienced in the area, and it helps maintain the power availability and reliability for all the valuable devices and equipment essential to the innovative goals of the organizations in the complex.

STeP is pleased with the power protection given by the Liebert EXM2. The Liebert EXM2 is an excellent choice for companies seeking to have a highly stable power protection with its industry-leading performance that supports business continuity.



To learn more about the Vertiv Liebert EXM2, visit [Vertiv.com](https://www.vertiv.com)

