

Hydro and Agro Informatics Institute – Thailand

Background

The Hydro and Agro Informatics Institute is a public entity that falls under Thailand's Ministry of Science and Technology with the goal to support better agricultural and water resource management. The country's agriculture sector consumes up to 70 percent of its total water supply so severe flooding and extreme drought can severely impact Thailand's economy and the health of its citizens.

Challenge

Following a major flood in 2011, the institute knew it needed to reduce its response times to weather emergencies and have the ability to quickly assess damage and make recommendations. These efforts would require a complete mobile data center with associated physical infrastructure that could deliver high levels of computing capacity from a number of field assets including six vehicles with mobile mapping systems, a survey boat, and a small aircraft used for aerial photography.

Solution

To support its mobile IT container, the institute chose to deploy **Active Power's CleanSource PowerHouse system**, a complete modular power solution that integrates all critical electrical components into a single, purpose built enclosure. The enclosure is made up of Active Power's flywheel based CleanSource UPS, a diesel generator, and an automatic transfer switch. The IT and power containers sit on independent trailers and transported via one truck. The mobility and flexibility of CleanSource PowerHouse made it an ideal fit for the application.

Result

The first of its kind in Asia, the fleet has effectively reduced the institute's emergency response time from two to three days to less than 20 hours. The data center and its assets can quickly move to flooded areas and capture and analyze large amounts of data on the conditions of lakes and rivers impacted by flooding, for example.



สถาบันสารสนเทศทรัพยากรน้ำและการเกษตร (องค์การมหาชน)
HYDRO AND AGRO INFORMATICS INSTITUTE

