



A FLYING LEAP INTO THE FUTURE

New power station has four new 1400 kVA Cummins generator sets and an older 1400 kVA unit.

International tourism is growing rapidly in Cambodia, and that is seeing millions of dollars of upgrades to the country's three main airports – Phnom Penh, Siem Reap and Sihanoukville.

In 2018 alone, more than 10 million passengers passed through these international airports. And it appears there's no sign of Cambodia's tourist boom slowing, nor the number of business customers flowing in – especially to the capital Phnom Penh – due to the country's economic boom.

Cambodia Airports, whose majority shareholder is French company VINCI Airports, is already developing infrastructure to cater for the planned expansion of Phnom Penh International Airport in the next five years.

As the world's second largest airport operator – the company provides everyday operation of 46 airports in 12 countries – VINCI Airports is well aware of infrastructure requirements while unlocking an airport's potential for growth.

A new power station at Phnom Penh airport, containing four new 1400 kVA Cummins generator sets and an older 1400 kVA unit, is an obvious sign that planning for the future is well advanced. Reliable, easy to maintain.

“We selected Cummins generator sets for the new power station based on our experience with the Cummins units at Siem Reap airport,” says Olivier Dugay, MEP manager for Cambodia Airports. “There have been no big issues with those gensets. They are reliable and easy to use and maintain.”



Kim Siang Ang, Cummins Power Generation territory manager (centre) with Suradet Sujiseomkul, Cummins DKSH (left) and Sean Huong, Lotus Green Team.

The six standby gensets at Siem Reap are Cummins QST30 units with a mix of 875 kVA and 1000 kVA ratings. The first two QST30 gensets were installed in 1999 followed by three more in 2005 and another in 2017. From 2005 to 2012 they operated as prime power generators with top-level reliability and durability.

Power system reliability is obviously critical to keep an airport functioning smoothly, and the new Cummins gensets at Phnom Penh airport have been selected to underpin this reliability. Factory testing of the gensets was carried out in the UK with Olivier Dugay in attendance.

The behind-the-scenes workings of any international airport terminal are a highly-tuned affair with thousands of passengers each day demanding hassle-free check-in, boarding and luggage collection along with modern shopping and restaurant facilities.

Critical airport functions.

Computers, public address, flight arrival/departure monitors, security cameras, elevators, air conditioning, apron lighting and aerobridge operation are just some of the myriad of airport terminal functions relying on uninterrupted electrical service.

Cummins DKSH power generation dealer in Cambodia, Lotus Green Team, installed the new 1400 kVA gensets powered by Cummins' mechanically-injected 50-litre KTA50, a legendary engine for its reliability and durability.

Founded in 2012, Lotus Green Team today has around 650 employees as a contracting service provider for the construction industry. It has carried out terminal extensions at both Phnom Penh and Siem Reap airports and has an excellent reputation for quality work.

The 1400 kVA gensets incorporate Cummins PowerCommand digital paralleling equipment; when there's a loss of power, the generators start-up, synchronise and are on-line in a sequence that takes less than 10 seconds. For critical airport functions such as the control tower, the gensets work in conjunction with a UPS (Uninterruptible Power Supply) system of batteries which maintains power supply until the gensets come on line and take over. ■



Cummins' legendary KTA50 engine powers the airport gensets.



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