

I.E.M. Co. Ltd  
Yangon, Myanmar

# Case Study

## DATA CENTER

### AT A GLANCE

#### CUSTOMER

Myint & Associates

#### SOLUTIONS

1 unit - 1100kVA KOHLER® Generator

2 units - 880kVA KOHLER Generator

3 units - 500kVA KOHLER Generator



## KOHLER PROVIDES RELIABLE POWER TO DATA CENTER IN MYANMAR

### BACKGROUND

When Integrated Engineering Management Co. Ltd (IEM), a leading engineering products provider in Myanmar, was tasked with providing reliable power for a new facility for Myint & Associates, a leading service provider in the oil and gas industry, they knew exactly who to recommend.

I.E.M. Co. Ltd recommended KOHLER power systems to provide a compact and fuel efficient solution.

“The compact and fuel-efficient KOHLER generators we supply are well-suited to the Yangon market where space is often limited,” said Thomas @ Their Naing, Executive Director with IEM.

Myint & Associates’ initial project request was for power solutions for its new 18-story facility but was so impressed with the quality of the units from KOHLER that the company asked IEM to recommend other KOHLER solutions for a new data center as well.

### CHALLENGE

“For the Myint & Associates job, space and efficiency were two of the biggest

challenges,” Thomas said. “So we specified industrial diesel generators that had the right sizing and fuel efficiency for the building and data center, and also they can be used outdoors.”

### IMPLEMENTATION

IEM handled the whole project from concept design to integration, providing the generators, switchgears, automatic transfer switch, bus duct, fuel tanks, cable works and exhaust ducting.

“Another reason why we recommended KOHLER models is because Kohler Power Systems designed the set-mounted synchronizing controllers especially for that purpose, which means we don’t have to deal with third-parties or warranty issues,”

### SOLUTION

The units selected by IEM comprised a 1100kVA generator and two 880kVA industrial diesel generators.

Both generator models feature engines that are capable of providing main power for an unlimited number of



Kohler Power Systems is a global power provider of integrated power solutions that provides complete power systems including generators up to 4200kVA, automatic transfer switches, switchgear, monitoring controls and accessories, for emergency, prime power and energy-management applications. Kohler Power Systems has delivered power solutions for markets worldwide since 1920.

hours annually in accordance with IS 8528-1, and emergency standby power in variable load applications in accordance with ISO 8528-1. The design and specification of the generators offer a higher load factor and also good fuel efficiency in operation. They are ideal for data center applications and other installations with high power requirements, such as casinos, hotels and resorts.

At the new data center, IEM installed three KV500C2 generators. The KV500C2 generator is capable of a 455kVA prime power rating and a 500kVA standby power rating. The KV series is part of a wide-ranging, international specification series, with outputs from 6kVA to 830kVA. The well-established product line is extremely versatile and compatible with a range of accessories including controls, silencers, enclosures, fuel tanks and block heaters. They can also be customized for specialized installation, for example in hazardous environments or locations subject to extreme weather conditions.

The KOHLER generators are compatible with two controllers, the KOHLER DEC4000 and the APM802. The KOHLER DEC4000 control unit is straightforward and user-friendly, with the emphasis on communication: USB connections, PC connections, control software and remote operation.

The APM802 controller, meanwhile, offers advanced power management and the ability to monitor and synchronize up to 64 generators simultaneously. It also includes its Human Machine Interface (HMI) with its large touchscreen and straightforward control navigation. Its Remote Monitoring Function allows users to control and access the HMI from a smartphone or other web-enabled device, while the Redundancy Module ensures that even in the event of just a single broken communication link, there is nevertheless no breakdown in communication between multiple synchronized generators. ■



## ABOUT I.E.M. CO. LTD

I.E.M. Co. Ltd, a leading engineering product provider in Myanmar, is based in the country's capital Yangon and has offices in Mandalay and Naypyitaw. Established in 1996, the company provides solutions from setup, maintenance, repair, delivery, and distribution to after-service. ■