



IEM

The Institution of Engineers, Malaysia

Organised by :
Mechanical Engineering Technical Division, IEM



Technical Visit

VIVATEL HOTEL - ENERGY EFFICIENCY RETROFIT PROJECT



23rd April 2026
9.00am - 1.00pm



Vivatel Hotel ,
Nice Paradise Sdn Bhd
85, Jalan Loke Yew
55200 Kuala Lumpur

BEM Approved CPD Hours: 3 Ref No IEM26/HQ/162/V

Technical Visit to Vivatel Hotel – Energy Efficiency Retrofit Project

The Institution of Engineers Malaysia (IEM) is organizing a technical visit to Vivatel Hotel, Kuala Lumpur, to highlight a comprehensive energy efficiency retrofit project successfully delivered by AL-CO Malaysia Sales & Services Sdn Bhd. The initiative modernized the hotel’s HVAC infrastructure while advancing sustainability goals.

Key upgrades included the installation of two GREE magnetic oil-free centrifugal chillers, providing quiet, vibration-free operation and reduced power consumption. An ECONOWATT ozone non-chemical cooling tower treatment system was introduced, eliminating hazardous chemicals and lowering maintenance costs. A GREE water-source heat pump now supplies hot water efficiently, reducing reliance on conventional heating and carbon emissions. Additionally, chiller plant controls and variable speed devices (VSDs) optimize energy use by matching motor speed to actual load demand.

Post-installation monitoring demonstrated a 32% reduction in monthly electricity consumption, translating to estimated savings of RM 77,954.10, with overall HVAC system savings reaching 47%. The project also reduced maintenance frequency, enhanced system reliability, and delivered positive environmental impacts. This visit offers participants valuable insights into practical applications of advanced HVAC technologies, sustainable water treatment, and renewable energy integration in large-scale facilities.

Programme	
08:30am	Departure from IEM
09.30am	Arrival at Vivatel Hotel
10.00-10.30am	Simple Refreshment
10.30am - 11.30am	Presentation and Safety Briefing
11.30am - 12.30pm	Hotel tour
12.30pm - 1.00pm	Q & A Session
1.00pm	End of Visit



- The visit is strictly limited to only forty **(40)** participants registered.
- Interested members could register and pay online at IEM website (<http://www.myiem.org.my>); or register by returning the appended registration form by **21st April 2026** together with the payment.
- Cheques are to be made payable to “The Institution of Engineers, Malaysia”.
- Members are also reminded that if a place is reserved, IEM may cancel the reservation if payment is not received.
- If IEM maintained the reserved seat and the intending participant failed to attend the visit on the date of the event, the fee will still have to be settled in full.