

TECHNICAL VISIT TO

AJIL BIOFUEL'S 2.4MWE CHP PLANT AT TOP GLOVE MERU:

A DECENTRALIZED, THERMODYNAMICALLY-OPTIMIZED ENERGY SOLUTION FOR INDUSTRIAL SUSTAINABILITY

(Organised by: Engineering Education Technical Division, IEM)

BEM Approved CPD/PDP hours: 4

Ref. No.: IEM25/HQ/233/V

Date/Day : 24th June 2025 (Tuesday)
Time : 1.00 pm – 5.00pm
Venue : Top Glove Manufacturing Facility, Top Glove F3, Lot 5091, Jalan Teratai, Off, Jalan Meru, 41050 Klang, Selangor Meru, Selangor
Transport : Coach will be provided (*assemble at Wisma IEM, PJ at 1.00pm*)

SYNOPSIS

Ajil Biofuel Sdn Bhd (ABSB) designed, built, and maintains a 2.4 MWe Combined Heat and Power (CHP) system at Top Glove's Meru facility. This system supports Top Glove's environmental goals by reducing emissions and using fuel efficiently—achieving 91.3% energy utilization by producing both electricity and heat from natural gas. Recovered heat is used for industrial processes, in line with Malaysia's energy efficiency standards.

The plant is highly reliable, running with 98% availability, thanks to strong design and in-house maintenance based on real-time diagnostics. A smart SCADA control system with advanced automation ensures stable operation, even during process changes. The electrical setup enhances safety and system reliability.

This CHP system not only saves energy and cuts emissions, but also provides dependable, cost-effective power for one of the world's largest glove manufacturers.

Technical Visit Highlights:

The visit offers IEM members a chance to see a working, efficient cogeneration plant in action. It showcases how local technology can deliver energy savings, process heat recovery, and power reliability. Attendees will learn about real-time control, in-house maintenance, and strategies that support 98% uptime—offering a strong example of sustainable industrial energy use in Malaysia.

REGISTRATION FEE:

Commitment fees (inclusive SST)

(Non-refundable & non-transferable)

Grade	Registration Fees
IEM Member	RM 50.00
Non-IEM Member	RM 70.00

The visit is strictly limited to **15 participants** registered on a first-come-first-serve basis.

Ir. Ts. Dr. Dhakshyani Ratnadurai
Chairman
Engineering Education Technical Division, IEM

ITINERARY OF THE VISIT

Time	Description
1.00pm	Depart from IEM, Petaling Jaya
2.00pm	Arrival and Welcome Briefing at Top Glove
2.10pm	Introduction by ABSB. ➤ Overview of the CHP project by ABSB technical team
2.30pm	Guided Tour: Visit to CHP engine room and generator, Observation of heat recovery systems (jacket water, exhaust gas, etc.), Walkthrough of thermal energy distribution and hot water supply process
3.30pm	Control Room Visit: Demonstration of SCADA system and PID-based automation, Industry 4.0 features: condition monitoring and remote access, Real-time diagnostics and maintenance strategies
4.30pm	Q&A Session
5.00pm	Group Photo and End of Visit

INFORMATION TO NOTE

- ✓ The visit is strictly limited to **15 participants** registered on a "first-come first-serve" basis. Participants shall bring their **own hard hats**.
- ✓ Interested participants are to register and pay online at www.myiem.org.my
- ✓ Please note that the commitment fee should be settled prior to the visit.
- ✓ After this closing date, IEM reserves the right to allocate seats on first come first pay basis.
- ✓ Members are also reminded that IEM **MAY** cancel the reservation if payment is not received before the closing date.

PERSONAL DATA PROTECTION ACT

I have read and understood the IEM's Personal Data Protection Notice published on IEM's website at <http://www.myiem.org.my> and I agree to IEM's use and processing of my personal data as set out in the said notice.

"IEM reserves the right to alter or cancel the programme due to unforeseen circumstances at its discretion".

For intending participants who choose to 'walk in without prior registration',

IEM SHALL NOT be responsible for any direct or consequential losses".