

## Half Day Talk on “Conceptual Design: An Energy Efficient Approach to Design Centralized Air-Conditioning VRV System for Commercial Buildings”

(Co-organised with Daikin Malaysia Sales & Service Sdn. Bhd.)

**Date** : Thursday, 27 June 2024  
**Time** : 9:00 a.m. – 1:00 p.m.  
**Venue** : Capri by Fraser, Menara Tiga Serangkai, Jalan Tengku Azizah, Kim Teng Park, 80300 Johor Bahru, Johor.  
**Speaker** : Ts. Teoh Sun Jie, Manager of Application Engineering at Daikin Malaysia Sales & Service Sdn. Bhd.

### Synopsis

To align with SDG 7 (Affordable and Clean Energy), and SDG 13 (Climate Action), optimizing energy utilization in a commercial building is important, especially since the air-conditioning system consumes more than 50% of the total building electrical load. Often, designers use equipment’s rated power consumption or coefficient of performance (COP) to design an energy-efficient building but overlook some factors that could affect the equipment’s efficiency. In this presentation, these factors will be discussed, along with the suitability of centralized air-conditioning systems, such as VRV systems, for commercial buildings. Additionally, a proposal for a structural change to the building will be presented, which could potentially improve efficiency of the air-conditioning system.

Time	Tentative Programme
8:30 a.m. – 9:00 a.m.	Registration
9:00 a.m. – 9:05 a.m.	Welcome Speech by IEM (SB) Organising Committee
9:05 a.m. – 10:30 a.m.	Session 1
10:30 a.m. – 10:45 a.m.	Coffee Break
10:45 a.m. – 12:30 p.m.	Session 2
12:30 p.m. – 1:00 p.m.	- Case study and Discussion - Question & Answer Session
1:00 p.m.	Closing & End of Talk (Lunch is provided)

### About the Speaker:



**Ts. Teoh Sun Jie** is the Manager of the Application Engineering Department at Daikin Malaysia. He graduated in 2009 with a Bachelor of Mechanical Engineering (Hons.) at Universiti Malaysia Pahang and joined Daikin R&D as a Product Development Engineer. After 2.5 years in R&D, he ventured into a new career as chiller maintenance service sales, VRV & control system commissioning, engineering support. Currently he is the Manager of the Application Engineering Department at Daikin Malaysia. He has 15 years of experiences in the HVAC Industry, particularly in VRV System and Centralized Control System Design for Commercial Buildings. His areas of interest include air-cooled and water-cooled VRV, VRV-AHU, Centralized Control System, Building Energy Efficiency, IAQ, Heat Recovery Hot Water System, Urban Farming, and Computational Fluid Dynamics (CFD) Analysis.

### Participant Fee:

Grade	Fee
IEM Members	RM 90.00
Non-IEM Member	RM 150.00

**Closing Date: 24 June 2024**

**EARLY BIRD FOR IEM MEMBERS  
BEFORE 12<sup>TH</sup> JUNE 2024  
RM 70.00 NETT**

Registration will be on a first-come-first-serve basis. Kindly return the reply slip to the IEM (SB) office before **24 June 2024** together with a non-refundable cheque for the participant fees made payable to **The Institution of Engineers, Malaysia (Southern Branch)**. Alternatively, you could bank-in the participant fees into the Institution's Maybank Current Account (No. 5-013920-15708), and to facsimile both the Bank-in and Reply Slips to the Institution. The Institution requests all members co-operation in ensuring fees are paid in advance to the seminar. Please also be reminded that fees will not be refunded to absent participants who have paid, and to also note that all reservations must be paid despite participant cancellations. Thank you for your continuous support of the Institution.

Chairman, Sub-Committee on Seminar and Technical Talk, IEM (SB)

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**REPLY SLIP**

To: Hon. Secretary, The Institution of Engineers, Malaysia (Southern Branch) **Fax: 07 – 3363406**  
**Half Day Talk on “Conceptual Design: An Energy Efficient Approach to Design  
Centralized Air-Conditioning VRV System for Commercial Buildings”**

Thursday, 27 June 2024, 9:00 a.m. – 1:00 p.m.  
at Capri by Fraser, Johor Bahru.

I wish to attend the above talk. I enclosed herewith a cheque no. .... for the amount of RM.....as payment for the participant fee.

Name of Member: ..... Membership No: ..... I/C No: .....  
Address: ..... Tel(O): .....(Fax).....  
..... Tel (H/P): .....  
..... E-mail: .....

Company's Name: .....

Signature: ..... Date: .....

**Note** : Kindly **email to [iemsouthern@gmail.com](mailto:iemsouthern@gmail.com) the Reply Slip together with the payment slip for confirmation.**  
: Attendance by representative will not be issued with the Certificate of Attendance.

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*I have read and understood IEM's Personal Data Protection Notice published on IEM's website at [www.myiem.org.my](http://www.myiem.org.my) and I agree to IEM's use and processing of my personal data*