

## **SUSTAINABILITY AND MODULAR MEP IN ICT DATA CENTRE**

### **Information and Communication Technology Special Interest Group**

Data Centre, a mission critical facility, as the main heart pumping algorithm data to keep our modern lifestyle and business alive in this digital era. Consequently, good design with advance technology is important for creating and maintaining a highly efficient, sustainable, and resilient Data Centre.


As everyone visited the Data Centre in real life or virtually online, Data Centre seems to be having a cool (as futuristic with blue light saber on the racks) and cold environment. Yet, the sustainability in design and implementation is being counted at the back of such cool & cold outlook.




In this session, the speaker will share some of the key points about sustainable approach & strategy, and here some heads up:

- How to **reduce the resources** deployment yet achieve “Concurrently Maintainable” design?
- How do you look into the **waste reduction**, such as battery, in Data Centre’s lifecycle?
- How to manage dynamic load placement in data hall to **save energy**?
- How Data Centre Infrastructure Monitoring System **improve engineering and operational processes** and energy usage?

Additionally, the speaker will share about the Prefabricated MEP module system that adopted in Data Centre industry. In view of enhanced social distance and other measures due to COVID-19 pandemic, the industry might strategize to move construction activities from worksite to a more controlled factory environment.



Ir. Maxx Wong Meng Fai has experience involving planning, design, construct, testing and commissioning on greenfield and brownfield data centre in different countries across Asia Pacific region. He is currently working as the Electrical Manager with an international real estate developer, CapitaLand Group. Ir. Maxx Wong is a Registered Professional Engineer with Bachelor of Electrical Engineering (Honours) degree from Multimedia University. He is a Corporate Member of Institution of Engineers Malaysia and hold Chartered Professional Engineer registered with Engineers Australia, ASEAN Engineer, APEC Engineer and International PE. He is also Data Centre Accredited Tier Designer (ATD) by Uptime Institute.



Ir. Phang Chee Man specialises in the design of critical power systems for mission critical facilities. He has in-depth of knowledge of mission critical facilities design, testing, and critical power reliability. Ir. Phang Chee Man holds the Bachelor (Hons) Degree in Electrical Engineering, Professional Engineer (Electrical) registered with BEM, Corporate Member of IEM, Corporate Member of IET, and Data Centre Accredited Tier Designer (ATD) by Uptime Institute.