HALF DAY SEMINAR ON BUSDUCT TEMPERATURE CONDITION MONITORING

IEM The Institution of Engineers, Malaysia

Organised by Electrical Engineering Technical Division

PHYSICAL EVENT

BEM Approved CPD: 4 Ref. No.: IEM22/HQ/141/S

Speaker : Mr. Jason Chia

26 May 2022, Thursday

9AM – 1PM WISMA IEM

Registration Fees (Subject to 6% SST)
IEM Members : RM 80.00
IEM Non Members : RM 160.00
Register online:
click here: www.myiem.org.my

SYNOPSIS

In 2015, an electrical fault in almost brought down Facebook's data center. Another similar incident in Seattle's data center hub started a fire and knocked a major online payment gateway offline, causing $6.8 million in damages. Both incidents were caused by progressive degradation of the busway insulation leading to arc flash and subsequent catastrophic damage on the power infrastructure. The common root cause behind it all stems from abnormal heating effect around busway joints that was not rectified in time.

The burning out of a power supply bus bar is a threat to plant safety and may lead to unplanned shutdowns of plant operations, making it imperative to quickly detect and respond to any indication of overheating. However, it is often difficult to carry out thorough inspections regularly due to complex network common in many data center, where there are many blind spots and difficult to access areas. Therefore, there have been rising interest in usage of permanent sensor installation for remote monitoring.

This seminar aims to analyze and compare the common methods currently employed to remotely detect hot spots. Additionally, it will also introduce how IIOT can be leveraged to provide 24/7, real-time updates on the busbar status to achieve consistently high quality of service, human safety and protection of the assets.

Mr. Jason Chia holds a Bachelor Degree in Mechanical Engineering (Specialized in Design with Honors), from National Technological University of Singapore in 2004. Jason has been in the field of conditional monitoring for both mechanical & electrical for more than 17 years. He has been providing sales and consultancy solutions for clients in SEA dealing with critical infrastructure from semiconductor, datacentre, petroleum to commercial building. He is also well verse in solutions for vibration, thermal, LV and MV electrical solutions. Some of the clients that Jason attended to are:-UMC Semicon, Holcim, SSMC, Petronas and etc.