Registration fee

FREE for Student Members

IEM Members: RM15.00

Non-Members: RM70.00

Date:

25th Aug 2022 (Thursday)

Time:

2.00pm to 4.00pm

Venue:

Virtual Platform Zoom

BEM Approved CPD/PDP Hours: 2

Ref No: IEM22/HQ/308/T (w)

PERSONAL DATA PROTECTION ACT

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Webinar Talk on "Asset Performance Management (APM) - The Issues, Concerns, Resistance and How to Overcome Them.

Organised By
Consulting Engineers, Special Interest Group, IEM

SYNOPSIS

More than 80% of electrical equipment's life cycle is spent in the operations and maintenance stage. Therefore, 80% or more of the equipment's ROI that has been invested during this stage has been so sub-optimal that it has caused its owners millions of ringgit losses per year. It is no point for a utility to complain of high overheads or raise tariffs unless APM is looked at first, so that the shareholders' value and the regulator's confidence are raised prior to that.

Ask any company what the assets in its **current** holding and chances are that, it will be struggling to come up with a definitive, fixed and a useful answer. Considering that knowing a company's asset value is a primary element in doing business, APM has and will become an indispensable tool. Therefore, the most efficient and effective implementation of an APM is critical and it requires that the factual data is collected on a real time basis. During this APM session, successful APM architecture and infrastructures will be looked at in depth. This takes into account the COVID-19, Ukrainian war and the current global disruptions across the board. Topics covered include AI, data analytics, big data, dynamic financial costings and statistics that results in reactive, preventative, condition monitoring, predictive, prescription and 'digital twin' approaches to be taken towards operating assets ROI maximization. ISO 55000 will be examined, from this aspect as well.

This talk will look at all the factors that has caused the end-users and Clients to shy away from APM, how OEM parties can contribute to its success and how companies/stakeholders can reap enormous benefits from it. The end-user wants a costed, prioritised equipment maintenance list with the longest O&M interval for business continuity. The OEM wants frequent O&M with the least failure liabilities and the stakeholders want the maximum cost benefit from the asset. These 3 seemingly contradictory, complex, intricate and interwoven needs must be brought to a 'win-win' solution. To this end, a detail insight and possible solutions will be highlighted during this event. Some of the most electrical failures will be looked at, from the lessons learned perspective. These lessons should have been learned before but it is better to be late than never.

SPEAKER BIODATA

Ts. Ir. S. Vignaeswaran has had more than 35 years of professional working experience in the electrical design, computer architecture, IT implementation, SCADA real-time data collection, project management, cybersecurity, project costing, contract management and tendering fields. He has been involved in state-of-the-art engineering applications while taking on the roles of Contractor, Client, specialist vendor and OEM, among others. It is this unique and highly synergistic past experiences that allows him to address and provide useful insights into complex, interrelated, intricate issues that plague current organizations such as AI, APM, cybersecurity etc. This combined with his strong grounding in statistics, financial costing and progressive corporate practices assists him to change how the industry sees and does things, both now and in the future.

He has an Electrical Engineering degree from Monash University (Clayton, Australia) and MSc in IT/BIS from University of Keele, UK. He continues to publish international papers in Engineering advances, IT, Computer Security, Tendering and the Project Management fields. He has carried out Malaysian National Security projects and has been Client's HOD (Electrical & Automation) in a large-scale Saudi Arabian project of RM 8 billion in value.

Prof. Ir. Tan Chee Fai AMN
Chairman
Consulting Engineers, Special Interest Group, IEM