

Organized by :

Consulting Engineering Special Interest Group (CESIG)

TECHNICAL TALK ON “ HOW TO TRANSLATE ENVIRONMENTAL, SOCIAL & GOVERNANCE (ESG) REQUIREMENTS INTO THE POWER CABLING SIZING CALCULATIONS? ”

by Ir. (Dr.) S. Vignaeswaran

29 July 2023
Saturday
9.00a.m -11.00am
Auditorium Chin
Fung Kee, 3rd
Floor, Wisma IEM.

REGISTRATION FEES

IEM STUDENT MEMBER : FREE

IEM MEMBER : RM 15

NON IEM MEMBER : RM 70

BEM APPROVED CPD HOURS : 2 Hours

CPD REF NUM : IEM23/HQ/295/T

Register at : www.iem.org.my



SYNOPSIS

The June 2023 Bulletin presents a comprehensive and practical approach to ESG in the electrical power cable sizing project currently underway in collaboration with an international university and the Malaysian Power Cable industry. It emphasizes the importance of translating intentions into actionable academic and engineering calculations for practitioners, designers, and students. Precise implementation involving all stakeholders and interlocking compliance is essential for achieving precise client requirements, impressive ROI, and improved business practices. During this presentation, the focus will be on why Malaysia has not secured international project consultancies, attributing it not to power cable sizing practices but to the principles, concepts, and values applied in those practices. The discussion on power cable sizing serves as a window into the broader and deeper engineering activities currently practiced in Malaysia. Drawing from the speaker's international experience, valuable insights will be shared to enhance both design engineering education and the career development of Malaysian electrical engineers.

It is evident that the subject matter discussed here cannot be effectively addressed by ChatGPT or any other AI within the next 5 to 10 years. The session will address challenging questions, including the absence of a power cable sizing methodology in Malaysia for the past 60 years, the factors driving its current importance, and the global trends supporting these mandatory requirements. Losing an aircraft is one thing, but jeopardizing the engineering industry and negatively impacting the Malaysian currency is an entirely different concern. The presentation will outline how to avoid such risks through engineering excellence, efficient processes, and innovative practices aligned with ESG principles. It is important to recognize that the days when a degree alone reflected an engineer's intellect, character, and values are behind us, and the correlation is now being questioned. The presentation will shed light on the evolving landscape where emphasis is placed on engineers' abilities, competencies, and adherence to ESG principles, both in the present and future.

ABOUT THE SPEAKER

Ir. (Dr.) S. Vignaeswaran PEPC has more than 30 years of working experience in the electrical, computer, IT, SCADA, project management and tendering field. He has been involved in state-of-the-art applications which includes operational technology (OT) cyber-security from the 1990s. 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, IT, Computer Security and Project Management fields.

He has been Client's HOD (Electrical & Automation) in a large-scale Saudi Arabian project up to RM 8 billion in value. He is currently involved in the research of a state-of-art utility automation and engineering systems that has applied new AI-based and pre-emptive approaches.

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