The Institution of Engineers, Malaysia

WEBINAR TALK

"ISO STANDARDS AND TRAPPED KEY INTERLOCK SYSTEM FOR ENERGY AND DATA CENTER PROJECTS"

Organised By :
Electrical Engineering Technical Division, IEM

WEBINAR DETAILS

25th Sept 2025
Thursday
2pm - 4pm

Virtual - Zoom Platform

Speaker

Van, Shen

Registration Fees
IEM Students :Free
IEM Members :RM15
Non-IEMMembers :RM70

BEM Approved CPD Hours :2 | Ref No. : Applying

To Register
www.myiem.org.my

Synopsis

Trapped key interlock and its solution is one of the best practices preventing human-error in high-risk industries. This presentation will begin by exploring the relevant ISO standards (ISO 14119 and ISO 19837) that govern the design and implementation of safety interlock systems.

Implementing a trapped key interlock solution into project and switchgear maintenance ensures that personnel cannot access potentially dangerous areas without the switchgear being put in a safe state. A well-designed interlock solution will also ensure that the system operates correctly and there is no chance of, for example, switching two incoming feeders on a to a common bus bar, or gaining access to an energized cabinet.

And we will bring theory to life how TKI is applied in renewable energy projects and Data centre projects, including,

In renewable energy,

- Application in Solar PV Farm, RMU, MV transformers, HV and GIS
- Application in Wind turbines

In Data Centres,

- UPS Bypass maintenance, power switching during bypass maintenance
- Application in LV/MV /HV switchgear
- Safety access to Converters & Transformers

Speakers Biodata

With over 15 years of experience in the Trapped Key Interlock (TKI) Industry, Van. Shen has a deep understanding of TKI technology and TKI application in energy projects.

His strong technical foundation is built upon on an advanced academic background, holding a master’s degree in Automation Control from Shanghai University and a bachelor's degree in in Electrical Engineering from Shandong University, which is ranked among the top-tier institutions in China.

He has collaborated with world-leading design institutes on renewable energy projects totalling nearly 30GW, including Solar power projects, wind energy projects and power storage projects.