



# THE INSTITUTION OF ENGINEERS, MALAYSIA

Bangunan Ingenieur, Lot 60/62, Jalan 52/4 Peti Surat 223. 46720 Petaling Jaya, Selangor Darul Ehsan  
Tel: 603-7968 4001/2 Fax: 603-7957 7678 E-mail : sec@iem.org.my IEM Homepage : <http://www.myiem.org.my>

## TALK ON "ENERGY DELIVERY SYSTEM – UNDERSTANDING POWER CABLES AND CONNECTIONS (PART 1)"

Organised by: the Electrical Engineering Technical Division, IEM

BEM approved CPD Hours: 2 Ref No: IEM16/HQ/263/T

Date : 13<sup>th</sup> August 2016  
Time : 9.00 to 11.00am (*Refreshment will be served at 2<sup>nd</sup> Flr from 8.30am onwards*)  
Venue : C&S & Tus Lecture Hall, 2nd Floor Floor, Wisma IEM  
Speaker : Ir Tan Chow Heang

### SYNOPSIS

Power cables are important component in energy delivery system, in depth understanding of its design & construction, Installation, O&M as well as failure or fault analysis will ensure safe operation and improve reliability of the supply system. This short talk will cover areas on the following topics.

1. Cable design and construction
2. Cable application, selection, and specification.
3. Underground Cable Installation
4. Cable ampacity ratings
5. Jointing and termination standards and practices
6. Commissioning & in service maintenance testing
7. Cable failure modes
8. Faults analysis on cable

### Speaker's Biodata

Ir. **TAN CHOW HEANG** currently is attached with Asset Management Department of TNB Distribution Division, he hold the post of Specialist – Underground Cable Performance & Diagnostic. He has served LLN/TNB for more than 33 years holding various positions working in areas including Distribution System Planning, Construction, Operation & Maintenance as well as Head of Section of Underground Cable, Head of Section for Substation Equipment. He has developed technical specification for MV underground cables and its related accessories for TNB, he has extensive experience in underground cable operation and maintenance including commissioning & maintenance testing and fault analysis. He offers specialist consultancy and advice to TNB regional and states operational staffs.

Ir. TAN CHOW HEANG graduated with Diploma in Electrical Power from UTM in 1983, Bachelor of Engineering Degree from University of Strathclyde, Glasgow, Scotland in 1990 and Master of Engineering (Power) from UTM, Malaysia in 1997. He is a Certified Competent Engineer by Energy Commission of Malaysia, Professional Engineer, ASEAN Engineer and Member of IEM.

Ir. Yau Chau Fong  
Chairman  
Electrical Engineering Technical Division, IEM

### ANNOUNCEMENTS TO NOTE:

- Preferential admission to talk shall be accorded to IEM members (**pre-registration and online registration are NOT required**).
- **Non members** may also attend the talk but will need to pay a registration fee of **RM50** and an administrative fee of **RM15**. GST is inclusive.
- Members of affiliated organisations upon producing their membership cards will be exempted from paying registration fee. Administrative fee is nevertheless applicable.
- Limited seats are available on a "first come first served" basis (maximum 100 participants).
- IEM members are reminded to produce membership cards for confirmation of attendance (CPD purpose) failing which a fee of RM25 will be imposed. GST inclusive.

### ADMINISTRATIVE FEE

- Kindly be informed that an administrative fee of **RM15** is payable for talks organized by IEM. GST is inclusive.
- The fee would be used to cover overhead costs, building maintenance expenses as well as contribute to Wisma IEM Building Fund.
- All contributions will be deeply appreciated by IEM.
- Student Members are however exempted.

### PERSONAL DATA PROTECTION ACT

I have read and understood the IEM's Personal Data Protection Notice published on IEM's website at <http://www.myiem.org.my> and I agree to IEM's use and processing of my personal data as set out in the said notice.

### CPD HOURS CONFIRMATION

Name: .....

Membership No: .....

Signature: .....