

Organised by Electrical Engineering Technical Division

# WEBINAR TALK ON ESTER FILLED DISTRIBUTION TRANSFORMER

BEM APPROVED CPD/PDP: 2 REF. NO.: IEM21/HQ/440/T(W)

## SPEAKER : DR BHABA P. DAS

**8 DECEMBER 2021,  
WEDNESDAY  
2PM - 4PM**

### **Registration Fees**

**(effective 1st August 2020)**

**IEM Members : RM 15.00**

**IEM Non Members : RM 70.00**

**Register online:**

**click here: [www.myiem.org.my](http://www.myiem.org.my)**





# SYNOPSIS

The ever-increasing demand for electricity in the world is a major cause of CO2 emissions. With increasing numbers of new distribution transformers added every year, the contribution of CO2 emission from these transformers increases. It has been reported by UN that almost 730 million tons/year are contributed by distribution transformers alone. Thus, there is a greater need to find a sustainable model to meet demand, maintain reliability and yet reduce CO2 emissions. This course will help to quantify the concept of Ester filled Distribution Transformer, a sustainable way to meet the future demand of the low voltage network. By combining the advantages of sustainable natural ester filled distribution transformer, this would be a force multiplier to the existing minimum efficiency guidelines and act as an encouragement for purchasers while defining their transformer purchasing policy by adopting sustainable transformer ratings rather than peak transformer ratings.

## Learning Outcomes:

- Brief review of Ester Fluid advantages.
- Case studies on Temperature rise testing of Ester filled Distribution Transformers.
- Carbon footprint Calculation of Distribution Transformers.
- Calculating Total Cost of Ownership of transformers including Environmental Costs.

# SPEAKER'S PROFILE

- Dr. Bhaba P. Das is the Lead Digital Business Developer for Transformers Business Line, HUB (Asia-Pacific, Middle East and Africa), Hitachi Energy, based in Singapore.
- Dr. Das is part of the HUB APMEA Application Engineering Team and spearheads the digital transformation efforts of transformers in the Asia Pacific Middle East and Africa regions.
- He is a Senior Member of IEEE, Young Professional of IEC and CIGRE NZ A2 panel member. He has published several peer reviewed journal papers, conference papers and magazine articles till date.