ORGANISED BY ELECTRICAL ENGINEERING TECHNICAL DIVISION

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HALF DAY WEBINAR ON POWER FACTOR CAPACITOR AND REACTOR BANK

SPEAKER:

MR RITESH LUTCHMAN

26 OCTOBER 2022,
WEDNESDAY

REGISTRATION FEES
(SUBJECT TO 6% SST)
IEM STUDENT MEMBERS : RM 40.00
IEM GRADUATE MEMBERS : RM 80.00
IEM CORPORATE MEMBERS : RM 125.00
IEM NON MEMBERS : RM 220.00
REGISTER ONLINE I WWW.MYIEM.ORG.MY / SITIAISYAH@IEM.ORG.MY

9.00AM - 1.00PM

SYNOPSIS

- Power Capacitors are important components in the electrical power distribution and with higher PF at 0.95, it will be good for energy efficiency (EE). With higher EE, there will be less demand on fossil fuel, reductions of carbon emission and other resources. Maximum demand will be reduced accordingly. For best EE usage, it is even better at PF = 1.0

- However, it is important to have the right selection of PF Capacitors for the type of loads to prevent high failure rates which may otherwise stress on the environments. Accidents such as fire may occur when capacitors fails. PF Capacitors designs are based on integrity protection with metalized PP film (for the capacitor elements) and impregnating materials. Long life operating capacitors are most friendly to the environment with more than 10 years operation. Careful consideration against harmonic contents and designed with other components in the PF Capacitors banks, it will operate without much problems throughout their life span and thus maintaining high constant PF.

- Power Factor Capacitor Testing Criteria to MS IEC60831-1 & 2

a) Destruction Test - Case Integrity Test preventing rupture
b) Aging Test
c) Self Healing Test
d) proper installation guideline

- How to prevent case rupture?
- How to select the correct reactor for the system?
- System Design and Calculation for correct PF Compensation for Motor load & Transformer
- Harmonics solution

SPEAKERS' PROFILE

Mr Ritesh Lutchman is currently the Senior Sales and Marketing Manager at Wisepro Sdn Bhd. He has been working in the industry for the past 15 years and has gathered great experience in the design, installation, troubleshooting and site works for the industries mentioned above. He has also received extensive training on the Lightning Protection at Dehn headquarters in Germany, power factor capacitors, reactors and harmonics at Shizuki headquarters in Japan and ATS applications and troubleshooting at Vitzrotech headquarters in Korea. He graduated from the University of Cape Town with a degree in Electrical Engineering in 2004 and Master's Degree in Electrical Engineering in 2006.