

HALF DAY WEBINAR ON 'POWER FACTOR CAPACITOR AND REACTOR BANK'

BEM Approved CPD/PDP: 4 Ref. No.: IEM21/HQ/065/T(w)

**THURSDAY, 18 MARCH 2021
9AM - 1PM**

SPEAKER :

Mr. RITESH LUTCHMAN

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(Subject to 6% SST)**

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SYNOPSIS

Power Capacitors are essential components in the electrical power distribution which improve Power Factor (PF) in an electrical network. Power Capacitors are used for PF correction. For consumers taking supply from TNB at 33kV or below, the value of the PF has to be maintained 0.85 and above. PF below 0.85 will result in PF surcharge. Hence, it is important to design and select correct Capacitor Banks with proper Operation & Maintenance (O&M) in place. With higher Energy Efficiency (EE), there will be less demand on fossil fuel, reductions of carbon emission and other resources. Maximum demand will be reduced accordingly. Again, it is also 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 fail. PF Capacitors designs are based on integrity protection with metalised PP film (for the capacitor elements) and impregnating materials. Careful consideration against harmonic contents is 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 IEC 60831-1 & 2 discussed in this webinar:

- a) Destruction Test - Case Integrity Test preventing rupture
- b) Aging Test
- c) Self-Healing Test
- d) Proper Installation Guideline

In this webinar, we will show you how to prevent case rupture and how to select the correct reactor for the system, which are also coupled with System Design and Calculation for correct PF Compensation for Motor load & Transformer and the Harmonics solution.

SPEAKERS' BIODATA

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.