

Registration

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Please reserve your seat by sending email to :

Ms. Apassara Jewtragool

Center of Excellence in Electrical Power Technology (CEPT),
Faculty of Engineering, Chulalongkorn University

Tel. 0 2218 6542-3 Fax. 0 2218 6544

Email: cuecept.ieee@gmail.com

Deadline for submission: 24 July 2017

Technical Seminar

Organized by :

IEEE Power & Energy Society - Thailand Chapter



Co-organized by :

IEEE Thailand Section | Thailand National Committee of CIGRE (TNC-CIGRE) | Center of Excellence in Electrical Power Technology, Faculty of Engineering, Chulalongkorn University | The Sirindhorn International Thai-German Graduate School of Engineering, King Mongkut's University of Technology North Bangkok

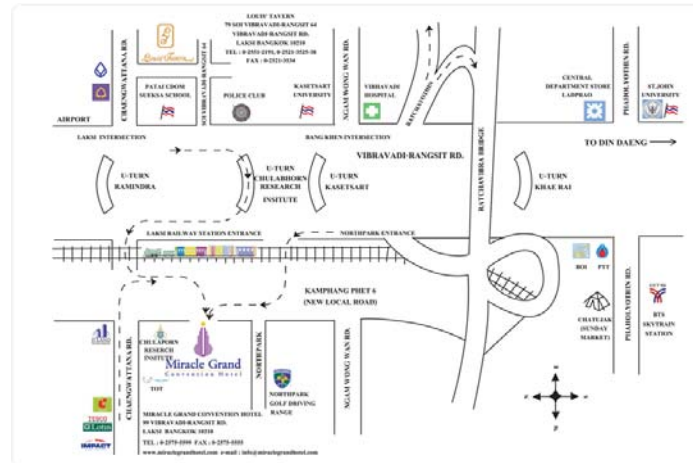


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Technical Seminar Invitation

Gas Insulated Switchgear

Design, Applications and Digitalization

July 27, 2017

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Introduction

A safe, reliable supply of electricity depends on the circuit breakers that protect our electricity grids in the event of short circuits. Traditionally, these circuit breakers, installed in power plants and substations, were air-insulated. Air-insulated switchgear (AIS), depending on the rating, requires a minimum clearance between various active parts and earth in the order of tens of meters, which means a large area is needed to accommodate the installation. As an alternative, gas-insulated switchgear (GIS) are available, allowing the circuit breakers to operate safely within a confined space. A substation using GIS can be one-tenth the size of a conventional AIS substation.

Advantages using GIS at a glance :

SF₆- encapsulation of active parts

- Minimum space requirements
- No influence of pollution & salt fog at coastal regions

High energy efficiency

- Installation at point of power consumption
- Low electrical losses

Low life cycle costs

- Minimum maintenance requirements
- High reliability (reduced outages)

High security level

- Earthquake withstand capability
- Full insulation level at high altitudes

High quality standard

Compact and modular

In this seminar, the participants will be introduced to design and application of GIS which gives information both sub-transmission and transmission. Furthermore the participants will be introduced ABB Digital Substation and Underground Substation and ABB's Monitoring & Diagnosis Systems for GIS and service concept. The participants will also learn about the design and application of these up-to-date monitoring methods through application examples and case studies.

Who should participate ?

Engineers from utilities (EGAT, MEA, PEA, MWA) and SPP, IPP, consultants, EPC contractors, service companies and owner engineers (end user) who deal with GIS.

Agenda

Session Moderators :

- Dr. Channarong Banmongkol, Chulalongkorn University
- Assoc. Prof. Dr. Tanapong Suwanasri, TGGS, King Mongkut's University of Technology, North Bangkok

Time	Topic
08.30 - 09.00	Registration
09.00 - 09.15	Opening Ceremony
09.15 - 09.45	GIS Trends and Technologies Overview Mr. Efe Okur, Global Product Manager, Transmission GIS, ABB Switzerland
09.45 - 10.45	Session 1 Sub-Transmission and Integrated GIS Application (IGA), 69 kV & 115 kV Mr. Rene Bouyer, Area Sales Manager, ABB Germany <ul style="list-style-type: none">• Design Concept• Compartments: Functional Modules & Combination of Modules• Interfaces: Gas to Oil, Gas to Air and Cable Sealing End• Monitoring• Summary of Type Test according to IEC latest version• Application Examples (Overseas & Thailand)
10.45 - 11.00	Coffee break
11.00 - 12.00	Session 2 Transmission GIS : 230 kV & 500 kV Mr. Efe Okur, Global Product Manager, Transmission GIS, ABB Switzerland <ul style="list-style-type: none">• Design Concept• Compartments: Functional Modules & Combination of Modules• Interfaces: Gas to Oil, Gas to Air and Cable Sealing End• Monitoring• Summary of Type Test according to IEC latest version• Application Examples (Overseas & Thailand)

Time	Topic
12.00 - 13.00	Lunch
13.00 - 14.00	Session 3 Digital Substation for GIS S/S Part I : Substation Automation System Mr. Stefan Meier, Product Manager, Digital Substation, ABB Switzerland <ul style="list-style-type: none">• The substation automation system - control, protection and supervision, design, criteria and reference project
14.00 - 14.45	Session 4 Digital Substation for GIS S/S Part II : Substation Design and Engineering Mr. Sten Trolle, Area Sales Manager, ABB Sweden <ul style="list-style-type: none">• The GIS S/S substation design, criteria and reference project
14.45 - 15.00	Coffee break
15.00 - 15.45	Session 5 Underground Substation for GIS S/S Mr. Prashant Mishra, Global Product Group - Territory Sales & Marketing Manager - Asia <ul style="list-style-type: none">• Design, criteria and reference project
15.45 - 16.30	Session 6 Design Concept for Service Continuity in GIS Mr. Efe Okur, Global Product Manager, Transmission GIS, ABB Switzerland
16.30	Closing address