

12 - 14 SEP 2018
GAE **XP** **ERT** **FORUM**
 THE NEW ERA OF TECHNOLOGY | THE NEW ERA OF THINKING

TIME	HALL A	HALL B
Wednesday 12 Sep 2018 08:00 – 09:00	Registration	
09:00 – 09:15	Welcome to GAE	
09:15 – 10:00	Power Harmonic as a Future Risk in Digital Era <i>By Vicky Tanzil (GAE)</i> The invention nonlinear loads technology caused a rapid, vast and dynamic change in future technologies which secretly has blindsided and covered up the negative impact of the invention itself, especially reduced power quality. Harmonic is the one of power quality risk that has drawn as a result of nonlinear load implementation. Therefore, Identifying harmonic plays an important process to reduce the cause major indirect losses and productivities.	
10:00 – 10:30	BREAK	
10:30 – 11:15	HV and EHV Bushing Condition Assessment – Field Experience <i>By Joacim Skoldin (Megger)</i> Bushing diagnostics using Dielectric Frequency Response (DFR) to show how to detect faulty bushings in the field and look at the correlation to oil samples done on the bushings. This shows case studies from the field but is also showing theory and good data collection.	Not That Simple: The Importance of Detune Reactor in Harmonics Blocking <i>By Dewi Istirani (GAE)</i> The traditional method of reactive energy compensation is directly connecting the capacitor banks to the main supply. However, development in modern semiconductor technology has led to a significant increase in the number of nonlinear loads. Unfortunately these nonlinear loads have undesirable effects towards the incoming AC supply. The supply system itself needs to be kept free from the harmonics distortion to prevent such equipment malfunction. Hence, it's becoming the necessities to install a detuned PFC system.
11:15 – 12:00	Evolution of Industrial Communications Technology, Advancing with Adaptive Modulation in Licensed Narrowband <i>By Kevin Soeyanto (GAE)</i> As industrial automation technologies have evolved over time, communication protocols for monitoring and control applications have slowly migrated from legacy serial MODBUS protocol to Ethernet-based protocols, which require higher throughput. Explore the benefits of adaptive modulation (AM) techniques bring to licensed narrowband network, and how they enable higher performance and more robust communication in unpredictable network conditions.	Lighting Control Application in Green Building <i>By Valeria Marwata (GAE)</i> Green building standard has been enforced in nowadays development. One of the standard prerequisite is to install lighting control system. Understanding the main differences in selecting the lighting controls such as motion, presence and twilight sensor are very crucial to achieve maximum comfort and effectiveness.
12:00 – 13:00	LUNCH BREAK	
13:00 – 13:45	Busbar Technology & Application <i>By Roland Walger (Tefelen)</i> Thermal asset monitoring can detect faults in an electrical system before failures and outages occur. Improvements in thermal technology now make it possible to have continuous, automated, thermal monitoring in the substation that provides real-time asset health information directly to SCADA systems and asset management applications.	Grid Enterprise Manager and Improving Data Efficiency <i>By Adam Crabb (GE)</i> Endless streams of data is being collected within substations, how to control, share effectively, display and gather. Sharing a vendor agnostic application allowing all Utility and Industry staff access at the click of a mouse protection fault records, settings, fault locations and disturbances and data automatically retrieved.
13:45 – 14:30	How Does Bi-directional Rectifier Work <i>By Michael Reith (Gustav Klein)</i> Describing the principle of bi-directional rectifier, synchronizing with the mains; the applications and the advantages/disadvantages against conventional rectifier	Individual Temperature Correction (ITC) for Accurate Temperature Compensation <i>By Joacim Skoldin (Megger)</i> Insulation measurements have been done traditionally for a long time. All evaluation criteria are valid only for 20°C and the procedure is to correct the measured value to 20°C to be able to use the assessment criteria. Previous temperature compensation is an average of multiple objects but this method takes the object and condition into account when doing the compensation.
14:30 – 15:00	BREAK	
15:00 – 15:45	Shunt Active Power Filters for Low and High Voltage Applications <i>By Pedro Esteban (Merus)</i> Active power filters (APF) are modern, flexible, high performance and cost-effective solutions that provide an instantaneous and effective response to power quality problems. They enable longer equipment lifetime, higher process reliability, improved power system capacity and stability, and reduced energy losses, complying with most demanding power quality standards and grid codes.	
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Thursday 13 Sep 2018 08:00 – 08:30	Registration	
08:30 – 09:15	Evolution of Distribution Protection Requirements <i>By Krishnakumar Venkataraman (GE)</i> Expectations within Distribution Network growth requiring technology advances at economical levels. Find the expertise from Transmission protection that has been brought to feeder management, line differential and kiosk substations to provide a cornerstone in providing higher reliability.	
09:15 – 10:00	Safeguarding Industrial Control <i>By Chia Gim Koon (Belden)</i> The emergence of ICS-specific malware, how it's being used to infiltrate industrial environments, and how to defend ICS network & critical assets to prevent disruption	
10:00 – 10:30	BREAK	
10:30 – 11:15	Digital Sensor Technologies for Modern Power Generation and Substations <i>By Dr. Tim Dubbs (Lumasense)</i> Exploring the use of Thermal Imaging, Pyrometry, Dissolved Gas Analysis, and Fiber Optic sensors to provide continuous monitoring of today's modern substation and power generation facilities. These technologies can improve system efficiency, safety and operational awareness.	Uninterrupted Power Quality Systems for Low and High Voltage Applications <i>By Pedro Esteban (Merus)</i> Momentary interruptions or disturbances could damage sensitive electrical equipment and cause stoppages of manufacturing processes or even of the generation and supply of energy. UPQ systems are an innovative and cost-effective solution for power supply interruptions and other power quality problems.
11:15 – 12:00	Improving Substation Reliability With Automated Thermal Asset Monitoring <i>By Richard Harada (SWI)</i> Thermal asset monitoring can detect faults in an electrical system before failures and outages occur. Improvements in thermal technology now make it possible to have continuous, automated, thermal monitoring in the substation that provides real-time asset health information directly to SCADA systems and asset management applications.	Five Main Reasons Using Steel Conduit Pipes <i>By Andy Arifman (GAE)</i> What makes steel conduit still reliable with your daily project, are all steel conduit pipe offer the same quality, and why we still have to use steel conduit pipes?
12:00 – 13:00	LUNCH BREAK	
13:00 – 13:45	Intergrating IoT and Industry 4.0 by Using GAEnergy Monitoring System (GEn) to Outsmart Energy Cost <i>By Okan Kolcuoglu (Klemsan)</i> Since energy cost is considered as one of the biggest variable cost, Energy Monitoring System has been a well-known solution to monitor and control the energy. Introducing GAE Energy as Internet of Object platform which integrating IoT and Industry 4.0 platform to manage all process such ad production, assembly, test and quality control process.	On Grid Photovoltaic System <i>By Iskandar Gani (GAE)</i> IPP program for ground base installation and roof top installation in industrial, commercial and residential with revenue energy meter.
13:45 – 14:30	Smart Pump in Industrial Application <i>By Andri Hadipurnama (Torishima Guna)</i> Recent technology in Pump Monitoring System by using IoT (Internet of Things) infrastructure, making the monitoring activities simple and real time	Battery Energy Storage in Germany <i>By Michael Reith (Gustav Klein)</i> "Swarm Storage Allgäu," an example of showing multi-purpose use-cases for distributed grid-size battery storage systems
14:30 – 15:00	BREAK	
15:00 – 15:45	Savings from Technology Not in The Box <i>By Krishnakumar Venkataraman (GE)</i> Sophisticated economical secondary systems can now provide information for Asset Managers on critical plant within a Network. Smart utilization by accurately predicating issues and proactive maintenance can reduce downtime, repairs or replacement of a motor, generator and transformers where costs are enormous in comparison.	
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TIME	GE	MEGGER
Friday 14 Sep 2018	Product Update and User Discussion	Product Update and User Discussion
08:00 – 08:30	Registration	
08:30 – 11:30	Transmission Relay Distribution Relay Industrial Relay	Transformer Test Circuit Breaker Test Battery Test
11:30 – 13:30	Friday Prayer and Lunch Break	Friday Prayer and Lunch Break
13:30 – 15:00	Hands on Live Demo: Testing Busbar Protection Using Multi Current Output Relay Test Set	Hands on: Delta 4000 TM 1800 Sverker 900 MRCT

TIME	FACTORY TOUR
Friday 14 Sep 2018	Explore GAE's capability in mechanical and electrical manufacturing and engineering including switchgears, metal sheet forming, pumps & pump systems, repair and turbo machinery services.
06:30 – 06:45	Registration at GAE Building
06:45 – 09:30	Bus departs to Cikarang
09:30 – 11:30	Mechanical & Electrical Workshop
11:30 – 13:30	Friday Prayer and Lunch Break
13:30 – 15:15	Pumps and Turbomachinery Workshop
15:15 – 17:00	Back to GAE, Jakarta

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