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KLESJAYA & KOMIPO Collaboration

KLESJAYA, a member of TEEAM, is now in mutual collaboration with KOMIPO (Korea Midland Power Co., Ltd) with a view to provide their Malaysia office, as the operating base for promoting Korean SMEs' exports to the Malaysian market. ASEAN countries including Malaysia are actively promoting foreign investment and economic co-operation efforts. These pro-active business-centric initiatives are attracting the attention of Korean companies. KOMIPO, the representative energy company in Korea, and many other Korean SMEs, are pro-actively seeking potential business opportunities and co-operation with SMEs in the Malaysian power industry playing field.

24th February 2017 was a truly auspicious day for this win-win collaboration as it officially marked the appointment of KLESJAYA as KOMIPO-Cheonghaejin's Regional Representative Office, to promote Korean SMEs' products to the Malaysian power industry market. Through this smart collaboration, KLESJAYA hopes to contribute to the mutual co-operation between Malaysian and Korean power

companies, by building a very strong biz'-focused bridge for them.

The Appointment Ceremony started with the Congratulatory Message being delivered by Mr Chung Changkil, the KOMIPO CEO who promised extending support for the co-operation between Korean SMEs and Malaysian companies.

Mr Subramaniam Karuppan, TEEAM Vice President, was present at the Appointment Ceremony to show TEEAM's support and commitment for a win-win co-operation between participating Malaysian and Korean companies. He gave a brief introduction about TEEAM, its membership and activities.

Dr Cheong Kam Hoong, former TNBR Managing Director, was also present to share his experiences with the visiting Korean companies. Dr Cheong who has retired from TNBR, was later presented with an appreciation plaque by KLESJAYA, to thank him for his sincere dedication and contribution to the industry.

The event successfully capped off with a group photo session.



Win-win co-operation – KLESJAYA, KOMIPO, TEEAM and the Korean SMEs.



Networking – (from left) Dr Cheong Kam Hoong (Former TNBR MD), Mr Chung Changkil (KOMIPO CEO), Mr Subramaniam Karuppan (TEEAM Vice President) and Dr Cho Sunyoung (KLESJAYA CEO).



Dr Cheong Kam Hoong – Former TNBR Managing Director sharing his vast industry experience.



Introduction to TEEAM – Mr Subramaniam Karuppan (TEEAM Vice President) briefing the Korean delegates.



Cheese! – Group photo to cap off the session.

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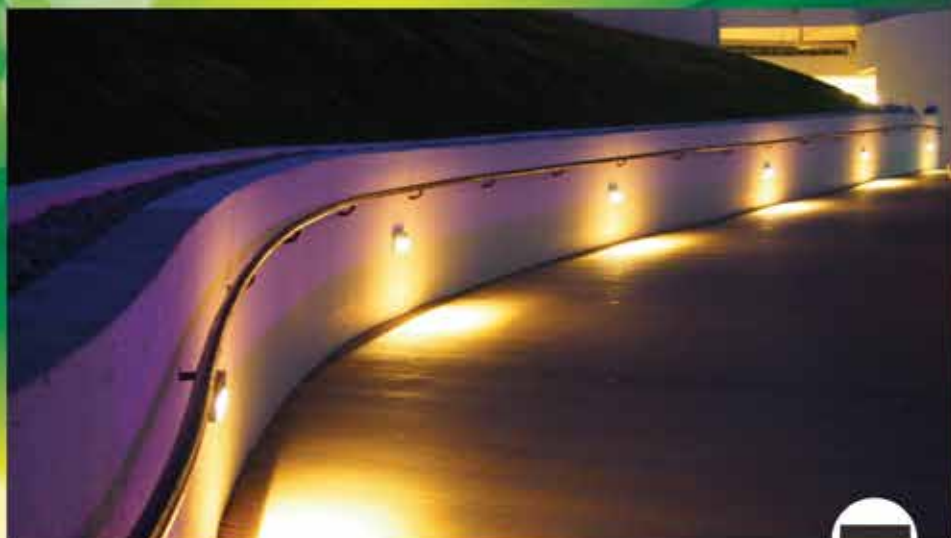
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Ecobuild SEA at ICW 2017

The fifth edition of Ecobuild Southeast Asia (SEA) 2017 was held at the Kuala Lumpur Convention Centre in Malaysia from 12th to 14th April 2017 in conjunction with the seventeen edition of the International Construction Week (ICW), the region's largest trade show for the construction industry. The 3-day exhibition was organised by United Business Media (M) Sdn Bhd (UBM) and was hosted by the Construction Industry Development Board (CIDB) Malaysia with the theme "Towards Enhancing Quality and Safety in Construction". It was co-located with the Construction Career Fair and ASEAN Solar 2017.

Ecobuild SEA received strong support from numerous government ministries and leading industry associations including TEEAM. The exhibition provided an excellent platform for a wide range of visitor groups ranging from government procurers, wholesalers, architects,

contractors and consultants, to meet with world-renowned companies and also explore lucrative opportunities in the construction market. Apart from the exhibition, Ecobuild SEA featured more than 60 free-to-attend seminars presented by industry experts, innovators and practitioners. The seminar topics included quality, safety, and professionalism as well as environmental sustainability, productivity and internationalisation. Ir Lim Kim Ten, TEEAM Council Member and Education & Training Chairman was invited to speak on "Electrical Installation Design for Hospitals". Overall, it was a fruitful trade event at Ecobuild SEA 2017.

Ecobuild SEA 2018 will take place from 27th to 29th March 2018 at the Kuala Lumpur Convention Centre. For more information, please visit www.ecobuildsea.com.



Ribbon cutting – Official launch by (2nd from right) YB Dato' Sri Haji Fadillah Haji Yusof, Minister of Works, Malaysia.



Good turnout – Strong support from the industry.



Ir Lim Kim Ten – TEEAM Council Member and Education & Training Chairman presented a paper on 'Electrical Installation Design for Hospitals' at the Ecobuild Seminar.



At the Exhibition – (from left) Ir Chang Yew Cheong (TEEAM Vice President), Mr Suresh Kumar Gorasia (TEEAM International Affairs Chairman & Past President), Tan Sri Dr Ir Ahmad Tajuddin Ali (CIDB Chairman) and Ir Yong Ah Huat (TEEAM Deputy President).



Support – Members of PKPPE Perak visiting TEEAM booth. They were warmly welcomed by (far left) Mr Suresh Kumar Gorasia (TEEAM International Affairs Chairman & Past President).



Networking – (from left) Ms Winnie Khong (TEEAM Executive Secretary), Mr Suresh Kumar Gorasia (TEEAM International Affairs Chairman & Past President), Ms Elina Jani (CEO of GreenTech Ideas Lab) and Mr Alun Jones (GM of UBM-MES).



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Schneider Electro-Safety Campaign Launch 2017

On 10th January 2017, Schneider Electric launched the Electro-Safety Campaign in collaboration with the Energy Commission (ST) and TEEAM at Hilton Petaling Jaya, Selangor with a view to raise awareness on electrical safety at home. The Public Service Campaign aimed to educate the general public regarding the importance of implementing the right electrical protection and safety products, in order to reduce the extent of electric shock injuries, seeing how common these occurrences have become nowadays.

According to the Enforcement and Regional Coordination Department of ST, thirteen cases of electrical accidents with seven deaths were reported in 2015. In 2014, the number of electrical accidents recorded and investigated by ST were 63 cases, of which 27 were fatal and 36 non-fatal cases.

As part of the safety first campaign, Schneider Electric introduced the Residual Current Circuit Breaker (RCCB) with overcurrent protection (RCBO) that helps to protect and switch power off immediately when it detects an electric shock situation. The RCCB only provides safety against electrocution whilst the RCBO is a combination of a Miniature Circuit Breaker (MCB) and RCCB in one device that serves as protection against short circuits, overload and electrocution due to leakage. With the implementation of such safety devices, it helps to improve and make our home a much safer and better place

to live in. The RCBO is part of Schneider Electric's Easy 9 range of new generation circuit breakers.

Schneider Electric will be introducing the Schneider Electrician Programme in the next few months as an extension of its Electro-Safety Campaign. The noble purpose of this timely programme is to recruit and train electricians to undertake the Construction, Maintenance, Design, Verification, Inspection and Testing of electrical installations and keep the electricians up-to-date with new products and regulations under four key pillars which include: Recruit, Reward, Certify and Refer. Schneider Electric aims to have the electricians certified by 2018.



RCBO Installation Workshop – Mr Mazliazhar Abdul Latif of Schneider further explained on the grave importance of electrical safety at home, to the attentive audience.



Souvenir presentation – (2nd from left) Mr Soo Pow Leong (Schneider Country President of Malaysia) presented a token of appreciation to (3rd from left) Ir Chew Shee Fuee KMN (TEEAM President) and (right) Mr Mohd Elmi Anas (ST Director of Electrical Safety Regulation). With them is Mr Mazliazhar Abdul Latif (Schneider Senior Product Marketing Engineer).



Support – TEEAM President, Ir Chew Shee Fuee KMN was invited to the campaign launch and delivered his official speech.



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Members of TEEAM at EcoBuild SEA 2017



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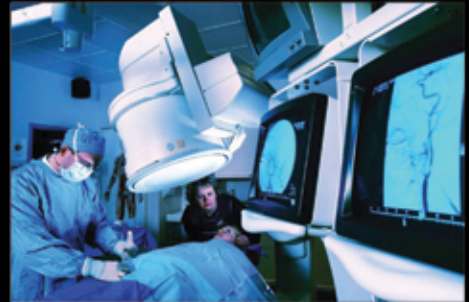


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State Associations News



Sabah Electrical Association

Lot No. 3-3-R, Beverly Hills Plaza, Jalan Bundusan,
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Briefing on Task Force “OPS SECURE”

A briefing on Task Force “OPS Secure” was held at the office of Sabah Electrical Association (PES) on 4th November 2016 to benefit all PES members. The briefing was presented by Mr Mohd Zin Samsuri and Mr Burhanuddin Md Aliuddin from Task Force TNB-SESB. It was a fast-track project which comprised two phases and was supposed to be completed within a six-month period. The first phase included repairing work and replacing worn-out cables. The second phase entailed the development and upgrading system aspects, which involved the installation of underground cables and sub-station works. At least twenty PES members attended the briefing.



Group photo – PES and SESB officials posing with all participants.

On 18th November 2016, a further follow-up briefing was held at Wisma SESB, Kota Kinabalu. This briefing was opened to all contractors in Sabah. They were requested to prepare and submit their Company’s profile for the project. Most of the PES members were present.



Attentive participants – Follow-up briefing at Wisma SESB.

Visit to Kolej Technical Yayasan Sabah (KTYS)

PES visited KTYS on 15th December 2016 with the purpose of discussing opportunity and collaboration between PES and KYTS.



Token of appreciation – (3rd from left) PES President, Mr Bunny Teh presenting a souvenir to KTYS.

Both parties decided to establish a win-win partnership by signing an MOU for co-operation in the near future. Representing PES were its President, Mr Bunny Teh and Vice President, Mr Aldrin Wong.

TAM 20th Anniversary Dinner

PES was invited to attend the Technological Association of Malaysia’s (TAM) 20th Anniversary Dinner on 21st January 2017 at the Palace Hotel, Kota Kinabalu. TAM is an organisation for all levels and disciplines of technologists comprising professionals, students and everyone else whose career is technologically-based in nature. On that auspicious night, TAM and PES signed an MOU to establish basic win-win co-operation and collaboration initiatives between both parties.

PES President, Mr Bunny Teh and First Lady; Vice President, Mr Aldrin Wong and spouse; Committee Member, Mr Shah Fareed and spouse plus PES Staff were present at the dinner.



MOU Signing Ceremony – PES and TAM establishing a win-win collaboration.

Electric Fun Run 2017

With the theme, “Siapa Lambat Kena Kanan”, PES successfully organised the Electric Fun Run 2017 with the assistance of event Organiser, MS Sports & Event Organiser. This 11km run took place at KDCA Penampang and received a whopping 330 participants from all around Malaysia. They contested in six different categories which were the Men’s & Women’s Open, Men’s & Women’s Veteran and also Junior Male and Female categories.



Caring society – A CSR charity programme for the Sabah Cheshire Home.

Wincentbert Latius received the title of winner for the Men’s Open category. The title for Women’s Open went to Hyenie Roslin Damus. Ruston Masri won the Men’s Veteran title while the winner for the Women’s Veteran title went to Kona Liau. The Junior Male title went to Mohd Faizal Rahmatullah while that of Junior Female went to Eristiana Joel.

Suzanne Juis won the Grand Lucky Draw prize which was a cool SYM Scooter 125cc. Other Lucky Draw prizes included three units of Acer Laptops, two units of Suunto Sports Watches, two units of Garmin Sports Watches, 32” and 40” LED TVs, some electrical goods and 50 packs of 5kg per pack rice. The uncollected rice packs were donated on the same day to the Sabah Cheshire Home, Kota Kinabalu as charity.



Overwhelming event – A group photo taken before the event.

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PES 20th AGM

The 20th Annual General Meeting (AGM) of PES was held on 25th March 2017 at the PES Office in Kota Kinabalu. During the AGM, Academic Excellence Awards were presented by its President, Mr Bunny Teh in the company of PES Treasurer, Datuk Hj Mohamed Zulfikar Ahmad. There were six recipients for this term comprising PES members' children. A total of 30 PES members attended the AGM. The meeting successfully capped off with a buffet luncheon.



Well done! – (centre) Mr Bunny Teh (PES President) presenting an award to one of the members' children. With him is PES Treasurer, Datuk Hj Mohamed Zulfikar.

Johor Bahru Electrical & Electronics Association



No. 7-01, Jalan Bentara Luar, Taman Iskandar,
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Mount Kinabalu Expedition

The Johor Bahru Electrical & Electronics Association (JBEEA) organised an expedition to Mount Kinabalu from 26th to 29th March 2017. Mr Wong Jiunn Shyong (JBEEA Vice Chairman) led a 12-member team to take on the challenging hike. The arduous and mentally plus physically taxing hike, took them two days and one night to complete. The team put up a night at the Base Camp of Laban Rata before attempting to continue to the summit at 2.30 am. They finally reached the summit at 6.30 am on the next day! However, only six successfully made it to the summit which is located 4,095m above sea level. It was truly a rewarding experience of a lifetime for all the hikers – for their willingness to participate in this exciting mountain-climbing expedition.



We finally made it, Wowee! – Six members made it to the summit after 2 days of tiring hike.



On Your Mark, Get Set, GO! – The 12-member team of JBEEA, ready to take on the hike challenge.

Visit to EPRE 2017

JBEEA Chairman, Mr Lee Chee Boon, together with JBEEA Secretary, Mr Kelvin Yap, attended the TEEAM Council Meeting on 17th March 2017 at the Kuala Lumpur Convention Centre. They also took the opportunity to visit the EPRE exhibition booths, to look out for new innovations and the latest technologies on display.



All smiles from KL Convention Centre – (from left) Mr How Chee Seng (TEEAM Council Member), Mr Lee Chee Boon (JBEEA Chairman) and Mr Kelvin Yap (JBEEA Secretary) during the TEEAM Council Meeting.



EPRE 2017 – (from left) Mr Kelvin Yap (JBEEA Secretary), Mr Lee Chee Boon (JBEEA Chairman) and Mr Nick Liew (PKPPE Vice Secretary).

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PKPPE at PERDA Charity Shield Dinner

The Perak Electrical & Radio Dealers' Association (PERDA) hosted their 3rd Charity Shield Dinner at the Unique Seafood Restaurant, Ipoh on 17th December 2016. Persatuan Kekompetenan Penjaga Jentera & Pendawai Elektrik Perak (The Perak Electrical Chargeman & Wireman Competence Association – PKPPE) attended the dinner at the invitation of PERDA. PKPPE President, Mr Choong Soon Yean and his Committee were present to show their full support for the auspicious occasion.

Six welfare organisations benefited from the Charity Shield Dinner. They were the PMA Chan Meng Khor Dialysis Centre, Klinik Choong Wah Perak, The Perak Thalassaemia Society, Ipoh Love & Care Society, Teng Choon Haw Association for the Disabled and Persatuan Memperbaiki Akhlak (Moral Uplifting Society) Che Tan Khor.

The night was filled with laughter and whoops of excitement. There were delicious food, amazing cocktails, DJs filling the air with live music and joyful singing. The Charity Dinner successfully drew a grand crowd of over 900 members and guests – indeed a record-breaking highly impressive turnout!



PERDA Charity Dinner – PKPPE Officials were present to show their full support.

Seminar on Electricity Supply Application

A Seminar on “Electricity Supply Application Guide from TNB for Development Projects”, was organised by the Institution of Engineers, Malaysia (Perak Branch) on 17th January 2017 at the Tower Regency Hotel & Apartments, Ipoh. PKPPE members participated in this important seminar to get first-hand information as TNB had recently established more rules and new regulations to be complied with by different parties, in order for them to obtain electricity supply to their premises. Therefore, as a full-fledged Competence Association, it is essential for PKPPE to update its members regarding the latest developments in the industry.

The value-adding contents of the seminar included: Supply application for various load demands, Connection guidelines regarding planning, Design criteria, Provision of sub-station building requirements, Metering system and the Self-Service Portal (SSP).

The Keynote Speech was delivered by the General Manager of TNB Perak, YM Dato' Raja Abd Jalil Bin Raja Zaid. The other TNB Speakers were Mr Durai Retnam Aruchandran (Senior Engineer), Ir Noor Adnan Bin Abdul Aziz (Professional Engineer), Che Kamariah Binti Che Isa (Senior State Planner for the 33kV Phase) and Mr Mohd Aiman Sufyan Bin Abdul Raza who has been appointed as the TNB Subject Matter Expert for the newly-launched TNB Self Service Portal (TNB SSP).

The seminar was a fruitful one as it provided opportunities for PKPPE members to clear their doubts. There was an interactive questions and answers session. PKPPE members gained a lot of useful information from this seminar.



Seminar in progress – A good turnout.



One for the album – Group photo after the seminar

SIRIM WG on Household Heating Appliances

PKPPE is honoured to have been invited by SIRIM in order to be involved in the Working Group (WG) on Household Heating Appliances. Other WG members who participated were Mr Tee Tone Vei (Chairman), UiTM, SIRIM QAS International, Panasonic Engineering Department, Suruhanjaya Tenaga (Energy Commission), KHIND Industries, USPMA, Universiti Malaya, Alpha Electric, Maxvic, Joven and TNB.

The main agenda was the discussion on the revision of MS 1597-2-21 and MS 1597-2-35. The major items under MS 1597-2-21 are the pressure relief valve and the thermo cut-out equipment. These two are the main items that will create a significant impact to the heating appliances. As for MS 1597-2-35, the discussion was focused on the need for a built-in RCCB, a built-in isolation barrier, cable size, pre-fitted cable, etc.

This is the first time PKPPE is involved in a SIRIM WG event. PKPPE found it very meaningful and appreciates the opportunity to learn from the experts in the field. PKPPE is looking forward to contributing more to the WG meeting in future so as to enhance the existing standards.

Presentation on VD and VI RCCBs

On 22th February 2017, PKPPE was invited by the Suruhanjaya Tenaga (Energy Commission - ST) to give a presentation on the difference between Voltage Dependent (VD) RCCBs and Voltage Independent (VI) RCCBs. Mr Mohd Elmi Bin Anas, Director of ST Electrical Safety Regulation and his Officials were also present. The presentation team from PKPPE comprised Mr Choong Soon Yean (President), Mr Yong Chee Choong (Deputy President), Mr Chew Kam Hoong (Treasurer), Mr Nick Liew Kar Hoe (Vice Secretary), Mr Stanley Wong Chen Yu and Mr Tony Leong Kwong How (Committee Members).

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The main reason for the presentation was to distinguish the difference between VI and VD RCCBs. A few brands from the local market were tested during the demo session. The presentation team also conducted the Neutral Pole Test (First-In-Last-Out, FILO) and Discrimination Cascading Test. By performing these two tests, they will assist in the proper selection and erection of RCCBs.

The whole session was an exciting one with the mutual exchange of ideas. Mr Mohd Elmi and his team gave valuable ideas on the enhancement of the testing procedures.



Demo gadgets – Testing equipment and the RCCBs.



Highly attentive – Mr Chew Kam Hoong & Mr Nick Liew Kar Hoe of PKPPE conducting the demo.



For the album – Group photo to cap off the session.

Trip to LELCO Group Manufacturing, Indonesia

For the first time ever, an overseas company officially invited PKPPE for a factory visit from 3rd to 5th March 2017. The LELCO group, based in Indonesia, is a market leader in the electrical and lighting industries. They provide complete professional lighting and electrical solutions, integrating their products and offering their customers individual turnkey solutions that fulfill their customers' specific needs. In addition to that, LELCO is also an Original Equipment Manufacturer (OEM) for Terasaki.

The 30-members delegation consisted of PKPPE Committees, members, consultants, distributors and manufacturers. Upon arrival

at the factory site, Mr Oei Hironemus Utari (Founder and Chairman of the LELCO Group) welcomed the delegation and he was humble enough to personally lead the factory visit.

The delegation learned about the making processes of PVC pipes, switches, light fittings and also regarding the quality control for testing facilities on the finished products of breakers.

One of the special points about LELCO is that they can do architectural light designs and also create new designs for switches in accordance with the customers' specific requirements. Their test laboratory for breaker is designed to Terasaki's stringent industry standards, having a comprehensive test laboratory and employing high quality control procedures.

In conclusion, the technical factory visit was very fruitful, whereby PKPPE members gained a lot of useful information and technical knowledge.



Exciting visit – Group photo at the LELCO Building (Roof Level).



Mission accomplished – Group photo at the LELCO factory lobby.

Press Conference on Electrical Safety

A Press Conference on Electrical Safety was organised by PKPPE with the Sin Chew (Perak) Press, on 8th March 2017 at the Ban Guan Lee Hardware Electric headquarters. It was attended by Mr Hasanol (Executive of Energy Commission, Perak), Mr Tee Tone Vei (SIRIM Household Appliances Expert Committee and Chairman of SIRIM TC61 WG2), Mr Choo Wei Seng (SIRIM Household Appliances Expert Committee and SIRIM TC61 WG2 Member), Mr Fong See Ni (Executive Director of Mikro MSC Bhd), Mr Khaw Chin Hong and Mr Khaw Yee Kuan (Ban Guan Lee Owners), Mr Choong Soon Yean (PKPPE President), Mr Yong Chee Choong (PKPPE Deputy-President), Mr Chew Kam Hoong (PKPPE Treasurer), Mr Nick Liew Kar Hoe (PKPPE Vice-Secretary), Mr Tony Leong Kwong Hoe (PKPPE Committee Member) and others.

Mr Tee Tone Vei highlighted to the Press that there were nine electrocution cases related to water heaters that had occurred in the past seven years. He pointed out that the actual facts about these incidents was actually caused by "Electrocution VIA The Water Heater" instead of "Electrocution BY The Water Heater". The investigations showed that no leakage was found from the water heaters. The fatal electric shocks were actually caused by either the failure of the life-saving devices (RCD/RCCB), or the victim came



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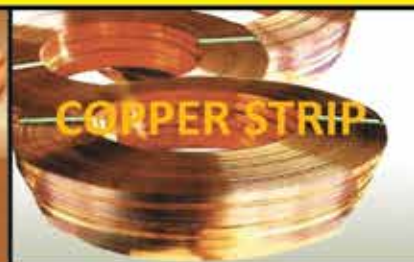
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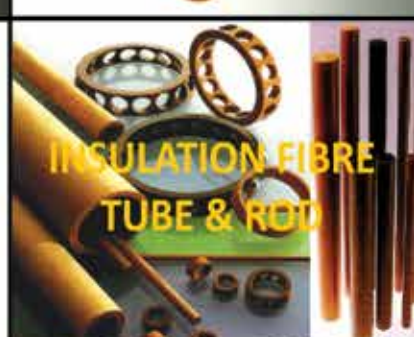


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into contact with an electrically-energised metallic shower outlet hose that was attached to a water heater.

A few suggestions were given by Mr Tee, in order to avoid future tragedies. These include 1) The user should check the function of the RCD/RCCB at regular intervals. 2) Avoid using plug and socket to supply power to the water heater 3) Ensure that the bathroom connection is covered by a splash-proof connector. 4) Ensure only non-conductive plastic flexible hoses (longer than 1 meter) are used for Instant Water Heaters. 5) An isolation barrier must be fitted (inlet and outlet) on the Storage Water Heater. Most importantly, ensure home earthing is always properly and effectively connected.

Mr Choo Wei Seng explained that the explosion of water heaters is mainly involves the Electrical Storage Water Heaters or the Solar Water Heaters categories. The main cause of the water heater explosions was due to the thermostat, temperature limiter (thermal cut-out) and pressure relief valve failures. In one of the previous cases, the pressure relief valve's discharge connection, which was supposed to be opened at all times, was found to have been connected to the stop valve which was in a closed-position.

Due to the consequences of leakage currents being fatal and the affected person has no way whatsoever to know or to be aware that his or her own power supply system has a problem, Mr Fong proposed a simple solution to overcome this problem. It entails using the operation of a multi-functional intelligent detection device, which can be used to (1) detect whether the ground operation is normal, (2) to detect whether the ground is connected, (3) to detect live and neutral cables and (4) to prevent external over-voltage conditions. Additionally, house owners must be reminded to self-test their RCCBs every 3 months.



Attentive – Mr Tee Tone Vei (seated 2nd from right) and Mr Choo Wei Seng (right) enlightening the Members of the Press.



For safety – Mr Fong See Ni giving explanations on a detection device operation.



For the album – Group photo to cap off the electrical safety session.

PKPPE AGM 2017

PKPPE successfully held its Annual General Meeting (AGM) on 11th March 2017. It was an inaugural AGM held at the PKPPE premises.

PKPPE President, Mr Choong Soon Yean expressed his appreciation to members for taking time-off to attend this important meeting. He shared with members on the on-going PKPPE activities and he hoped that members would be more active in participating in future activities. He highlighted that PKPPE's working together on the Touch Point Programme with the Energy Commission of Perak was really very encouraging. A total of eighteen premises have since benefited from this programme. It involved the replacement of obsolete ELCBs with modern day RCCBs.

The general meeting approved the minutes of the previous AGM. The Secretary, Mr Wong Seak Wai, presented the Annual Report 2016 on the PKPPE activities which were carried out. The Audited Annual Accounts for the year 2016 was then presented by the Treasurer, Mr Chew Kam Hoong. Both documents were duly adopted in the AGM. The members gave valuable suggestions such as asking for more charity events to be organised, working closer with the relevant authorities and organising more technical seminars. The PKPPE Committee took note of all the afore-mentioned valuable suggestions from its members.



AGM in progress – A good turnout.

Hands-on Training for Fibre Optics Termination

A hands-on training session for Fibre Optics Termination was held on 15th March 2017 at the PKPPE premises. A Technical Specialist from Advance Network Solution guided PKPPE members on the tools needed, cable measurements, cable-cutting, cable-cleaning and some other preparation and termination processes plus techniques for terminating fibre optic connectors. The members later had hands-on experience on those termination and connection processes. It was a very good exposure for the PKPPE members in attendance.

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Hands-On session – Participants engrossed in their practical work.



For the album – Group photo after the Fibre Optics Termination training.

Factory Visit to Mega Kabel Sdn Bhd

On 22nd April 2017, an official factory visit was organised by PKPPE to Mega Kabel Sdn Bhd in Ulu Tiram, Johor. PKPPE members were introduced to the cable manufacturing processes from raw materials to the final products, various built in quality check points along the production phases, testing performed on the final products, and the prevailing sub-standard cables which are still being used in the market. Mr Mohd Faiz Bin Ramis, Fire Forensics Officer of Jabatan Bomba dan Penyelamat Malaysia (Fire Department, Malaysia), was present to speak on electrical fire safety precautionary and preventative measures.

A Press Conference was also held during the visit to educate the public about sub-standard cables, the risk and consequence of using sub-standard cables and to advise the public to purchase cables with SIRIM's approval.



Souvenir presentation – (from right) Mr Khaw Yee Kuan (PKPPE Honorary President), Mr Yong Hieng Charn (PKPPE Honorary President), Mr Melvin Yong (Mega Kabel Business Development Director) and Mr Choong Soon Yean (PKPPE President).



Highly attentive participants – Video presentation and briefing.

At the end of the visit, PKPPE members had an in-depth knowledge of wires and cables manufacturing. They were able to identify the various wires and cables currently available in the marketplace and their different applications including limitations in terms of voltage and current capacities. Armed with the latest market information, PKPPE members will be able to select the proper wires and cables in their design and installation choices.



After the Press Conference – Group photo of PKPPE members with Mega Kabel Top Management.



Saying 'Cheese'! – Group photo to cap off the fruitful factory visit.



Penang Electrical Merchants' Association

No. 171A, Malacca Street, 10400 Penang.
Tel: +604 - 229 0195 Fax: +604 - 228 4233
E-mail: pema_pg@yahoo.com Website: www.pema.org.my

Courtesy Visit to TNB, Penang

On 15th February 2017, an 11-member delegation led by PEMA President, Mr Khaw Tatt Siew, paid a courtesy visit to Dato Lim Yew Soon, TNB General Manager, Penang. Issues of mutual interests were discussed and TNB helped to resolve some of the problems faced by PEMA contractor members. The visit concluded with the presentation of souvenirs by TNB to the PEMA delegation. It was a truly fruitful visit.



For the album – A group photo taken at the end of the visit.



Engrossed in discussion – Important issues were highlighted at the meeting.

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69th PEMA AGM

The Penang Electrical Merchants' Association's (PEMA's) 69th Annual General Meeting (AGM) was successfully convened at the Association's premises on 16th April 2017. In his opening address, PEMA President, Mr Khaw Tatt Siew informed that as they enter into the era of advanced technology and globalisation, PEMA would strive to help its members to face the many challenges posed by technological advances, global competition and the continuous upgrading of the electrical industries' services. As a responsible non-profit organisation, they would continue to organise activities not only to improve on their financial standing but also to look for newer avenues that will enhance efficiency and opportunities for PEMA members in their respective businesses.

The minutes of the previous AGM was duly confirmed by the members at the Meeting. This was followed by the tabling of the Annual Report on activities conducted during the year 2016. It was tabled by the Honorary Secretary, Ir Lee Weng Keen. The Honorary Treasurer, Mr Tang Keem Hoong tabled the Audited Accounts for the year ended 31st December 2016. Both the Annual Report 2016 and the Audited Account 2016 were duly adopted by the members during the AGM.

In his closing remarks, Mr Khaw conveyed his heartiest thanks to everyone present for their precious time and continuous support. The meeting concluded with a sumptuous buffet lunch for all attendees.

PEMA-Hager Joint Seminar on Circuit Breakers

PEMA and Hager co-organised a 1-day Seminar on Circuit Breakers on 28th March 2017 at the Vistana Hotel in Penang. The joint seminar was organised to promote more efficient usage of energy in various applications in different industries. The Speaker was Mr Dahari Mat Siran from Hager. He spoke at length on circuit breaker standards, which is the IEC 60898 and IEC 60947-2.

The seminar was approved with BEM CPD/PDP hours and CIDB CCD points for all participants. It tremendously benefited electrical contractors, consultants, engineers, competent personnel and facility managers who were in attendance.



A good turnout – Group photo of the PEMA Council and the 40-odd participants.



For the album – (from left) Mr Khaw Tatt Siew (PEMA President), seminar speaker, Mr Dahari Mat Siran from Hager and Ir Lee Weng Keen (PEMA Honorary Secretary).



Electrical Association of Sarawak & Sabah

No. 2A/F, 2nd Floor, Hardin Road, 96000 Sibul, Sarawak.

Tel: +6084-319 949 Fax: +6084-325 112, 346 114

E-mail: sibuccci@gmail.com

Electrical Wiremen G2 Course

The on-going programme of Electrical Wiremen Grade 2 (G2) Course which is co-organised by the Electrical Association of Sarawak & Sabah (EASS) together with the University College of Technology Sarawak (UCTS) and the Electrical Inspectorate Unit (EIU), is now in its practical stage. This part-time skills-based training programme started last December 2016 and successfully attracted some 33 participants. The participants had completed 32 hours of electrical theory classes. This will be followed by practical training as a pre-requisite to sit for the Examination in order to get their Competence Certificates.

Proper wiring is extremely important to avoid any untoward incidents such as fires and short circuits from occurring. EASS is proud of such win-win collaborations to conduct this Wiremen G2 training programme as many development projects require such crucial electrical wiring skills. EASS is also pro-actively planning to organise Chargeman Courses as a value-added service in the near future.



Hands-On – Trainees learning the proper wiring installations.

Visit to Perth, Australia

Mr Hii Hua Chuon, Chairman of EASS, together with his Committee and Members, organised a visit to Perth, Australia. The delegation paid a visit to former EASS member, Ir Steven Lee and former Electrical Engineers of SESCO Sarawak; Ir Peter Ting Tieu Soon and Ir Poh Hock Yoon. The three of them shared with the EASS delegates on electrical power engineering technology aspects, especially power transmission in developed countries such as Australia and others. Overall, it was a fruitful visit for all.



Memorable visit – A group photo of the EASS delegation with (seated from extreme left) Ir Steven Lee (Senior Electrical Engineer), (seated extreme right) Ir Poh Hock Yoon and (2nd from right) Ir Peter Ting (both are former SESCO Engineers). Seated 3rd from right is Mr Hii Hua Chuon (EASS Chairman).

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E-mail: multipower99@gmail.com/peaipoh@gmail.com

CNY Open House

A reunion open house to celebrate the Chinese New Year (CNY) and Spring Festival was organised by the Perak Electrical Association (PEA) on 30th January 2017. The turn-up for the joyous occasions and celebrations was overwhelming. PEA members and guests were treated to a wide variety of delicious dishes. They certainly enjoyed the captivating lion dances too. It also proved to be a good networking gathering of like-minded businesspreneurs.



"Gong Xi Fa Cai" – PEA members & guests ushering the Chinese New Year.



Lion Dance – Symbolic Lion Dance for business prosperity.

Charitable Cause

PEA Committee Members visited several charitable organisations during the CNY festive season. On 4th February 2017, they cheerfully handed out well-wishes, gave "Ang Pau"s and eight units of wheelchairs for inmates of an Old Folks' Home and to a Dialysis Centre.



Warm heart – Mr Chan Kaim Sam (PEA President) presenting "Ang Pau" to a dialysis centre inmate.



Good cause – PEA donated wheelchairs to an old folks' home.

AGM 2017

The PEA Annual General Meeting (AGM) 2017 was held on 26th March 2017 at the PEA premises. In the AGM, the meeting approved the premises' renovation budget expenditures. The new design for the future PEA premises is as shown in the photo below.



PEA Building – Future external new look.



Impressive – Design for new office interior.



Sarawak Electrical Association

Lot 412, (2nd Floor), Lorong 11D,
Off Jalan Ang Cheng Ho, 93700 Kuching, Sarawak.
P. O. Box 1494, 93730 Kuching, Sarawak.
Tel: +6082 - 346 188 Fax: +6082 - 345 118
E-mail: sea.kchsarawak@gmail.com

EPRE 2017

Dato' Sri Ir Peter Lu, Chairman of the Sarawak Electrical Association (SEA) attended cordial business meetings with the Korean exhibitors on 16th March 2017 during the EPRE 2017 Exhibition at the Kuala Lumpur Convention Centre. The Korean national pavilion offered a wide range of E&E products and solutions with the latest technology incorporated.



Cordial and Fruitful Biz' Meeting – (Left) Dato' Sri Ir Peter Lu (SEA Chairman) with the Korean exhibitors.

Other State Association Members' contacts:



Malacca Electrical Contractors and Traders Association

No. 389-G1, Taman Pringgit Jaya,
Jalan Mata Kuching, 75400 Melaka.
Tel: +606 - 283 8688 Fax: +606 - 781 1466



Negeri Sembilan Electrical Engineering Association

c/o No. 194, Jalan Pantai, 71000 Port Dickson,
Negeri Sembilan Darul Khusus.
Tel: +606-647 1105 Fax: +606-647 4728

Sandakan Electrical Engineering Association, Sabah

Block B-2, Lot No. 25, Bandar Utama,
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6th Malaysia-Korea Energy Co-operation Workshop

The Embassy of the Republic of Korea in Malaysia, together with the Ministry of Energy, Green Technology & Water, Malaysia (KETTHA) co-organised the 6th Malaysia-Korea Energy Co-operation Workshop on 16th January 2017 at Renaissance Hotel, Kuala Lumpur.

The workshop was officiated by YBhg Dato' Sri Ir Dr Zaini Ujang, Secretary General of KETTHA. TEEAM President, Ir Chew Shee Fuee KMN was cordially invited to participate in the workshop to share his experience and to enjoy the networking opportunity among participants.

The workshop started with the welcome remarks given by H E Dr Yu Hyun-Seok, Ambassador of the Republic of Korea. This was followed by the opening address by YBhg Dato' Sri Ir Dr Zaini Ujang, Secretary General of KETTHA. Thereafter, four distinguished speakers spoke on the following interesting and current topics:

- * World Energy Outlook by Mr Son Yang-Hoon, Professor of Incheon National University,
- * Revitalising the Energy Landscape in Malaysia by Ir Azhar Omar, Senior Director of Electricity Industry Development & Market Regulations, Energy Commission, Malaysia,
- * Korea's Energy Policy by Mr. Lee Jae-Hoon, President of Korea Polytechnic University,
- * Gas Supply Act Amendments & Third Party Access by Ir Roslee Esman, Director of Gas Development & Regulation, Energy Commission, Malaysia.

At the end of the workshop, there was very interactive panel discussions among the participants. Overall, it was a highly enlightening and fruitful workshop for all who were present.



H E Dr Yu Hyun-Seok
Ambassador of the Republic of Korea in Malaysia



YBhg Dato' Sri Ir Dr Zaini Ujang
Secretary General of KETTHA



Mr Son Yang-Hoon
Incheon National University



Ir Azhar Omar
Energy Commission, Malaysia



Mr. Lee Jae-Hoon
Korea Polytechnic University



Ir Roslee Esman
Energy Commission, Malaysia



Attentive – (2nd from left) Ir Chew Shee Fuee KMN, TEEAM President



All smiles – VIPs at the opening



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22-1, Jalan PJU8/5E, Damansara Perdana,
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Challenges and Opportunities in the Electrical Industry - Part 28

Contributed By Ir Chew Shee Fuee KMN, TEEAM President.

In view of the need for safety in electrical installations, the Suruhanjaya Tenaga (Energy Commission) has implemented an amendment to the Electricity Supply Act, with Act A1501 Electricity Supply (Amendment) Act 2015. As per the Amendment, I would like to highlight the following:

AMENDMENT OF SECTION 33 “PART VIIa” SAFETY OF INSTALLATION AND EQUIPMENT

Responsibilities of licensee for safety

- 33a. (1) A licensee who operates and maintains any electricity supply infrastructure shall comply with any regulations made under this Act, the electrical infrastructure safety code or in the absence of such regulations or code, with standards and prudent utility practices as may be determined by the Commission.
- 33a. (2) A licensee shall prepare a safety management plan dealing with matters as may be prescribed in the electrical infrastructure safety code or in the absence of such code, with standards and prudent utility practices as may be determined by the Commission. Responsibilities of non-domestic electrical installation owner or operator, licensee for retail and licensee for a private installation for safety
- 33b. (1) A non-domestic electrical installation owner or operator registered under this Act, licensee for retail and licensee for a private installation shall comply with the non-domestic electrical installation safety code and the safety management programme, or in the absence of such code or programme, with standards and prudent industry practices as may be determined by the Commission.
- 33b. (2) A non-domestic electrical installation owner or operator registered under this Act, licensee for retail and licensee for a private installation shall prepare a safety management programme within such time as may be directed by the Commission.
- 33b. (3) The safety management programme referred to in sub-section (2) shall provide for matters as may be prescribed in the non-domestic electrical installation safety code, or in the absence of such code, with standards and prudent industry practices as may be determined by the Commission.

With reference to the above, the Energy Commission has drafted the following:

ELECTRICAL INFRASTRUCTURE SAFETY CODE

I have extracted the following:

Annex 1 – Safety Management Plan

A Safety Management Plan for Electricity Supply Infrastructure required for managing electrical risks should incorporate essential management elements of an effective safety management system as follows. However, the specific plan may vary in its details depending

on the nature of the electrical works and risks at the particular infrastructure.

1. Policy and Plan

1.1 Electrical Safety Policy Plan

The licensee/installation has a written policy, plan to ensure electrical safety. The policy, signed by the top management, reflects management commitment to implement the plan for the protection of employees and others who may be affected by the electrical installation. The objectives, responsibilities and arrangements for electrical safety management are spelled out.

1.2 Documentation

Documents related to the electrical safety management system of the licensee/installation are maintained and readily accessible to employees and contractors. The documents contain information on the electrical safety policy, plan, risks identification and control measures, legal and regulatory requirements, and other relevant internal guidelines.

2. Organising

2.1 Responsibility

The top management of the licensee/installation demonstrates leadership for electrical safety programmes and activities, and clearly assigns duties responsibility for electrical safety management, to the line management.

2.2 Competence

Licensee/installation workers and contractors who are exposed to electrical risks are given adequate training and information on electrical safety. The company complies with the requirements under the Electricity Supply Act 1990 and Electricity Regulations 1994 pertaining to the need to engage registered electrically competent persons and contractors to perform electrical works according to their categories of competency.

2.3 Communication

There is a communication plan to disseminate information on electrical risks and control measures to employees and others who may be affected by the risks. Warning signs are used to identify, warn and advise on electrical risks. Suitable administrative arrangements are in place for management to receive and follow up on suggestions and complaints on electrical safety matters.

3. Planning and Implementation

3.1 Planning and Implementation

The licensee's/installation's electrical safety management plan supports:

- compliance with the Electricity Supply Act 1990, Regulations, Codes and Guidelines;
- implementation of all elements of the electrical safety management system;
- continual improvement in electrical safety performance.

We Specialize in Manufacture High Quality Wires and Cable

- Fire Resistant & Flame Retardant Cables
- Power & Control Cables
- Copper & Aluminium Conductors
- Halogen Free Wires & Cables
- Special Cables
- Instrumentation Cables



Fire Resistance Cable



Instrumentation Cable



Braid Instrumentation Cable



Copper Tape Screen Instrumentation Cable



Copper Conductor



Control Cable



XLPE Insulated AWA Cable



XLPE Insulated SWA Cable



Aluminum Copper Tape Screen Cable



Aluminum Conductor

COMPANY INTRODUCTION

Master Tec Wire & Cable was establishing since year 2005, with initial production for PVC cable and Electronics wires & Cables. Within 10 years **Master Tec Wire & Cable** grows from a shop lot factory to current manufacturer plant size of 22,270m² with buildup area 12,326m².

As today, we take pride to be one of the Malaysia premier manufacturers supplying Low Voltage Power cable, Control Cable, Instrumentation cable, Fire Resistance Cable for various electrical and communication connection application.

Our R&D team continues developing and produces high quality wire and cable that can meet virtually every electrical application for both domestic and global demand. We carry an extensive line of cables and customize-made wires and cable for various application.

Member of



The plan provides details on programmes and activities to be implemented and the responsible personnel/units, budgets and targets in efforts to eliminate, minimize and control electrical risks at the installation.

4. Risk Control Measures

4.1 Identification, Evaluation and Control of Risks

Hazards and risks to workers and public are identified, evaluated and controlled on an on-going basis. ('Hazard' is a potential source of harm or adverse health effect on a person or persons. 'Risk' is the likelihood that a person may be harmed or suffers adverse health effects if exposed to a hazard.) Implementation of preventive and corrective control measures for hazards/risks are done according to the hierarchy of risk control as follows:

- a) elimination (completely eliminate the hazard/risk at source);
- b) substitution (substitute the hazardous activity, process or equipment with a less hazardous one);
- c) engineering controls (isolate the hazard from people who could be harmed);
- d) administrative controls (change the way people work or prevent people's exposure to hazards/risks such as by implementing a permit-to-work system);
- e) Personal Protective Equipment (PPE) (provide PPE to cover and protect an individual person from hazards. PPE can be used as a temporary control measure until more effective control measures are in place. In most cases, a combination of other control measures and PPE can effectively control the risks).

4.2 Permit-To-Work System

A written Permit-To-Work (PTW) System with suitable lock-out/tag-out procedures is effectively implemented for high risk electrical works that involve working with live equipment and systems.

(A 'Permit-To-Work' is a formal, written, safe system of work to control potentially hazardous activities. It aims to remove both unsafe conditions and human error by imposing a formal system which requires formal action. The permit details the work to be done and the precautions to be taken. It should state safety precautions to be taken before work can start and the authorizing person should only sign and date the permit when he is satisfied that all precautionary measures have been taken. It should only be in place for a limited duration, be clearly dated and with specific conditions attached. Permits should be issued, checked and signed off as being completed by someone competent to do so, and who is not involved in undertaking the work).

4.3 Emergency Preparedness

A written emergency preparedness plan for the licensee/installation is available and made known to employees and regularly rehearsed. The Plan details how the licensee/installation and its employees deal with or manage electrical emergencies. It spells out preparedness, response and recovery activities and clarifies emergency management roles and responsibilities, strategies and procedures to manage electrical emergencies at the installation.

5. Performance Evaluation

5.1 Investigation of Electrical-related Accidents and Incidents

Investigations of the direct causes and indirect causes of electrical-related accidents and near-miss incidents are carried out by competent persons, with the appropriate participation of management and workers. Contributing factors arising out of any shortcomings or failures in the electrical safety management system are identified and documented. Recommendations for improvement

are communicated to the top management for follow-up corrective actions.

5.2 Performance Monitoring and Review

A system for licensee's/installation's management to regularly monitor electrical safety performance are established. Records and statistics of electrical accidents and near-miss incidents are kept and analyzed, and root causes of accidents and incidents are addressed via short-term and long-term measures. Periodic internal audits of each of the elements of the electrical safety management system are carried out to identify the strengths and weaknesses of the system and to put in place improvement measures. Management reviews are conducted periodically to evaluate the overall strategy of the electrical safety management system.

6. Action for Improvement

6.1 Preventive and Corrective Action

Arrangements for preventive and corrective actions are established and updated based on the outcome of the ongoing electrical safety performance monitoring and review programme. When the evaluation of the electrical safety management system shows that preventive and protective measures are ineffective, corrective measures are addressed according to the hierarchy of risk control (refer 4.1), in a timely manner. Directives and notices issued by the Energy Commission are acted upon promptly and effectively.

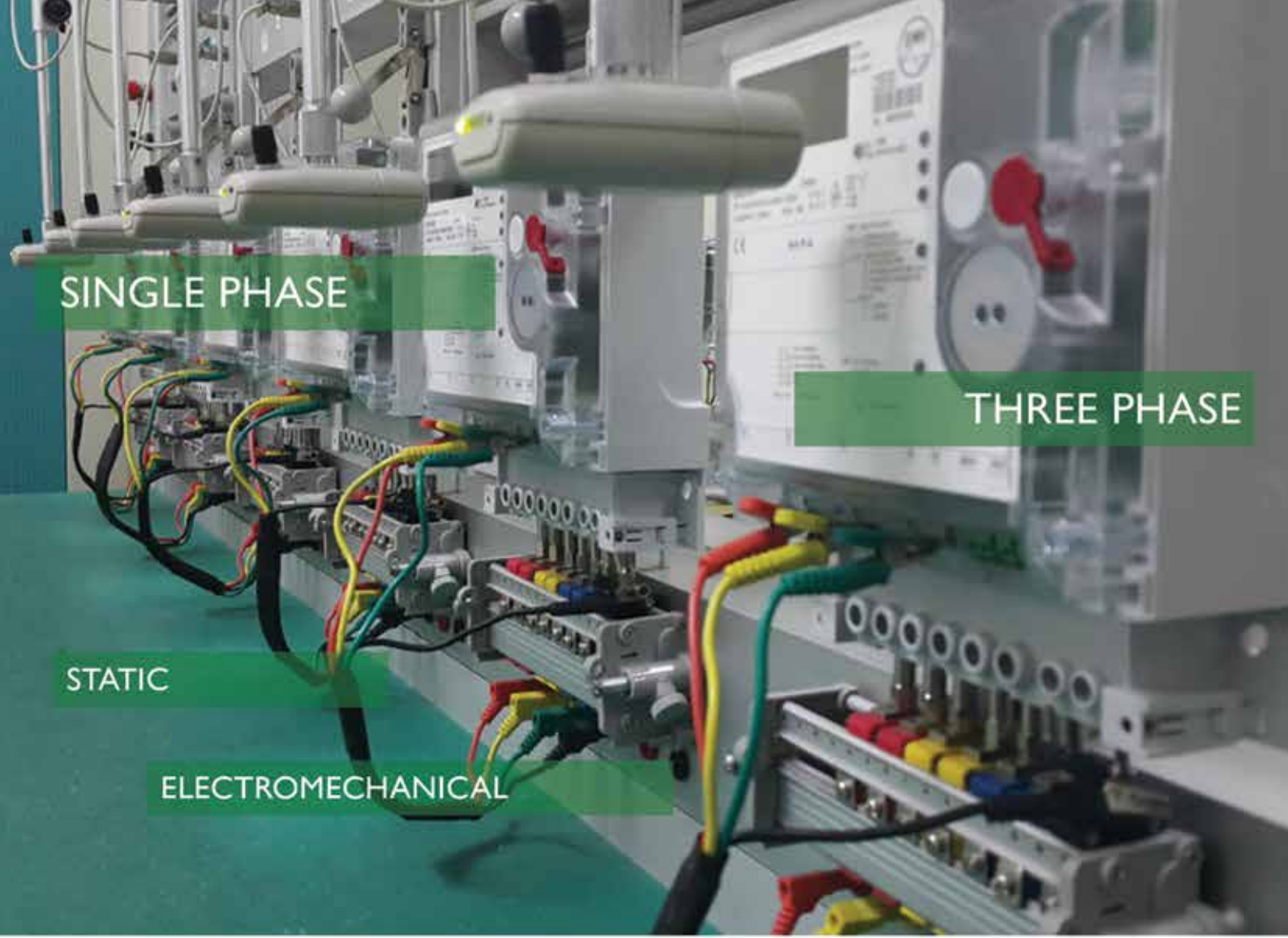
6.2 Continual Improvement

Programmes and procedures are established for the continual improvement of the electrical safety management system. These take into account the results of risk assessments, performance measurements, investigations, audits, and changes in the Electricity Supply Act 1990, Regulations, Codes and Guidelines, technical or administrative changes in the electrical installation, and the results of electrical safety protection and promotion programmes. The electrical safety procedures, and performance of the electrical installation are benchmarked with other similar organisations to improve the overall electrical safety performance.

Ir Chew Shee Fuee KMN B Sc (Hons) (Strathclyde), PEng, CEng, FIEM, MIEE Member, IEEE Member, 1st Grade Electrical Engineer (Competent up to 500 kV).

Ir Chew is the current President of The Electrical and Electronics Association of Malaysia (TEEAM). He was TEEAM President for 2001-2003 and 2003-2005. He is the President of the ASEAN Federation of Electrical Engineering Contractors (AFEEC) for 2016-2018. He is the Chairman of The Institution of Engineering & Technology (IET) Malaysia Local Network. Ir Chew is the Managing Director of G H Liew Engineering (1990) Sdn Bhd and Chris Chew Electrical Consultant. He graduated from the University of Strathclyde, Glasgow with a B Sc (Hons) in Electrical & Electronics Engineering. He is a Professional Engineer and is also licensed by the Energy Commission as a Competent Engineer (without voltage limits) and a Service Engineer to carry out electrical testing up to a voltage of 500 kV.

Ir Chew has more than 30 years of industry experience in electrical control and relay protection. He is also specialised in electrical site tests on power equipment, electrical fault investigation, service and maintenance of electrical switchgears and relays. His work also includes electrical supervision of sub-stations and electrical audit. He also presents lectures on electrical apparatus and the protection system. He is Vice Chairman of MyENC (Malaysian Electro-Technical National Committee) and Member of Technical Committees (TCs) and Working Groups (WGs) in Standards Development. He can be reached at E-mail: sfchew@ghliew1990.com.



SINGLE PHASE

THREE PHASE

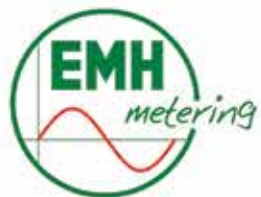
STATIC

ELECTROMECHANICAL

EMH Metering Sdn Bhd is a accredited MS ISO/IEC 17025:2005 laboratory that provide services for calibration and testing for the energy meter.

Scope of calibration and testing

- **Single & Three phase Electromechanical Meter**
Active Energy Class 1 and 2 (IEC62053-11:2009)
- **Single & Three phase Static Meter**
Active Energy Class 1 and 2 (IEC62053-21:2009)
Active Energy Class 0.2S, 0.5S (IEC62053-22:2009)
Reactive Energy Class 2 and 3 (IEC62053-23:2009)



CALIBRATION AND TESTING LABORATORY



(Co.No. 889606-A) (SAMM No. 654)

No.9, Jalan Anggerik Mokara 31/52, Kota Kemuning, 40460 Shah Alam, Selangor Darul Ehsan, Malaysia.

E : info@emhmetering.com.my W : www.emh-metering.com.my T : +603 5122 0760 F : +603 5131 8837