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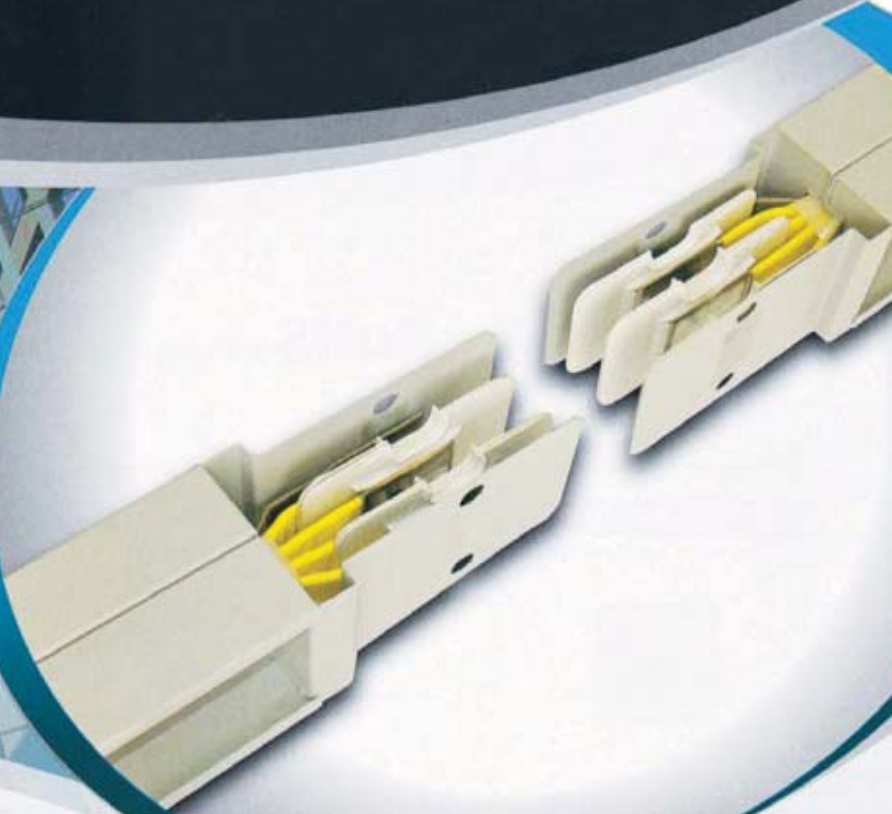
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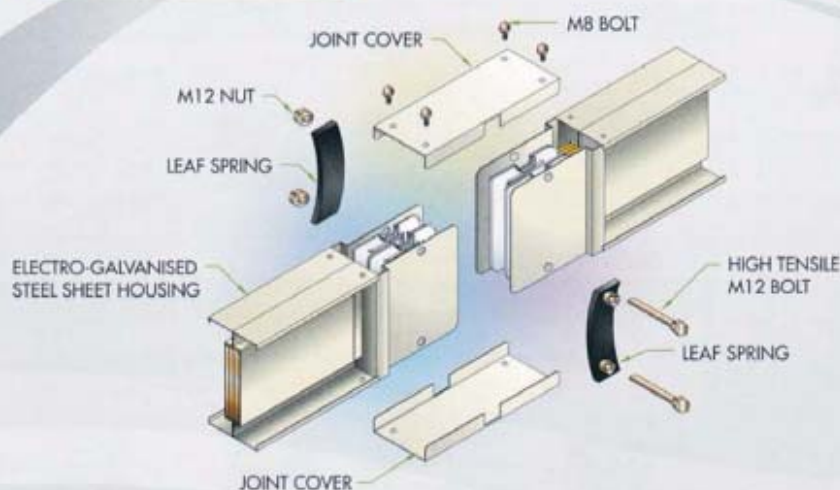
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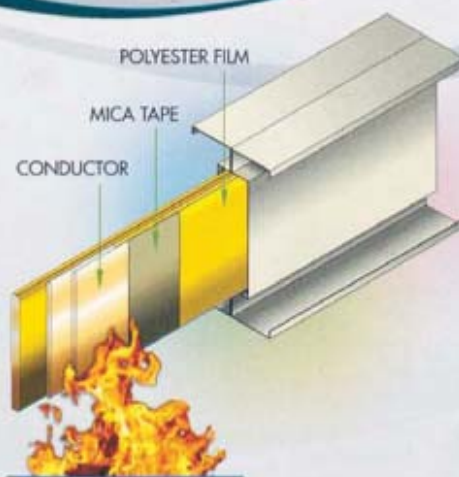
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Penang Electrical Merchants' Association
Sabah Electrical Association
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Sarawak Electrical Association
The Perak Electrical Association

SUARA TEEAM

A Publication of The Electrical and Electronics Association of Malaysia

Publisher & Editorial:

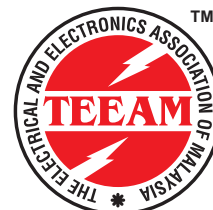
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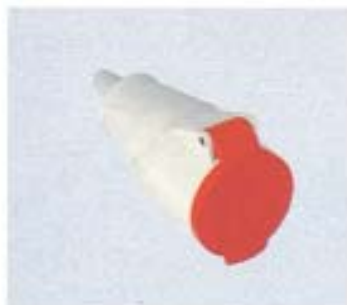
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Bowling Tournament Page 65



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Suara TEEAM is distributed free of charge to TEEAM members and selective organisations. For those who wish to purchase a copy, the cost is RM 18.00 which includes postage within Malaysia. For overseas order, please check with the publisher.

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From The Editor's Desk



The slow-down in construction tenders in the last 2 years is now being felt more prominently. The government's efforts through transformation projects will take time to really be felt by the players in the industry. The oil price is high but remains reasonably steady but we are being affected by currency fluctuation. In simple terms we are still in a lot of uncertainty as far as economics are concerned.

We had our AGM in May and a new list of office bearers will be serving TEEAM for the year 2011-2013. We congratulate everyone and wish them all the success in bringing TEEAM to a new height.

TEEAM is organising the AOTS Energy Efficiency Training in Japan which will be held late September this year. This is a good opportunity for anyone who wishes to be trained in EE. We hope to gather 25 people to take up all the available places. Our past participants have spoken highly of the training and the benefits they have gained on understanding and implementing EE.

FAPECA/AFEEC Conference & Board Meetings will be held in Seoul in early October. TEEAM is hoping to organise technical visit to Seoul in conjunction with the FAPECA/AFEEC event. We hope to have your participation to make it a success.

TEEAM's proposal on Power Factor Improvement had been forwarded to the Minister of Energy, Green Technology and Water on 6th June this year. We are now awaiting the ministry to administer the implementation of our proposal. We are glad to inform that our proposal has been well received by the Minister when we met him and briefed him on the proposal.

We are grateful to be a supporter of ASEAN ELENEX 2011. The Energy Commission has organised the National Safety Conference and we have been involved in the preparation of this conference. We hope this will be a good forum for everyone in the industry to focus on electrical safety. We understand that it may become the beginning of regular conferences in the future.

The formation of NCCIE was made last year and TEEAM is now officially the Secretariat for NCCIE after signing an agreement with Standards Malaysia in June. The Chairman of NCCIE will be attending the 27th Session of the CIE in South Africa from 10th to 15th July 2011. This will be the first participation of NCCIE from Malaysia. This is a good beginning for those in the lighting industry in Malaysia.

TEEAM's Green Energy Technology Committee had their first meeting on 2nd June 2011. This is TEEAM's effort in keeping ourselves fully engaged with the technology and its implementation.

Regards,

Ir Chew Shee Fuee
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AGM & Election 2011

TEEAM Annual General Meeting (AGM) was successfully held on 8th May 2011 at TEEAM Conference Room. It was a historical event as it was the first AGM that was officiated by a Guest of Honour, YB Dato' Ir Donald Lim Siang Chai, Deputy Finance Minister of Malaysia. He was TEEAM Past President from 1995-2001 and also TEEAM Honorary Fellow. Some 77 TEEAM members were present at the AGM.

Opening Address

TEEAM President, Engr Fu Wing Hoong thanked YB Dato' Ir Donald Lim for taking time off to officiate the TEEAM AGM. He also expressed his gratitude to members for their presence. The strong support shows that TEEAM is very much a relevant association, representing the voice of more than 1,700 direct and affiliated members. To bring TEEAM to greater heights, much work needs to be done. Engr Fu appealed to all members for their continuous support and participation in activities organised by the association.

Keynote Address

YB Dato' Ir Donald Lim in his keynote address said that the government always emphasises the importance of maintaining strong and effective relationship with trade associations like TEEAM in order to ensure the systematic progress and development in the industry. Therefore TEEAM is welcomed to get in touch with his ministry to further enhance the relationship so that the E&E sector can move forward in tandem with the needs of the country.

Acceptance of Minutes, Annual Report and Accounts

The minutes of the previous AGM were unanimously approved by the general meeting. This was followed by the

tabling of annual report on the activities of TEEAM for the year 2010 by the Honorary Secretary, Mr Ho Khai Hong. The report was duly accepted. Next was the audited accounts for the year ended 31st December 2010 tabled by the Honorary Treasurer, Mr Wong Chin Cheong. The accounts were duly accepted.

Election of New Office Bearers

The election of new office bearers for the year 2011-2013 was carried out during the AGM under the supervision of an Election Committee, chaired by Ir G H Liew. Engr Fu Wing Hoong was re-elected unopposed as TEEAM President. Ir Steven Ng Khoon Hwa also re-elected as the Deputy President. Long time serving Honorary Treasurer, Mr Wong Chin Cheong was returned unopposed. Mr Jack Soon Lee Hock was re-elected unopposed too as the Assistant Honorary Secretary. Mr Ho Khai Hong was re-appointed as the Honorary



Members at the AGM – Well support from members.

Secretary by the President. The new post of Assistant Honorary Treasurer was succeeded by Mr Michael Oan Cheng Hoe. There were some new faces joining the line-up and some Council Members were re-elected. The full list of new office bearers appears on page 13.

Specialised Group's General Meeting

Three specialised Groups' General Meetings were held individually after the AGM. Ir Chew Shee Fuee was re-elected as the Chairman of the Engineering Construction & Services Group. Mr David Chong Ah Nyap succeeded as Chairman of Trading Group for the new term and Mr Yap Ching Kiat was re-elected as the Chairman of Manufacturing Group. They also automatically assume the posts of Vice Presidents of TEEAM.

The day's event capped off with a buffet lunch.



TEEAM Council for the year 2011-2013 – (seated from left) Teoh Yew Yean (Council Member), Chan Kaim Sam (Council Member), David Chong Ah Nyap (Vice President), Ir Chew Shee Fuee (Vice President), Ir Steven Ng Khoon Hwa (Deputy President), Engr Fu Wing Hoong (President), Ho Khai Hong (Honorary Secretary), Wong Chin Cheong (Honorary Treasurer), Dato' Ir Lee Peng Joo (Immediate Past President cum Adviser), Suresh Kumar Gorasia (Past President) and Jack Soon Lee Hock (Assistant Honorary Secretary). (standing from left) Council Members: Lawrence Lai Kun Hoong, Leonard Choong Kin Loong, Siew Choon Thye, Simon Leong Kien Khan, Engr Leong Kam Seng, Tan Eng Liang, Ir Yong Ah Huat, Chong Yoon Koon, Theresa Lam Tze Kwan, Sundararaju Thandava Moorthi, Perumal Vengadasalam, Stan Lim Hui Ming, Dahari Mat Siran, Philip Tang Tung Kee, Ooi Eng Guan, Ir Chang Yew Cheong and Liang Kok Boon. (Some Council Members

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..... Continue AGM & Election 2011



Difficult to choose – Members reading through the nominees' CV before casting their votes.



Guest of Honour – YB Dato' Ir Donald Lim Siang Chai delivering his speech before officiating the AGM.



Honorary Fellow Award – (left) Engr Fu Wing Hoong presenting an Honorary Fellow certificate plaque to YB Dato' Ir Donald Lim.



For the album – Council Members posing with YB Dato' Ir Donald Lim after the opening.



Outgoing Exco Members – A group photo taken before electing the new term of office bearers.



Press Conference – Exco members highlighted some pressing issues to the Press members.



During election – The Election Committee counting votes.



Great support from State Associations – (from left) Mr Teoh Yew Yean (PEMA President, Penang), Mr Francis Chew Jooh Fah (SEA Chairman, Sarawak) and Mr Woo Soo Poo (PEA President, Sabah).



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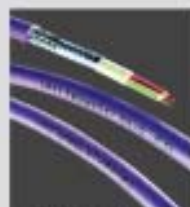
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..... Continue AGM & Election 2011



Assistant Honorary Treasurer – Mr Michael Oan Cheng Hoe (Oon Brothers Electrical Trading Co) was elected for the new post.



Casting votes – The election was carried out by secret ballot and supervised by the Election Committee.



Votes recording – Mr Suresh Kumar Gorasia (Past President) and Mr Jack Soon Lee Hock (Assistant Honorary Secretary) counting and recording the votes.



Some newly elected Council Members – (from left) Mr Dahari Mat Siran (Hager Engineering), Mr Siew Choon Thye (Megalux Lightings), Mr Leonard Choong Kin Loong (KDK Fans) and Mr Simon Leong Kien Khan (Federal Electrical).



Trading Group General Meeting – (from left) Mr Ooi Eng Guan (Secretary), Engr Leong Kam Seng (Immediate Past Chairman) and Mr Leonard Choong Kin Loong (Vice Chairman).



Manufacturing General Meeting – Mr Yap Ching Kiat (seated) was re-elected as the Chairman of the Manufacturing Group. Members posing before the meeting.



Engineering Construction & Services Group – The general meeting elected a new committee. (from left) Mr Fong Mun Loon (Treasurer), Ir Chew Shee Chee (Chairman), Mr Tan Eng Liang (Secretary), Mr Lawrence Lai Kun Hoong (Vice Chairman) and Mr Ho Khai Hong (Committee Member). Mr Ho is also TEEAM Honorary Secretary.



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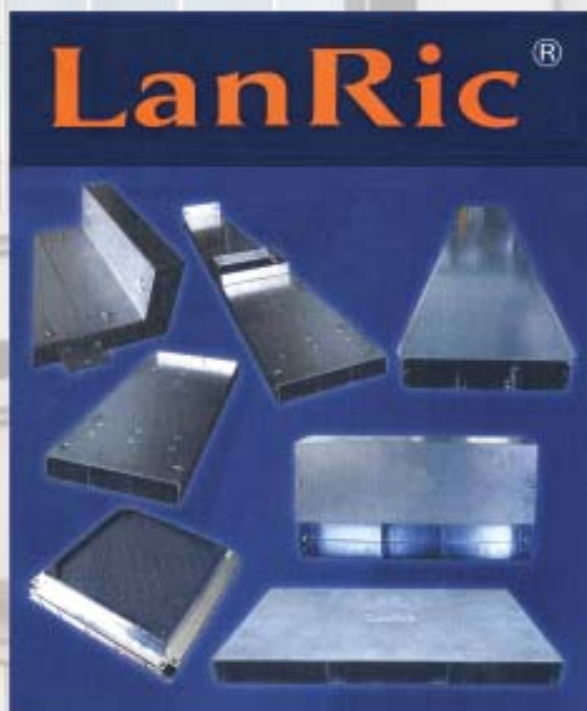
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Immediate Past President / Adviser	Dato' Ir Lee Peng Joo	Individual
Past President	Suresh Kumar J Gorasia	Amalgamated Engineering & Commercial Co (KL) Sdn Bhd
Vice Presidents	Ir Chew Shee Fuee	G H Liew Engineering (1990) Sdn Bhd
	David Chong Ah Nyap	Euro Electrical Sdn Bhd
	Yap Ching Kiat	Straits Design Sdn Bhd
Honorary Secretary	Ho Khai Hong	Sim Brothers Electric Co
Honorary Treasurer	Wong Chin Cheong	Pembinaan Letrik Sama Sdn Bhd
Assistant Honorary Secretary	Jack Soon Lee Hock	SBS Elektrik Sdn Bhd
Assistant Honorary Treasurer	Michael Oan Cheng Hoe	Oon Brothers Electrical Trading Co Sdn Bhd
Committee Members	Chan Kaim Sam	The Perak Electrical Association
	Ir Chang Yew Cheong	Individual
	Chew See Kheng	Negeri Sembilan Electrical Engineering Association
	Chong Yoon Koon	Chong's Engineering Trading & Company
	Dahari Mat Siran	Hager Engineering (M) Sdn Bhd
	Fong Mun Loon	Letrik PJ Union Sdn Bhd
	Francis Chew Joon Fah	Sarawak Electrical Association
	Gan Seng Chong	Malacca Electrical Contractors & Traders Association
	Hii Hua Chuon	Electrical Association of Sarawak & Sabah
	Lawrence Lai Kun Hoong	Lightning Power Surge Protection Sdn Bhd
	Leonard Choong Kin Loong	KDK Fans (M) Sdn Bhd
	Leong Kam Meng	Johor Bahru Electrical & Electronics Association
	Engr Leong Kam Seng	Cahaya Fasa Sdn Bhd
	Liang Kok Boon	Chi-Tak Electrical (Sel) Sdn Bhd
	Lim Chun Nge	Rising Electrical Trading Sdn Bhd
	Ooi Eng Guan	Y2K Electric (M) Sdn Bhd
	Perumal Vengadasalam	Individual
	Philip Tang Tung Kee	Schneider Electric Industries (Malaysia) Sdn Bhd
	Ricky Lim Lip Kee	Sandakan Electrical Engineering Association, Sabah
	Siew Choon Thye	Megalux Lightings Sdn Bhd
	Simon Leong Kien Khan	Federal Electrical Engineering Sdn Bhd
	Stan Lim Hui Ming	Nanyang Electric Co (M) Sdn Bhd
	Subramaniam Karuppan	Kejuruteraan Elektrik Suria (M) Sdn Bhd
	Sundararaju Thandava Moorthi	Speco Bumi Elektrik Sdn Bhd
	Tan Eng Liang	TCME Engineering Services Sdn Bhd
	Teoh Yew Yean	Penang Electrical Merchants' Association
	Theresa Lam Tze Kwan	Electrical Components Sdn Bhd
	Woo Soo Poo	Sabah Electrical Association
	Ir Yong Ah Huat	Toshiba Transmission & Distribution Systems Asia Sdn Bhd

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Position	Name	Company / Individual / State Association
Technical Adviser	Ir Rocky Wong Hon Thang	Individual
Legal Adviser	Lee Wah	Individual
Internal Auditors	William Young Chee Keong	Eura Industrial Thermoplastics (M) Sdn Bhd
	Yong Kim Yun	Translite Electric Sdn Bhd
Trustees	Ir G H Liew	G H Liew Engineering Services Sdn Bhd
	Lim Yok Kee	Nanyang Electric Co (M) Sdn Bhd
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Modular Switchgear
with LKE-ISOVAC
and LKE-GLBS within**LKE-LCA-V** ⑩
Modular Switchgear
with LKE-VLBS within**LKE-LCA-G** ⑨
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Courtesy Visit to KeTTHA

TEEAM paid a courtesy visit to the Minister of Energy, Green Technology and Water, YB Dato' Sri Peter Chin Fah Kui on 6th June 2011. Senior officials from the Ministry of Energy, Green Technology and Water (KeTTHA), Mr K Ramnick Lal Verma and Mr Somasundram Ramasamy joined the discussion. Ir Ahmad Fauzi Hasan (ST CEO) was also present.

The delegation from TEEAM were Engr Fu Wing Hoong (President), Ir Chew Shee Fuee (Vice President), Mr Yap Ching Kiat (Vice President), Mr Ho Khai Hong (Honorary Secretary), Mr Leonard Choong Kin Loong (Vice Chairman of Trading Group) and Ms Winnie Khong (Executive Secretary).

The visit aimed to present a formal proposal on power factor (PF) improvement to the Minister. Besides, green and renewable energy issues were also touched on.

Improvement of Power Factor

The depletion of fossil fuel is of major concern to the energy needed for all activities of the human race. The concern on excessive CO₂ emission creating a climate change phenomenon is however becoming more and more alarming. Therefore the need to accelerate the progress of energy efficiency (EE) is now urgent and has been greatly noted by many governments of the world. Great amount of funds towards the promotion and encouragement on EE are given by many governments in order to reduce the demand on electrical energy and therefore reduce the need for more fuel. At the same time the reduction in electrical demand can be achieved by increased EE.

PF remains an important element in the electrical power distribution. The minimum requirement on PF in the tariff has been established for a long period of time. It is now the time to consider increasing the minimum requirement on PF so that more efficient distribution of power can be made. On the



TEEAM meeting KeTTHA – Issues of concern were raised to the Minister.



A fruitful meeting – TEEAM officials with KeTTHA Minister & officials and ST CEO.

other hand the increase in PF will allow for power distribution to be increased without having to plant-up new generators.

Basing on the current 15,000MW of Maximum Demand (MD) in the Peninsular TNB network we can easily work on improvement of PF on at least half of the MD which is 7,500MW. If we can achieve 10% PF improvement we will reduce 750MW of MD. The amount of power can be used for new installations and other demands before the need for new generators is made.

TEEAM believes the improvement in PF is the way forward to improve EE. TEEAM's proposal is also based on the encouragement for PF improvement by giving incentive in discounts of bill if PF can be made better than the current 0.85. This is to reward the user in making capital investment to improve PF. If the overall PF can be kept at 0.95, it means that there is an extra 10% electrical power in the system available for distribution. TNB can sell an extra 10% without incurring any extra cost and the amount of carbon reduction would be substantial.

TEEAM's Proposal on PF Requirement

The current TNB tariff requires PF to have a minimum of 0.85 for voltages below 132kV.

In view of the advantage of increasing power distribution if the PF requirement is improved, therefore it is necessary to propose a new PF requirement. The proposal is additional to the current PF requirement in the tariff structure.

TNB requirement:

- a. Below 0.85 and up to 0.75 lagging, a supplementary charge of one and one-half per cent (1½%) of the bill for that month for each one-hundredth part (0.01) below 0.85 and up to 0.75 lagging PF will be added to the bill for that month, and
- b. Below 0.75 lagging, in addition to the charge payable under subparagraph (a) above, a supplementary charge of three per cent (3%) of the bill for that month for each one-hundredth (0.01) part below 0.75 lagging PF will be added to the bill for that month.

Proposed additional requirement:

- c. If PF is above 0.85 an incentive discount of one per cent (1%) of the bill for that month for each one hundredth part (0.01) above 0.85 lagging PF shall be applied to the bill for that month.

The above proposal is well supported by many stakeholders namely MACRA (Malaysian Air-Conditioning & Refrigeration Association), MALEA (Malaysian Lift & Escalator



KeTTHA Minister – YB Dato' Sri Peter Chin Fah Kui chairing the meeting.



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..... Continue Courtesy Visit to KeTTHA

Association), ACEM (Association of Consulting Engineers Malaysia), SMI (SMI Association of Malaysia), CIOB (The Chartered Institute of Building Malaysia), REHDA (The Real Estate and Housing Developers' Association of Malaysia), ICEM (Institute of Certified Engineers Malaysia), KLSCCCI (The Chinese Chamber of Commerce & Industry of Kuala Lumpur and Selangor) and PPKM (Malaysian Association for Shopping and Highrise Complex Management).

With incentives given, building and equipment owner will certainly beef up their PF correction and invest in PF equipment. ST is all for it to give incentives to consumers. The Commission has met TNB on the matter and the utility is studying the proposal.

It is learnt that India and Philippines have incentives for PF improvement in term of rebates on electricity bill. With tariff increment, rebate to business will be a positive move by the government. TEEAM's proposal was well received by the Minister and we look forward to quick implementation of the proposal.

Green & Renewable Energy

The green initiative is a great effort that will help save our mother earth and will be the future driving force that shape the way we do businesses. However, there is a high cost of initial investment in green technology. Although there are already incentives in place, TEEAM felt more should be done to spur the private sector to enter this segment in a bigger way so that Malaysia will stand out in the world.

We thanked the government for the number of initiatives to help boost this sector but some of these initiatives need to be re-visited. Although the government had put in place RM 1.5 billion Green Tech Financing Scheme (GTFS), a check at the GreenTech website only shows that RM 200 million was taken up as of 27th May 2011. TEEAM believed that the scheme should be re-studied

to make it more attractive and to better encourage the private sector to venture into it. Some considerations TEEAM proposed the government to look into include the followings:

- The GTFS - Government's bearing of only 2% interest is not attractive and it is easily offset by the high cost of Green Tech Business. To be sufficient attractive, the government should look at the overall interest rate, set it with a maximum cap such as interest rate maximum at 4%. Current scheme allows different bank to charge at different spread above BLR and this make the scheme not very attractive to smaller players. The spread can vary between 0-3% depending on the financial strength of the applicant.
- To allow Parent Company for investment tax allowances when they invest in a big way into newly incorporated special purpose green business vehicles.
- To attract local investment in a big way, TEEAM hoped that the government could continue to lead and play an active role by becoming the biggest consumer of green systems.
- Consider tax deductible from income tax even at consumer level for specific green

equipment such as solar heaters, solar energy and solar lighting. All these efforts will help slow down demand on energy for TNB and slow down the need to build power plant.

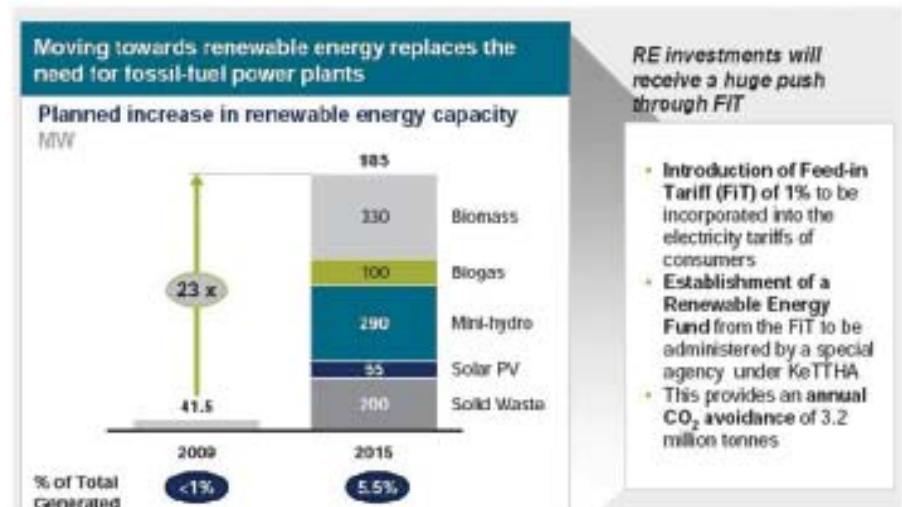
EE Rebate for Appliances

TEEAM was informed by KeTTHA that the government will be giving consumers rebates when they purchase selected energy-efficient refrigerators and air-conditioners with a 5-star energy rating. This initiative is to encourage consumers to be energy-efficient.

Feed-in Tariff

KeTTHA informed that the introduction of feed-in-tariff (FIT) of 1% is to be incorporated into the electricity tariffs of consumers effective 1st September 2011. FIT aimed to increase the generation of electricity from renewable sources of energy such as solar photovoltaic, biogas, biomass, mini hydro and solid waste. The system allows electricity produced to be sold to power utility at a fixed price for a specific duration.

The meeting concluded with a note of thanks to the Minister. The meeting capped off with a group photo.



Discussion – (from left) Mr Leonard Choong Kin Loong (TEEAM Vice Chairman of Trading Group), Mr Ho Khai Hong (TEEAM Honorary Secretary), Mr Yap Ching Kiat (TEEAM Vice President), Ir Chew Shee Fuee (TEEAM Vice President), Engr Fu Wing Hoong (TEEAM President) and YB Dato' Sri Peter Chin Fah Kui.



KeTTHA and ST officials – (from left) Mr Somasundram Ramasamy (Senior Undersecretary of Energy Sector), Ir Ahmad Fauzi Hasan (ST CEO), Mr K Ramnick Lal Verma (Senior Principal Assistant Secretary of Green Technology Sector) and Mr Nicholas Yii Siew Hua (Principal Private Secretary to the Minister).



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NCCIE News

TEEAM has initiated and formalised the Malaysian National Committee of CIE (NCCIE) with the support of the government through Standards Malaysia.

The International Commission on Illumination also known as CIE is devoted to worldwide cooperation and the exchange of information on matters relating to the science and art of light and lighting, colour and vision, and image technology.

NCCIE

NCCIE Malaysia has been formally accepted by CIE Central Bureau as the National Committee representing Malaysia on 26th May 2009. As a member of CIE, Malaysia can participate in international lighting forum, develop relevant standards, take part in liaison and technical interaction with other international organisations so as to improve and upscale the Malaysian lighting industry towards international best practice standards. By being involved in the CIE activities, the industry can obtain early information about potential market requirements, future regulations and specifications for products and applications in order to be able to provide competitive solutions especially for overseas markets.

The NCCIE challenges to become the “Centre of Excellence for Light and Lightings” in the Asean region in the future. Malaysia is the first National Committee that joins as a country representative in this region.

NCCIE was formalised with the establishment of a set of term of reference. Mr C T Siew was elected as the Chairman of the National Committee. The Committee reports to the Malaysian Electrotechnical National Committee (MyENC). The membership of NCCIE will hold office for a period of three years from 2010 – 2012. TEEAM hosts and facilitates the Secretariat of NCCIE after signing an agreement with Standards Malaysia.



1st NCCIE meeting – Engrossed in discussion.

Lighting PE & Training

The 1st meeting of NCCIE was held on 30th June 2011 at TEEAM. The meeting discussed among others, the need to recognise lighting engineers. Hence, the National Committee will explore the possibility of certifying lighting engineers as professional engineers.

The National Committee also discussed the need to organise training courses on lighting with Green Building Index (GBI) and universities such as UNITEN and UTM, and other technical seminars on lighting to create awareness and learning opportunities.

MyCIE

While NCCIE is deemed the governing council of CIE Malaysia Chapter, MyCIE (Malaysia CIE) is the Working Committee that carries out the project works. MyCIE consists of interested parties from the industry and universities. It is a platform for them to reach out to international forum.

Division Heads

A MyCIE meeting was held on the same day to make selection of Division Heads, namely:

Division 1: Vision and colour (headed by Mr John See of QAV Technologies)

Division 2: Measurement of light and radiation

Division 3: Interior environment and lighting design (headed by Mr Lavislav Varga of Siteco)

Division 4: Lighting and signalling for transport (headed by Ms Lim Swee Yoong of Straits Design)

Division 5: Exterior lighting and other applications (to be combined with division 4)

Division 6: Photobiology and photochemistry

Division 8: Image technology (headed by Ir Rocky Wong Hon Thang, NCCIE Adviser)

Division Heads will kick-start sub-committee meetings. For a start, Division Heads can create awareness by getting information from CIE to be made known to the local lighting industry players on what the whole world is practising.

Webpage & CIE Publications

MyCIE also discussed the need to have a webpage to provide updates and progress of



NCCIE Chairman – (background) Mr C T Siew chairs the NCCIE and MyCIE meeting.



NCCIE members – (from left) Mr Lavislav Varga (Siteco), Mr Feris Frederick (Standards Malaysia) and Ir Lee Kok Chong (IEM).



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Guangzhou Lighting Exhibition 2011

TEEAM trade delegation visited the Guangzhou Lighting Exhibition for the 5th time this year. The exhibition which was supported by TEEAM, was held from 9th to 11th June 2011 at the China Import & Export Fair Complex in Guangzhou, China. Mr Koh Hark Hwa (Manufacturing Committee Member) led the 5-member delegation. The delegates were from Kohsun (KL) Sdn Bhd and Antara Elektrik Sdn Bhd.

The 2011 exhibition which was the 16th edition increased in size to 16 exhibition halls offering 160,000 sqm. Five theme zones were arranged to cover a full spectrum of LED/OLED products and technologies. Such classification provided clear and friendly identification for both exhibitors and visitors for targeted meeting. The zones included:

- LED/OLED raw material and components,
- LED/OLED driver and power supply,
- LED/OLED packages/modules,
- LED/OLED manufacturing and processing equipment,
- LED/OLED applications (Illumination displays, backlight, signs and signals, automobile, etc).

Besides LED, the exhibit profiles included accessories & electronics components; decorative lighting; electric lights; light control; management & measurement system; professional lights; and technical lights. The event was the biggest lighting exhibition in Asia.



Opening ceremony – Exhibition opening on 9th June 2011.



Exhibition hall – Visitors at the Guangzhou Lighting Exhibition 2011.



..... Continue NCCIE News

CIE Malaysia. Purchase of CIE publications was also touched on and it was agreed to buy them in stages to help in the work of the various Divisions.

CIE 2011 in South Africa

The Chairman of NCCIE will be attending the 27th Session of the CIE in Sun City, South Africa from 10th to 15th July 2011. Besides the conference, division meetings and technical committee meetings as well as workshops will be organised. The attendance of Mr CT Siew will be a very good exposure for Malaysia to the CIE. It will also pave the way for networking with other National Committees.

Next Meeting

The next NCCIE and MyCIE meeting is scheduled on 15th September 2011 at 10.30 am and 2.00 pm respectively. Industry players are welcomed to join the MyCIE working committee.

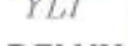
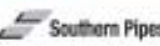


MyCIE meeting – Working Committee planning out the activities.



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Business Partners Wanted

Visit by TDRI, Thailand

A 5-member Thai research team from Thailand Development Research Institute (TDRI), the Ministry of Industry and the Office of Industrial Economics visited TEEAM on 1st June 2011.

The TDRI officials were Dr Somkiat Tangkitvanich (Vice President) and Mr Sunthorn Tunmuntong (Researcher). They were accompanied by Analysts from the Office of Industrial Economics (OIE), Mr Chalee Khansiri and Mrs Budthree Tiamtiabrat; and Mr Somchai Harnhirun (Inspector General, Ministry of Industry).

TEEAM officials, Engr Fu Wing Hoong (President), Ir Chew Shee Fuee (Vice President), Mr Suresh Kumar Gorasia (Past President) and Ir Rocky Wong Hon Thang (Honorary Fellow cum Technical Adviser) received the visiting guests.

The discussion focused on the impact of existing bilateral and regional Free Trade Agreements (FTAs) on the electrical and electronics (E&E) manufacturing sector as well as domestic and foreign investments in Malaysia.

FTAs are aimed at providing the means to achieve quicker and higher levels of liberalisation that would create effective



During meeting – Issues on FTAs were discussed.

market access for goods and services between the participants of the FTAs. FTAs are comprehensive and they include investment, trade facilitation, intellectual property rights as well as economic cooperation.

Malaysia has concluded, signed or implemented four bilateral FTAs with the following countries:

- Japan – December 2005
- Pakistan – November 2007
- New Zealand – October 2009
- Chile – November 2010

At the regional level, Malaysia and its ASEAN partners have established the ASEAN Free Trade Area. ASEAN has also concluded FTAs with the following countries:

- China – November 2004
- Korea – August 2006
- Japan – April 2008
- Australia & New Zealand – February 2009
- India – August 2009

The discussion was fruitful and the Thai guests thanked TEEAM for the time and opportunity to share issues of mutual concern.



Souvenir from TDRI – (left) Engr Fu Wing Hoong (TEEAM President) receiving a souvenir from Mr Somchai Harnhirun (Inspector General, Ministry of Industry, Thailand).



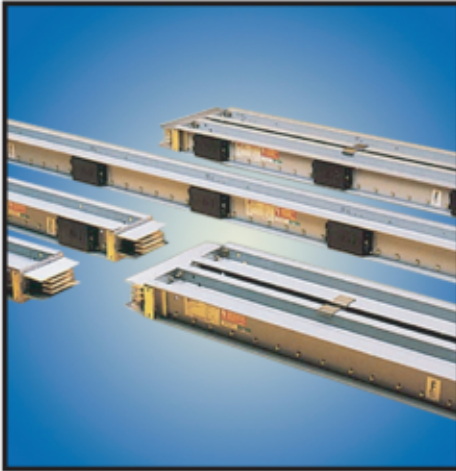
TEEAM officials – (from left) Mr Suresh Kumar Gorasia (Past President), Ir Rocky Wong Hon Thang (Honorary Fellow cum Technical Adviser), Engr Fu Wing Hoong (President) and Ir Chew Shee Fuee (Vice President).



For remembrance – Visiting guests posing with TEEAM officials.



Visiting guests from Thailand – (from left) Mr Sunthorn Tunmuntong (TDRI Researcher), Dr Somkiat Tangkitvanich (TDRI Vice President), Mr Somchai Harnhirun (Inspector General, Ministry of Industry), Mr Chalee Khansiri (OIE Plan & Policy Analyst) and Mrs Budthree Tiamtiabrat (OIE Plan & Policy Analyst).



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ST's Diamond Building Launch

Our heartiest congratulations to the Energy Commission (Suruhanjaya Tenaga – ST) on the recent successful launch of its Diamond Building headquarters in Putrajaya. TEEAM officials are proud to be invited as VIP guests to witness the grand launching on 31st May 2011. The diamond-shaped building is a shining example of energy efficiency which is built under the green concept. It is capable of saving up to 60% in power consumption and 65% in water usage.

YAB Tan Sri Dato' Hj Muhyiddin Hj Mohd Yassin, Deputy Prime Minister (DPM) officiated the launching. He announced that new incentives are in the pipeline to encourage the construction of more green buildings. However, the government will not rush into making it compulsory for all buildings to adopt the green concept as it is costly. The government welcomes those who want to do it voluntarily.

Features of the Diamond Building

The building is designed to showcase technologies that will reduce building energy consumption and potable water usage, promote the use of sustainable building



Impressive – ST's Diamond Building is a shining example of energy-efficient building.

material and provide enhanced indoor environmental quality. The holistic approach for the building envelope, atrium design, mechanical and electrical systems, daylighting systems, landscaping and material selection enables the design of an environmentally sustainable building.

The building design is in harmony with the hot humid climate of Malaysia by integrating a multitude of disciplines into the design concept. Although the building incorporates a combination of new concepts and ideas for a sustainable building, the occupants' comfort is placed at the highest priority.



VVIPs – (from left) YB Dato' Sri Peter Chin Fah Kui (KeTTHA Minister), YAB Tan Sri Dato' Hj Muhyiddin Hj Mohd Yassin (DPM) and YBhg Tan Sri Datuk Dr Ahmad Tajuddin Ali (ST Chairman).



Listening attentively – (left) YAB Tan Sri Dato' Hj Muhyiddin Hj Mohd Yassin (DPM) is briefed on energy-efficient bulb by YB Dato' Sri Peter Chin Fah Kui (KeTTHA Minister). Looking on are (second from left) YBhg Tan Sri Datuk Dr Ahmad Tajuddin Ali (ST Chairman) and (second from right) Ir Ahmad Fauzi Hasan (ST CEO).



Launching – YAB Tan Sri Dato' Hj Muhyiddin Hj Mohd Yassin (DPM) penning his signature to signify the launch.



Overwhelming response – A cross section of the VIP guests.



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..... Continue ST's Diamond Building Launch



TEEAM Vice President – Ir Chew Shee Fuee signing in his attendance.



TEEAM Past President & Adviser – Dato' Ir Lee Peng Joo was also present.



Yummy lunch – Guests at the buffet line. Seen in red tie is TEEAM Deputy President, Ir Steven Ng Khoon Hwa. He was at the launch to show TEEAM's support.



Savings on electricity – Ample natural day light.

Design Strategy

The diamond design was selected for its philosophical and practical values and to conceptualise an iconic office building. The diamond symbolises transparency, value and durability; characteristics which represent ST's role and mission as a regulatory body. The unique shape represents an optimum design approach to achieve energy efficiency.

During the design stage, extensive computer simulation of the diamond form was conducted to ensure that the expected daylight and energy performance are met. In order to maintain the occupants' visual comfort, various daylight simulation exercises were conducted to ensure adequate and well distributed daylight. The information obtained from the simulation exercises also provided useful information on the appropriate measures that can be adopted in reducing energy consumption without compromising on the occupants' comfort level.

The Diamond Building's design strategy is encapsulated through four main aspects, namely energy efficiency, water efficiency, indoor environmental quality and outdoor environmental quality.

The building energy index (BEI) is a measurement on the total annual energy used

in a building in kilowatt hours divided by the floor area in square meters. The BEI of a typical office building in Malaysia has an average energy index of 210 kWh/m² per year. The Diamond Building is designed with a BEI of 85 kWh/m² per year at 2,800 hours usage – a 65% reduction in energy consumption. At present, the Diamond Building's average BEI is at 65 kWh/m² per year.

The total integration of the building's systems is also taken into account. The mechanical and electrical systems are linked through the building automation system in order to control the building's performance.

Energy Efficiency

Passive Features

Tilting Facade

- The tilting facade (face of the building) allows self shading for the lower floors, protection from direct sun rays into the building and a smaller building footprint, resulting in a larger area for landscaping.

Sunken Garden Area

- The sunken garden located at the basement serves as a void space which provides natural ventilation to the parking area at the basement level.

Building Orientation

- The building is oriented in accordance with the solar path, (the rising and setting of the sun), minimising the areas impacted by direct sunlight.

Active Features

Photovoltaics

- The building is installed with thin film telluride module type photovoltaic (PV) panels having a total capacity of 71.4 kWp, fed directly to the national grid. This total capacity produced is estimated to cover approximately 10% of the building's energy needs.
- In general, the expected electricity generated is 102,000 kWh per year which is equivalent to RM 40,000.00 cost savings annually or an avoidance of 63,000 kg annual carbon dioxide (CO₂) emission.

Daylighting – Natural and Artificial

- The Diamond Building is designed to obtain 50% of its daylighting needs from natural lighting.
- The crown of the building is a 'diamond dome' skylight made from laminated tempered glass. Located within the dome space are fixed blinds that filter and diffuse the daylight to provide an even and glare-

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..... Continue ST's Diamond Building Launch

free daylight for the offices around the atrium.

- For the atrium, the window size becomes larger deeper into the atrium to cater for the lower daylight levels. The atrium is also optimised for daylight utilisation with Tannenbaum reflective panels.
- The glass facade is installed with low-e glazing that is reflective on the outside, allowing daylight into the building and minimising heat gain from the sun.
- A split window design for all exterior facade together with an internal light shelf helps to redirect natural light into the depths of the working space.
- Energy-efficient lighting such as T5 fluorescent tubes are used throughout the building instead of the conventional T8 fluorescent tubes. Integration with daylight sensors enables the artificial lighting to be switched off when daylight is adequate, resulting in energy savings.
- A roof light trough is incorporated to bring in sufficient daylight to illuminate the lobby area at the seventh floor.

Insulated Concrete Roof

- To reduce heat absorption in the building, the roof top area is insulated using boards with a thickness of 100 mm. The concrete roof is tightly insulated both horizontally and vertically.

Water Efficiency

- Rainwater harvesting
- Efficient water fittings
- Grey water recycling for wetland

Rainwater harvested is used for toilet flushing and combined with efficient water fittings such as dual flush toilets, waterless urinals and water taps equipped with aerators reduces potable water usage by more than 65%. To further optimise the water efficiency of the building, grey water collected from the wash basins is also recycled to irrigate the wetland at the ground floor.

Indoor Environmental Quality

Thermal Comfort via Radiant Cooling

- Cooling in the Diamond Building is provided via radiant cooling slabs that have

chilled water pipes embedded in the concrete slab itself. This is complemented with the conventional cold air supply system.

- As the highest heat capacity of the building is rested in the concrete mass, direct cooling of the concrete slabs with embedded water pipes is the most efficient means to cool the building mass.

Noise Control

- The advantage of the above cooling system is that the air ventilation rate is reduced significantly. The noise from the ducts is also reduced significantly, improving the acoustic comfort.

Use of Sustainable Materials

- The building design is also aimed to provide the occupants with a healthy and productive working environmental. Resources used is reduced via doing away with suspended ceilings, except for small areas to conceal the ducts. This reduces the material used as compared to conventional buildings.
- Green labelled plasterboards are used for the ceiling and the internal partitions. The plasterboards have low volatile organic compound (VOC) emission and has 30% recycled content.
- The floor carpeting is also green labelled for low VOC emission and has at least 10% recycled content.
- The interior paint used in the building is also of low VOC content.
- The workstations contain material that protects against ultra violet (UV) rays.

Outdoor Environmental Quality

Extensive landscaping and a sunken outdoor garden ensure not only connection to greenery but also provide a cool and shaded ambient environmental for the occupants. This, coupled with a green roof helps to further reduce urban heat and effect whereby the hardscape areas are reduced and replaced with soft green landscape.

Buildings near or surrounded by greenery have lower ambient temperature (surrounding temperature) than the ones away from the greenery and it is seen as effective way to lower the ambient temperature.

Green Building Awards

The Diamond Building has been awarded with Platinum Certificates for meeting the standard of the Malaysia Green Building Index (GBI) and the Singapore Building & Construction Authority (BCA) Green Mark.



Irrigation control valve – Rain water that is harvested is controlled by this valve to the sprinkler system to irrigate the wetland.

Quick Facts

- Savings of RM1mil annually in operating costs – about RM950,000 from solar power generation.
- Reduced carbon dioxide emissions of 1,400 tonnes per year, akin to taking 700 cars off the road. (Assuming each car has travelled 12,000 km).
- Building energy index of 65kWh/m² per year (without photovoltaics). The index is the annual amount of electricity used per square metre of a building.
- Photovoltaic cells installed: 71.4 kWp, which yield about 1,400 kWh/m² a year.
- Energy savings of 53% to 61% in overall electricity usage, including lighting and computers, and 34% in cooling.
- Lighting savings of 77% compared to the green mark base, but is expected to increase once task lights are distributed. The green mark base uses a reference building which is representative of buildings in the country.
- The eco-friendly measures cost RM3.4mil – about 6% of the total construction cost. The estimated payback time is three and a half years.



Golf Tournament 2011

Date : 8th September 2011 (Thursday)

Time : 1.00 pm

Venue : Staffield Country Resort, Mantin, Negeri Sembilan

Registration : Contact TEEAM Secretariat

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Global Power Business Meeting

On 4th July 2011, the leading vendors from Korea East West Power Company (KEWP Co) under the Korean Electricity Company Ltd organised a technical forum and one-to-one business meeting at Prince Hotel & Residence, Kuala Lumpur. The objective was to share their experiences and knowledge with the local business community in the E&E sector, and seek for business partnership with Malaysian companies.

The forum and one-to-one business meeting was organised by KEWP Co and supported by TEEAM, TNB and Malaysia-Korea Technology Centre (MYKOR) under Malaysian Industry-Government Group for High Technology (MIGHT). The ultimate objective of the event was to strengthen business relationship between Malaysia and Korea as Smart-Partners.

Mr David Chong Ah Nyap (Vice President) represented TEEAM at the opening ceremony. Some TEEAM officials participated in the forum and business meeting to support the event.

Topics highlighted in the technical forum were:

- Operation and maintenance of Korean power plant by Mr Kim Byoung Hak (Assistant Manager, Win Win Growth Centre of EWP).
- Malaysian electricity generation market overview by Mr Koh Chin Lai (Senior Manager of Performance and Operation Planning, TNB Generation Division).
- Introduction of new technology: realwave pocket analyser: SV Corporation by Mr Joo Jin Yong (President of SV Corporation).
- Introduction to high-speed time synchronised SOE system: Xeonet by Mr Oh Sang Hun (Senior Research Engineer, R&D Institute of Xeonet Co, Ltd).

About 40 Malaysian companies participated in the one-to-one business matching meeting. Some 130 meetings were held with the following representatives of 22 Korean companies:

YouoneTech Co, Ltd http://youonetech.co.kr/eng/main.html	Nuclear & Thermal Power Parts; Turbine generator & compressor parts.
Dong Woo Optron Co, Ltd www.dwoptron.com	Spectroscopy system, gas analyser (continuous emission monitor).
Bethel Engineering Co, Ltd www.magicgrating.com	Magic grating (kind of steel grating, power plant, steel structure).
Young Tech Co, Ltd / YTC www.ytc.co.kr	Positioner and other valve accessories
SKTEC Co, Ltd www.sktec21.com	Expansion joint – free type, control ring type, pressure balanced type.
MIK Technic Co, Ltd	Mechanical seal, gland packing.
Daedong Metal Ind Co www.metalbearing.com	Bearings, valves & analysis, correction for pipe support.
Jung Sin Machinery Co, Ltd www.jungsin.com	Mineral processing (mining & industry), pump, crusher, screen, feeder, grinding mill, classifier, wet cyclone, flotator, agitator, mining plant.
Hong-Sung Precision Co, Ltd www.i-hpc.com	Ignition system for turbine of thermal power plant (DC type).
O.S.C.G. Co, Ltd www.oscg.net	Ex-proof type cable gland and accessories.
Korea Engineering Co www.igniter.co.kr	Ignition system for turbine of thermal power plant (DC type).
Powernix Co, Ltd www.powernix.co.kr	Power factor correction equipment; power capacitor, reactors and controllers; harmonic filters and voltage stabiliser.
KJ Dynatech Inc www.kjdyna.com	Online monitoring system, high voltage testing equipment.
DKC Co, Ltd www.dkcvale.com	Butterfly valves, dual plate check valves, combined non-return valves.
Dae Deok System Co, Ltd www.dds21.co.kr	Monitoring & diagnosis system for industrial equipment.
Vitzrotech Co, Ltd www.vitzrotech.com	Vacuum circuit breaker (VCB).
Korea Lost-Wax Co, Ltd www.lostwax.co.kr	Vacuum / air melted investment castings with machining.
eMainTec Co, Ltd www.emaintec.com	Power plant CCMS (computerised maintenance management system), RCM (reliability centered maintenance) system for CMMS, RBI.
Xeonet Co, Ltd www.xeonet.co.kr	SOE system, industrial control module, high technology system for industrial automatic equipment.
STB Co, Ltd www.stbchip.co.kr	Lithium battery stacks with large capacities of more than 53 stack levels, smart battery IC.
SV Corporation www.svdigital.com	Analysis equipment for noise, vibration.
HKR Co, Ltd www.hkr.co.kr	Expansion joint (metallic / non-metal / rubber), flexible joint, cross over.

It was a fruitful event and TEEAM hoped that some business collaboration will be established between the Malaysian and Korean companies.



Opening ceremony – (from left) Mr Halim Mohd Bistri (Vice President of MIGHT & representative of MYKOR), Mr Lim Han Kyu (Vice President of KEWP Co), Tn Hj Abdul Halim Mohd Noah (Senior General Manager of Operation, TNB Generation Division) and Mr David Chong Ah Nyap (TEEAM Vice President).



TEEAM officials – (from left) Mr David Chong Ah Nyap (Vice President), Mr William Young Chee Keong (Internal Auditor), Mr Chong Yoon Koon (Council Member) and Ir Yong Ah Huat (Council Member).



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Technical forum – Some 70 representatives from Malaysian and Korean companies attended the technical forum.



Business meeting – The one-to-one business matching meetings were successfully held.



Representatives from TEEAM – (from left) Mr Ooi Eng Guan (Council Member), Mr James Ngun Chee Siong (Committee Member), Mr Chong Yoon Koon (Council Member), Mr David Chong Ah Nyap (Vice President), Tn Hj Mohamed Ali Gulam Nabi (Member), Mr William Young Chee Keong (Internal Auditor) and Mr Stan Lim Hui Ming (Council Member).



Speakers – (from left) Mr Oh Sang Hun (Senior Research Engineer, R&D Institute of Xeonet Co. Ltd), Mr Koh Chin Lai (Senior Manager of Performance and Operation Planning, TNB Generation Division), Mr Kim Byoung Hak (Assistant Manager, Win Win Growth Centre of EWP) and Mr Joo Jin Yong (President of SV Corporation).



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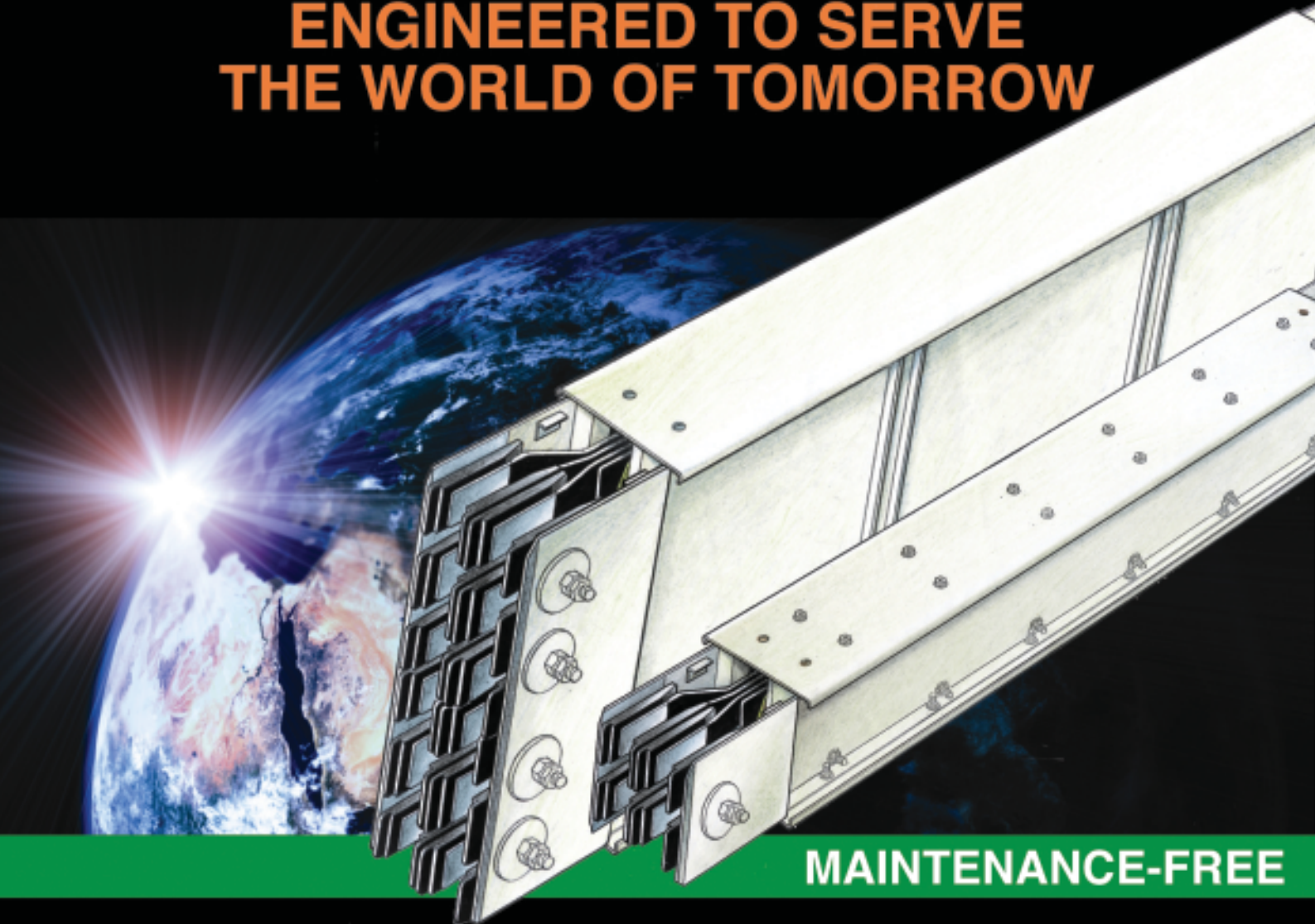




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Seminar on T&D Power

On 18th May 2011, TopRank Corporation Sdn Bhd (now known as Toshiba Transmission & Distribution Systems Asia Sdn Bhd) organised a 1-day Seminar on Power Transmission & Distribution (T&D). The seminar was supported by TEEAM. It aimed to highlight the importance of having a fully type tested MV (medium voltage) equipment in relation to safety operation; to introduce the latest technology in electrical supervisory control and data acquisition (SCADA) & Automatic Meter Reading (AMR) system; and the comparison of Copper & Aluminium transformer (TMC Transformer).

Topics covered were:

- Substation Automation System RTU & SCADA SYSTEM by Ms Carmen Foong Kah Mun, Senior Project Engineer of Ampston Control & Automation Sdn Bhd.
- Introduction to Automated Meter Reading System by Ms Carmen Foong Kah Mun, Senior Project Engineer of Ampston Control & Automation Sdn Bhd.
- How Important is Type Testing by Mr Tan Quok Chiat, Assistant R&D Manager of Ampston Control & Automation Sdn Bhd.
- TMC Transformer by Mr Pascal Filippi, Key Account Manager of TMC Italia Spa.

Some 100 participants attended the seminar. Majority of them were from JKR, TNB and the private sector who are involved in the field of consulting, engineering, construction, project works and contracting. It was an informative and beneficial seminar.



For the album – (from left) Mr Carter Wong Chia Hui (Senior Sales Engineer of TopRank Electric), Mr Andy Fairuz Faizal (Assistant Manager of TopRank Electric), Ms Carmen Foong Kah Mun (Senior Project Engineer of Ampston Control & Automation), Mr Tan Quok Chiat (Assistant R&D Manager of Ampston Control & Automation), Mr Fabrizio Paganini (Chief Technical Officer of TMC Italia Spa), Mr Pascal Filippi (Key Account Manager of TMC Italia Spa), Ir Yong Ah Huat (Managing Director of Toshiba Transmission & Distribution Systems Asia), Mr Mohamad Yassin Salim (Sales & Marketing Manager of TopRank Electric), Mr Irwin Wong (Senior Sales Engineer of TopRank Electric) and Mr Terrence Tan (Sales Engineer of TopRank Electric).



Networking – (from left) Ir Rocky Wong Hon Thang (TEEAM Honorary Fellow cum Technical Adviser), Mr Chai Ah Ming (TEEAM Member), Ms Loke Kum Mooy (Kejuruteraan Elektrik Usahamaju), Mr Chan Kaim Sam (Deputy President of Perak Electrical Association) and Mr Chong Yoon Koon (TEEAM Council Member).



Q&A session – A participant raising question to the speakers.



Speaker – (from left) Mr Pascal Filippi (Key Account Manager of TMC Italia Spa) and Mr Fabrizio Paganini (Chief Technical Officer of TMC Italia Spa).



Speaker – Ms Carmen Foong Kah Mun (Senior Project Engineer of Ampston Control & Automation Sdn Bhd).



Speaker – Mr Tan Quok Chiat (Assistant R&D Manager of Ampston Control & Automation Sdn Bhd).

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TNB ESAH 2011

Tenaga Nasional Berhad (TNB) organised a half day workshop on the 2011 draft version of "Electricity Supply Application Handbook (ESAH)" on 29th March 2011. The workshop aimed to gather feedback and views from associations and government agencies on the draft handbook.

The workshop covered the following presentations:

Presentation 1: Electricity supply application handbook (ESAH) – Review on the second edition by *Ir Parameswaran A Shanmuganathan (Senior Manager, Commercial Management, Commercial Unit, and Green Technology)*.

Presentation 2: Electricity supply application handbook addendum on connection

guidelines by *Dr Abd Rahman Khalid – Principal Engineer (Systems Planning and Development, Asset Management Service Unit)*.

Presentation 3: Metering guidelines by *Ir Abdul Aziz Ahmad – Principal Metering Engineer (Large Power Metering, Metering Services Department)*.

A 15-member delegation from TEEAM attended the workshop. After the speakers' presentation, the workshop participants were divided into three work groups for specific discussion on connection guidelines, metering guidelines and supply application.



At the workshop – Participants listening attentively to the presentation on ESAH.

The draft version of ESAH could be downloaded from TEEAM website (www.teeam.org.my) for reference. Please take note that the draft is not final yet. Kindly contact the TEEAM Secretariat for updates.

Work group discussion:



Supply application.



Connection guidelines.



Metering guidelines.



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