

Challenges and Opportunities in Electrical Industry - Part 13

This paper is prepared by Ir Chew Shee Fuee, TEEAM Vice President.

Power Factor Correction Related Issues

Power Factor (PF) Correction is one of the basic requirements to ensure sufficient voltage level as well as efficient distribution of energy. It is important to note that capacitors do not last very long and with the modern equipment that produces more harmonics currents the life span of each capacitor can be very much shortened. In my past articles I have mentioned about keeping the system voltage at the lower end which had proven to prolong the life span of capacitors. This time we need to address the improvement of PF with the perspective that it is a measure of energy efficiency. Imagine if the required PF is 0.85 which is mandatory and you can improve it to 0.90. There is a 5% increase in the total energy distributed. It is correct to say that this improvement will benefit the electricity supplier but it will also mean that the overall distribution in the area or region will improve and voltage profile can be better managed.

There are two related issues recently encountered and from them we can find solutions and provide improvements to our electricity supply system.

PF Penalty Imposed on LV Commercial Tariff B

The large number of TNB commercial consumers' meters were not capable of measuring the PF previously. These old meters are being replaced by the modern electronic version and if any consumer's PF is lower than 0.85 a penalty will be imposed.

The electrical appliances and equipment used in these offices do not have good PF individually and there is a high possibility that PF in general will not meet the 0.85 minimum requirement.

Therefore there is a need to address this requirement now. There are obviously two solutions that come to mind. The first is to find out the equipment with low PF and connect the relevant capacitors to provide the compensation. The second is to provide an automatic PF correction board. This will require PF correction relay and a bank of capacitors to be switched in for the purpose. There may be another alternative to have a fixed amount of capacitors to be switched on during office hours only so that PF correction can be provided at a cheaper solution.

It is the TNB which highlighted the above need to TEEAM and I hope we can provide the necessary solutions to those in need.

PF Penalty Imposed on MV Industrial Tariff E

It is customary for the electrical supervising engineers to advise their clients to look out for any PF penalty in the TNB monthly bills. Previously the low PF penalty is easily noted on the first page of the bill. Since the end of 2008 this format had been slightly altered. It is less obvious to notice the low PF penalty charge on the first page of the bill. The individual items for billing are recorded on page two of the bill.

One of my clients was paying low PF penalty for a few months before noticing them. My monthly visits and visual inspection of the PF meters did not discover the low PF. PF measurement is made by the accumulated KVARH (Kilo Voltage Amperes Reactive Hour) consumed. The reason for the low PF was due to failures of capacitors. The capacitors are only checked once in two years and in this case there were also some new equipment added to the installation. The low PF situation and charges are expected but it will be in the best interest of everyone if the PF reading can be displayed in the bill irrespective of whether any penalty is charged. It will serve as a measure to determine the performance of the PF correction board.

TEEAM's Proposal to TNB on PF

The above issues were discussed in the TEEAM Council Meeting. We are in the process of making a formal proposal to TNB. The contents will be as below.

The section in JUMLAH KECIL has the following items:

JUMLAH CAJ (Total Charge)
PELARASAN ANGGARAN (Estimated Adjustment)
PELBAGAI CAJ (Various Charges)
PENALTI (Penalty)
BIL SEMASA (Current Bill)
TUNGGAKAN (Arrears)
CAGARAN TAMBAHAN (Additional Collateral)
JUMLAH (Total)
PENGENAPAN (Settling)
JUMLAH YANG PERLU DIBAYAR (Total needs to be paid)

However when there is a surcharge for poor/low power factor it will not be listed with any of the above items. It is listed on the Page 2 of the bill.

The Manager of a plant has the ability to pick up PF surcharge if he reads the entire two pages otherwise he will discover it much later.

It is our opinion that PF surcharge should either be listed or inserted under PELBAGAI CAJ or PENALTI for easier identification.

Further to the above we believe that if the actual monthly PF can be prominently displayed in the bill even if there is no PF surcharge it will prove to demonstrate the efficient use of electricity in the installation. This will also indicate to the client if their PF is descending or getting closer to the limit for surcharge. We may even suggest in the future that high PF in any installation be rewarded with some monetary value.

The above proposal is made on the basis that we can promote Energy Efficiency by encouraging consumers to maintain high PF in their installations.

There is also a request that off peak MD (Maximum Demand) be listed even though this item is not chargeable. Again this will assist the consumer in knowing their actual usage during off peak hours and make the necessary adjustments.

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Ir Chew is the Vice President (Engineering Construction and Services) of The Electrical and Electronics Association of Malaysia (TEEAM). He was TEEAM President for 2001 - 2003 and 2003 - 2005. He is the Past President of the Asean Federation of Electrical Engineering Contractors (AFEEC).

Ir Chew is the Managing Director of G. H. Liew Engineering (1990) Sdn Bhd and QATM Engineering Services Sdn Bhd. 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 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 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 switchgear and relays. His work also includes electrical supervision of substations and electrical audit. He presents lectures on electrical apparatus and the protection system. He can be reached at E-mail: sfchew@ghliew1990.com

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Is Light Pollution Killing Our Birds?

Colin Henshaw and Graham Cliff believes that light pollution is reducing the numbers of insects on which many birds rely.

In 1994, the Journal of the British Astronomical Association carried a letter from one of the authors (Colin Henshaw) entitled *The Environmental Effects of Light Pollution*. The letter concluded by predicting that the anticipated reduction in the insect population caused by light pollution would affect predators higher up the food chain.

Recent research has shown a reduction in the populations of moths, spiders, sparrows and amphibians, supporting the case for light pollution being considered a threat to the environment as well as to astronomers - who find the glare interfering with their observations - and householders - who complain of the visual intrusion caused by security lights and insensitive street lighting.

It is common knowledge that street and security lights attract insects: indeed, 2000-watt light traps are used by scientists to study insect species in the Brazilian rain forest. The authors think that the increasing numbers of urban street and security lights must have a measurable impact on the environment, as insects fly around the lights all night and eventually fall to the ground exhausted, no longer having the energy to feed themselves or to procreate. Consequently, with lights often left on all night, 365 nights a year, the number of insects must be significantly reduced.

"As a child, I was amazed by the profusion of insects to be seen in the countryside," recalls Colin Henshaw. "But, returning home to Manchester, I noted there were fewer insects."

Considering the number of lights in an average city and the rate at which this number has grown in recent years, they must sweep up millions of insects every day. So it comes as no surprise to find that many urban and suburban environments are now increasingly sterile as far as insects are concerned.

Insects are the primary food source for many predators (such as bats, birds, lizards and frogs), and their decline has a serious knock-on effect for other creatures.

The 1994 letter also pointed out that insects are important pollinators. If their numbers go down, then so too will the number of successful flower pollinations, producing a vicious circle of decline in the biodiversity of plants. Two facts are worth noting: first, Dr Kelvin Conrad of the Rothamsted Research Centre has remarked that Holland is the most sterile country in Europe; second, Dr P Cinzano of Padua University has produced satellite evidence that, in Europe, light pollution is at its worst in Holland. In the mid 1990's, Colin Henshaw's father commented that he had not seen a thrush in the garden for ten years. Most people in Britain are aware of the decline in the number of house sparrows and that of many other previously common or 'garden' birds. Sparrows, and their hatchlings, had been presumed to

be wholly granivorous but recent research by Dr. Kate Vincent has shown that hatchlings in fact feed on insects (or spiders) to obtain protein, so, if they do not get enough insects when young, they do not survive.

Spiders, too, feed on insects, so if the number of insects goes down, spider numbers will likewise decline. And a discussion of insects cannot overlook recent reports on the populations of British moths. For instance, the environmental group Butterfly Conservation has found a decline of a third in the larger moth species in Britain since 1968; some have been reduced by as much as 98%.

This decline in moths and sparrows has mirrored the expansion of street lighting in the UK, and elsewhere around the world. As more and more conurbations have leaked out more light into the environment, the effect on the insect population must have been devastating. One German study presented at a symposium in 2003 concluded that a single streetlight would kill, on average, 150 insects per night. Philipp Heck, President of Dark Sky Switzerland, has suggested that the 50,000 or so streetlights left on all night in Zurich kill over 1,000,000 insects per night.

Whether the loss of insects is a direct result of street lighting is yet to be proved conclusively. However, what is not speculative is the cost of light pollution in money and energy. One 500-watt security light on every night for a year is the source of more carbon dioxide emissions, in the electricity it consumes, than a typical fuel-efficient car being driven more than 8000km.

The current fashion for over-lighting our natural environment has many adverse consequences. Reducing light pollution would save money and energy, improve the environment for us all, and help to return our country's biodiversity to a healthy level. The technology is available to turn off street and security lights when they are not needed:

street-lighting trials in Denmark showed that the capital costs were recouped within a year from the energy savings.

Light pollution is a term used by astronomers to describe an effect that prevents us observing the night sky and, as such, it has come to be regarded as an issue of concern only to anoraks and nerds. However, as evidence from different branches of science comes together, it begins to seem as though the solution to one problem might also be the solution to others.

It seems, then, that the predictions of 1994 are now at last being vindicated. If we wish to see a reversal in the decline of some of our native species of animals, then we should do something to control the light pollution that appears to have had such a hidden, damaging, effect on them. If we are to reverse current trends, something needs to be done before it is too late. Whilst the idea of 'Just In Time' is well and good in industry, we do not want to see 'Just Too Late' in our environment, indeed for our world.

Colin Henshaw teaches in Dhaka, Bangladesh, and Graham Cliff was, until recently, an Analytical Electron Microscopist of Manchester University.

The authors would like to thank Professor M E Bailey, Director of the Armagh Observatory for reviewing the text.

Source: CHALLENGE, Summer 2006



European light pollution at night circa 1998. Photo courtesy of P. Cinzano and F. Falchi (University of Padova, Italy), C. D. Elvidge (National Geophysics Data Center, NOAA, Boulder, Colorado, USA). Copyright Royal Astronomical Society.

Light pollution becomes a Statutory Nuisance

The first UK law tackling light pollution came into force in April. Exterior lighting joins noise and smells on the list of things that can be treated as a Statutory Nuisance under the Environmental Protection Act 1990. This means that local authority Environmental Health Departments can take legal action where 'exterior light is emitted from premises so as to be prejudicial to health or a nuisance'.

But the new law doesn't tackle all forms of light pollution, only incidents of particularly bad lighting from some types of premises which cause people real nuisance.

Stronger action is being taken elsewhere: see www.darksky.org



House sparrows are declining: recent researches show that their young rely on insects for food.



The Garden Tiger Moth, one of the large moths whose numbers are declining. Copyright courtesy of Janet Graham with the assistance of Andrew Graham.



日期: 2009 年 11 月 25 日
Date: Nov 25, 2009

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No. of pages 3

Issue date June 13, 2005

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Malaysia Skill Competition 2009

The 2009 Malaysia Skill Competition was organised by the Construction Industry Development Board (CIDB). The competition was held from 28th to 31st October 2009 at Akademi Binaan Malaysia Wilayah Tengah, Jalan Chan Sow Lin, Kuala Lumpur. TEEAM was present to give its full support.



Opening ceremony – The competition was officiated by YB Dato' Yong Khoo Seng (Deputy Minister of Works, Malaysia).

TEEAM wishes to extend its gratitude to Chi-Tak PJ and Schneider Electric for sponsoring T-shirts for TEEAM's trainees.



Support from TEEAM – TEEAM's building wiring installer course trainees were present to give their full support.



Competition in progress – Trainees witnessing the electrical trade category.



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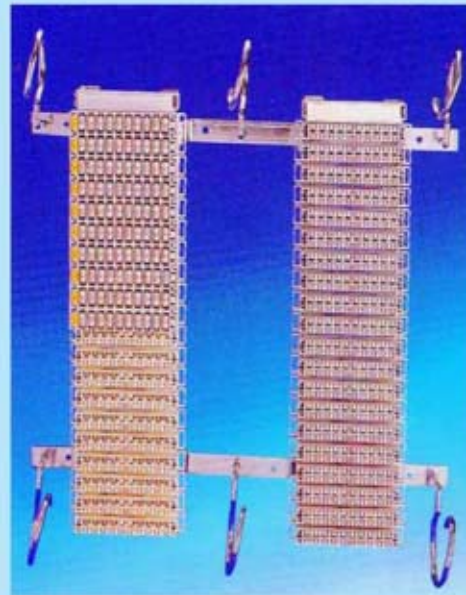
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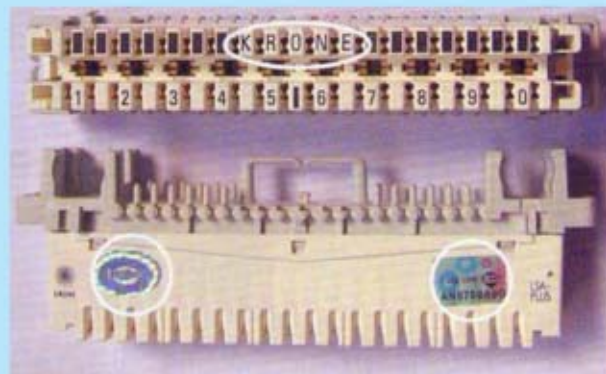
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Title : Build Info, December 2009 Publisher : Construction Industry Development Board Malaysia	Title : International Metal Working News for Asia, February 2010 Publisher : Ringier Trade Media Ltd	Title : Tenaga Link, Vol. 2/09 Publisher : Tenaga Nasional Berhad
Title : CIDB News, Issue 3/2009 Publisher : Construction Industry Development Board Malaysia	Title : Jurutera, January & March 2010 Publisher : The Institute of Engineers, Malaysia	Title : The 6th China Import & Export Commodities Exhibition (Malaysia) Show Directory Publisher : ES Event Management Sdn Bhd
Title : CIE News, No. 90 Publisher : International Commission on Illumination	Title : Kenshu, Winter 2010 Publisher : The Association for Overseas Technical Scholarship	Title : The Strategist Vol. 1, 2010 Publisher : Asian Strategy & Leadership Institute
Title : Component Cost Index of Mechanical and Electrical Works, November 2009 Publisher : Department of Statistics, Malaysia	Title : Malaysia SME, February 2010 Publisher : Empire Publishing Sdn Bhd	Title : Trademart, September-October 2009 Publisher : Malaysia External Trade Development Corporation
	Title : MASSA News, December 2009 Publisher : Malaysia South-South Association	Title : What's new from Malaysia, 4th Issue 2009 Publisher : Malaysia External Trade Development Corporation
	Title : MGCC Quarterly, March/April 2010 Publisher : Malaysian-German Chamber of Commerce and Industry	



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Awareness Programme on GST

The Royal Malaysian Customs Kuala Lumpur Federal Territory organised a half day awareness programme on the introduction of Goods & Services Tax (GST) for consumers on 16th March 2010. The objective of the programme was to introduce the Malaysia GST model and its implications to the consumers as well as to discuss and obtain inputs on consumerism issue in local area. Some TEEAM members attended the event. The programme covered types of tax, model of GST, its mechanism, sample of GST calculation, consumers' roles, government's action and consumer's price guideline. The government has recently announced that GST will be deferred to a later date.

GST is a multi-stage consumption tax levied on goods and services at all levels of business transactions. GST replaces the current sales tax and services tax (SST). GST is aimed at making our taxation system more effective, efficient, transparent and business friendly.

GST is imposed on the value added along the supply chain from manufacturer down to retailer. Production and sales go through several stages of GST collection and payment. Everyone in the supply chain (ie supplier, manufacturer, wholesaler, retailer and consumer) pays GST to their suppliers for the goods or services they purchase and charge/collect GST on the goods/services they sell.

Why GST?

GST is a better and fairer tax system compared to SST as GST will:

- **Lower business costs** – Under the current system, some businesses pay multiple taxes and higher levels of tax-on-tax (cascading tax). With GST, businesses can benefit from recovering input tax on raw materials and incurred expenses, thus reducing costs.
- **Increase global competitiveness** – Prices of Malaysian exports will become more competitive on the global stage as no GST is imposed on exported goods and services, while GST incurred on inputs can be recovered along the supplies chain. This

will strengthen our export industry, helping the country progress even further.

- **Enhanced compliance** – The current SST has many inherent weaknesses making administration difficult. GST system has in-built mechanism to make the tax administration self-policing and therefore will enhance compliance.
- **Reduce red tape** – Under the present SST, businesses must apply for approval to get tax-free materials and also for special exemption for capital goods. Under GST, this system is abolished as businesses can offset the GST on inputs in their returns.
- **Equity** – With GST, taxes are leveled fairly among all the businesses involved, whether they are in the manufacturing, wholesaling, retailing or service sectors.
- **Fair pricing to consumers** – GST eliminates double taxation under SST. Consumers will pay fairer prices for most goods and services compared to SST.
- **Greater transparency** – Unlike the present sales tax, consumers would benefit under GST as they will know exactly whether the goods they consume are subject to tax and the amount they pay for.
- **Not subject to GST** – We do not pay GST on certain goods/services, ie Zero-rated supplies and Exempt supplies.
- **Zero rated supplies** – These are taxable supplies that are subject to a zero rate. Businesses are eligible to claim input tax credit in producing these supplies, but cannot charge output tax to the consumer.
- **Exempt supplies** – These are non-taxable supplies that are not subject to GST. Businesses are not eligible to claim input tax credit in producing these supplies, and cannot charge output tax to the consumer.

It was informed that suppliers, manufacturers, wholesalers and retailers will benefit as they are able to recover GST incurred on inputs. This will reduce the cost of doing business thus enabling fairer prices for consumers.

The model of GST imposes on three types of sale, ie standard-rated sales, zero-rated sales and exempt sales. Standard rated sales will be

subject to specific 4% tax and registered persons will be entitled to recover their input tax. Zero-rated sales will be subject to 0% tax and will be applied to registered persons who are entitled to recover their input tax. The exempt sale is not entitled to recover on input tax.

GST mechanism allows registered persons to claim back the paid GST on business inputs automatically for taxable sales (ie standard rated sales and zero rated sales). The GST mechanism for transacting business with sales are excluded ie no tax will be collected on the services provided, such as banks cannot recover input tax which has been paid.

GST is to be collected by the person who registered under GST Act. The registration is compulsory if business has annual sales of RM 500,000 or more; and small businesses that annual sales is less than RM 500,000 such as retail shops will be excluded from the GST system and they can sell the goods without charging GST.

Goods exempted from GST includes daily basic foods, such as rice, sugar, flour, cooking oil, salt, spices, vegetables, fish, chicken, meat and egg. Services exempted from GST include electricity supply to domestic consumers for the first 200 kWh and water supply to domestic consumers for the first 35 cubic meters.

Certain basic goods and services are not subject to GST for social-economic objectives. These include basic foods, residential accommodation, education, health services, life insurance/takaful, banking services, public transportation (such as train, LRT, bus, taxi, ferry, boat, highway toll fee) and domestic consumption of water supply and electricity up to a certain limit.

It was informed that more programmes on the GST will be held in the future. TEEAM will be informing members for participation.

For further information and inquiry on GST, please contact The Royal Malaysian Customs Kuala Lumpur Federal Territory at Tel: 603-8882 2420 / 7806 7200 or E-mail: gst@customs.gov.my.



Guangzhou International Lighting Exhibition 2010

9th to 12th June 2010

Guangzhou International Lighting Exhibition 2010 is in its 15th edition and is established as the world's second biggest lighting show for lighting products and services. Exhibit profile includes accessories and electronics components; decorative lighting; electric lights; LED technology; light control, management & measurement system; professional lights; and technical lighting.

TEEAM intends to organise a trade delegation to the exhibition. Members who are interested to join the delegation may contact the TEEAM Secretariat for details.

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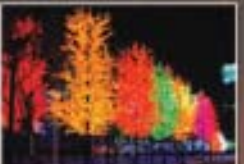
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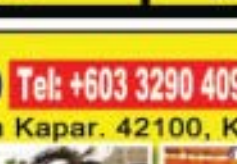
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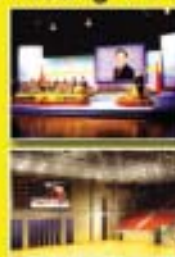
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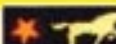


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New Members

The following new members have been approved and accepted by the TEEAM Council (as at 24th March 2010). A warm welcome to all the new members and special appreciation is extended to those who introduced these new members. For those who are not yet members..... why wait? Join us and find out how our association can offer our services to you.

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Year Lite Electrical Sdn Bhd Lot 6-0-10, Block 6, Jalan 1/130, Meadow Park, Off Jalan Klang Lama, 58200 Kuala Lumpur. Tel: 603-7981 8968 Fax: 603-7983 1726 E-mail: yearlite_e@yahoo.com Contact Person: Mr Yoon Loy @ Lim Yoon Loy <i>Business: Electrical contractor.</i>	Central Cables Berhad 7862, Batu Berendam, 75350 Melaka. Tel: 606-232 5821 Fax: 606-232 8311 E-mail: cccbable@tm.net.my Website: www.central-cables.com Contact Person: Mr Koh Wee Leong <i>Business: Manufacturer of cables and wires.</i>
TJ/H2b Analytical Services Sdn Bhd No. 16, Jalan Industri USJ 1/6, Taman Perindustrian USJ 1, 47600 Subang Jaya, Selangor Darul Ehsan. Tel: 603-8023 6408 Fax: 603-8023 6410 E-mail: sales@tjh2b.com.my Website: www.tjh2b.com Contact Person: Encik Hasmon Abdullah <i>Business: Transformer oil testing laboratory.</i>	RON-SON Electrical & Mechanical Engineering Sdn Bhd 63, Jalan Thambapillai, Off Jalan Tun Sambanthan, 50470 Kuala Lumpur. Tel: 603-2272 3133 Fax: 603-2272 3266 E-mail: ronson@tm.net.my Website: www.ronson.com.my Contact Person: Mr Andy Neoh <i>Business: Electrical & mechanical engineering.</i>
Hansmens Marketing Sdn Bhd No. 21, Jalan Tiara 3, Tiara Square, Taman Perindustrian UEP, 47600 Subang Jaya, Selangor Darul Ehsan. Tel: 603-8023 9700 Fax: 603-8024 2700 E-mail: gangesh@hansmens.com.my Website: www.hansmens.com.my Contact Person: Mr Gangesh <i>Business: Trading & services of industrial fans and power supplies. Products include AC-DC power supplies, DC-DC converters, DC-AC inverters, AC fans and DC fans.</i>	Mighty Synergy Industries Sdn Bhd No. 16, Lorong Industri 15, Taman Bukit Panchor, 14300 Nibong Tebal, Penang. Tel: 604-593 1818 Fax: 604-593 1919 E-mail: msi@streamyx.com Website: www.msi.com.my Contact Person: Mr Yap Teck Leong <i>Business: Manufacturer of indoor and outdoor lighting, ceiling fan and electrical metal board.</i>
Chai Metal Works No.2 & 4, Jalan Taming 9, Taman Taming Jaya, Kawasan Perindustrian, 43300 Balakong, Selangor Darul Ehsan. Tel: 603-8961 3149, 8961 3578 Fax: 603-8962 2771 E-mail: chaimetalworks@hotmail.com Website: www.chaimetal.com Contact Person: Mr Chai Wei Loon <i>Business: Switchboard manufacture, trading in switchboards & electrical components.</i>	Tenaga Switchgear Sdn Bhd Lot 3, Jalan Teknologi 3/6, Seksyen 3, Taman Sains Selangor 1, Kota Damansara, 47810 Petaling Jaya, Selangor Darul Ehsan. Tel: 603-6140 6520 Fax: 603-6140 6530 E-mail: sales@mytsg.com.my Website: www.mytsg.com.my Contact Person: Encik Mohd Hisham Ab Halim <i>Business: Manufacturing high voltage switchgear.</i>
Koh Wee Leong No. 21, Jalan AP 10, Taman Ara Permai, Batu Berendam, 75350 Melaka. Mobile: 012-334 5881 E-mail: wlkoh@pc.jaring.my / kohwl@central-cables.com <i>Business: Manufacturer of cables and wires.</i>	Find out the benefits of joining TEEAM www.teeam.com



Membership Recruitment Campaign

TEEAM appeals to members to help in recruiting companies and individuals to join the association to strengthen TEEAM membership base. Incentives are offered by the Membership Recruitment Committee. Members introducing a company member will be entitled for 2 points, while introducing an individual member will be entitled for 1 point. The points can be accumulated and used to redeem free advertisements in Suara TEEAM or redeem membership subscription. For details, please contact the TEEAM Secretariat at Tel: +603 – 9221 4417. Membership application form can be printed from the TEEAM website at www.teeam.com

In Memory of the Late Mr Milton Tan



Condolence message from Ir Chew Shee Fuee of TEEAM

On behalf of TEEAM, I wish to extend our deepest sympathies and condolences to the family of the late Mr Milton Tan who passed away on 5th March 2010. Milton of SECA (Singapore Electrical Contractors and Licensed Electrical Workers Association) took very keen interest in the activities of AFEEC (Asean Federation of Electrical Engineering Contractors) and FAPECA (Federation of Asian and Pacific Electrical Contractors Associations). Milton was a founder member of AFEEC and FAPECA. He contributed enormously to the progress of AFEEC & FAPECA and we pay respect for his great efforts. His absence will be deeply felt.

Condolence message from Mr Moeljadi Oetji of AKLI

The first time I met Mr Milton Tan was in AFEEC Meeting in Jakarta in 1998 and since then I always met him in every AFEEC/FAPECA Meeting. He was friendly, joyful and very energetic although he was not young. Everybody likes him very much. As AFEEC and FAPECA founder, he always took part and gave full attention to the AFEEC/FAPECA activities. He always called me not MOELJADI but BOLEH JADI which means okay in Indonesian/Malaysian. He gave so much contribution and support to strengthen AFEEC cooperation. It is a great loss to AFEEC with the passing away of the late Mr Milton Tan.

On behalf of AKLI (Association of Indonesian Electrical and Mechanical Contractors), may I again express our deepest condolences to Milton's family. May God bless him and may he rest in peace.

Condolence message from Mr Sapon Laosuwan of TEMCA

I have known Mr Milton Tan since I was the first time Committee of TEMCA (Thai Electrical & Mechanical Contractors Association) and I met him in the various AFEEC activities. Since then I have never forgotten this senior who was always kind, bright and cheerful. In my clear memory, every time we met each other, we always discussed a lot of topics, especially Thai fruit, the durian, which he told me was his most favourite fruit.

In AFEEC meetings, Milton would not only attend regularly but he also contributed significantly to AFEEC works. His impressive contributions will always remain close to our hearts. May God brings him to heaven and live in peace forever.

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Year of the Golden Tiger

4th February 2010 to 3rd February 2011

This article is extracted with courtesy of "Coverage 2010 January" magazine published by The China Press Berhad.

Tiger in Love

2010 sees the Golden (Metal) Tiger Chinese New Year coinciding with the Valentine's Day, a combination of two prominent dates, and certainly a happy romantic meeting of the Eastern and Western culture, for once.

Throughout the world, Tiger is the symbol of strength, power, bravery, charm and authority. It is featured in state symbols, including that of Malaysia, in the Coat of Arms. The leading bank in the country, Maybank, the country's first national car, Proton, and the Football Association of Malaysia, all have the tiger as their emblems or logos.

Symbol of Power

For thousands of years, tiger has been part of Chinese civilisation, used by the imperial court right down to the laymen, in myriads of forms and manners with widely varied connotations.

For those in power, its authoritative ranking is only second to the Dragon, as far as social hierarchy is concerned. The Chinese proverb 'Dragon fighting with Tiger' means a clash between the titans, and 'Dragon Soaring and Tiger Jumping' for activity that is hyperdynamic. "Green Dragon White Tiger" is most welcome in the world of fengshui, as it means excellent guard against the evil elements. The box office Chinese movie "Hidden Dragon and Couching Tiger" starred by Chow Yun Fatt and our very own Dato' Michelle Yeoh is of course all too well-known.

To the Chinese, Tiger can also mean severe danger and risk, as in phrases and proverbs such as "Mouth of Tiger" (meaning a highly strategic location or the dangerous crossroads), and "Let tiger return to mountain" (meaning giving freedom to a dangerous enemy). A high-handed government is described by the proverb "An oppressive government is worse than a tiger", while "A mountain cannot house two tigers" means that there can only be one decision maker in a power entity.

In the wild as well as the society, many things that are fearsome are also affixed with the word 'tiger': freshwater tiger (for toman – the top predatory fish in Malaysian lakes and



Tiger is the symbol of strength, power, bravery, charm and authority.

rivers), tiger general (for superb fighters), female tiger (for fearsome wife), and paper tiger (weakling who pretends to be strong). However, for some interesting reasons, the common lizard is called 'Wall Tiger', even though it is quite harmless.

On the other hand, the tiger also has its gentle sides of characters, as depicted in popular proverbs such as 'Even a fierce Tiger will not eat its young'. However, such smiles are few and rarely used.

Tiger Outlook

This year's key element is Metal with inherent decisiveness, initiative and masculine Yang characteristics: hard, fast, solid, dry, focused, hot, and aggressive. As such, astrological predictions for 2010 promise many pleasant moments in personal life and many upheavals in careers, finances and politics.

On the whole, this year is considered as favourable, but at the same time, no one would have time to rest. This is because Tiger, by nature, sees everyone as a potential rival. The grandeur and poverty go together and the years would be generally difficult, often even harsh for society. At the other end of the scale, however, there are also fengshui specialists

who suggest that the Year of Tiger 2010 does not favour all the 12 Chinese Zodiac animals, and everyone should be prepared for the worst. It is therefore suggested that all efforts should be directed at preventing the 'Tiger head with Snake tail' syndrome, which means a rosy start which soon ends up in failure.

Business Prospects

The year of the Golden Tiger is made up of Metal Tiger Year, Earth Tiger Month, Wood Rooster Day and Earth Rabbit hour. There are 4 wood, 2 metal and 2 earth elements. Although there is no fire or water element this chart combination is still quite strong. The favourable elements are metal, earth and fire, while water and wood are negative elements. Therefore businesses involving earth, metal and fire elements (such as energy, computer, construction, automobiles, real estates, communication, show business and food business) would have the advantages, while those involving wood or water (including

wood-based industries, travel, transportation, trading, fishing and clothing) had to work much harder.

To this effect, a local renowned fengshui specialist Chai Zhong Zheng even predicted that the water supply contract between Malaysia and Singapore could be an issue again.

The Tiger Personality

Tiger people are difficult to resist, for they are magnetic characters and their natural air of authority confers a certain prestige on them. They are tempestuous yet calm, warm-hearted yet fearsome, courageous in the face of danger yet yielding and soft in mysterious, unexpected places.

They enjoy life full of challenges and unexpected events, like visiting unusual places and meet interesting outstanding people. Other people in their part are easily attracted by the tiger's enthusiasm and the course of life.

A Tiger person finds pleasure in the unpredictable, and while others would rather make a backward step, he or she is not afraid to explore the new and unusual. But it is not that simple to interest the tiger. What they really need is first-hand experience.

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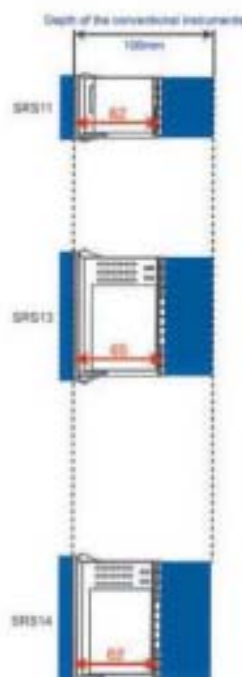
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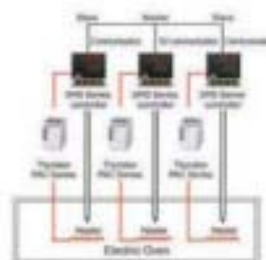
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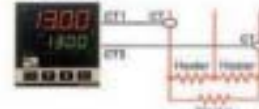
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..... Continue Year of the Golden Tiger

Usually open and frank, Tiger people are likely to withdraw and they can be aggressive when trapped. As soon as the tiger person has regained his or her sense of security his confidence also returns, enabling him to set out once more.

Tigers usually tend to trust their instincts, though there is another side of their personality, which assesses situations thoughtfully before launching any actions. Their friends usually secretly admire their determination and optimism, though sometimes may find it complicated to share the tiger's enthusiasm and can be pushed away and left behind.

In spite of the fact that tiger people can be courageous and generous friends, if they are not able to achieve what they want, they can be inflexible and self-centered. So if your friend was born in the year of the tiger, there will be highs and lows in your friendship, but the friendship itself will remain firm.

People born in the year of the tiger are often sensitive and emotional. They are capable of great love, but they may also become too intense about it. Sometimes they are territorial and possessive. If your friend or beloved is a tiger type and he or she wants you to take his or her side against the bad guys, you most likely will do it. As lovers, tiger people are passionate and romantic, but the real challenge for them is to grasp the true meaning of moderation.

Tiger Career

Tigers like to work; they are hard-working and dynamic by nature. If you assign a task to a Tiger, the job will be undertaken and accomplished with enthusiasm and efficiency.

Optimism, determination and initiative are their strong points. While some projects may succeed because tiger has the drive to see them through to the end, the other will be left half-way because of the tiger's inability to deal well with failure. Tiger person becomes flustered when colleagues discover that he/she have misjudged the situation.

The Tiger is said to be vivid, lively and engaging. Another attribute of the Tiger is his incredible bravery, evidenced in his willingness to engage in battle or his undying courage. Maybe he's so brave because he is so lucky. That's why the Chinese believe that having a Tiger in the house is the very best protection against the evils of fire and burglary.

Tigers do not find worth in power or money. They will be completely honest about how they feel and expect the same of you. On the other hand, they seek approval from peers and family.

Tigers are well liked. Often, failing at a given task or being unproductive in his personal or professional life can cause a Tiger to experience a depression. Criticism from loved

ones can also generate this type of Tiger reaction. Still, like all felines, Tigers always land on their feet, ready for their next act in life, pursuing it with unyielding energy and hunting it infallibly.

Tigers are also incorrigibly competitive - they simply cannot pass up a challenge, especially when honor is at stake, or they are protecting those they love. Tigers are unpredictable and it would be unwise to underestimate their reactions.

They may appear cool, but they have the Big Cat's instincts to pounce at a moment's warning. Natural leaders, they have a strong sense of their own dignity, and if they find themselves in the ranks, they can be stubborn and obstinate. In positions of power they can be difficult though stimulating bosses.

Tigers are intelligent, alert, and farsighted. They have their fingers on the pulse. Good strategists and tacticians, they often have a hidden agenda. As long as they do not risk their luck too often, and keep their restless nature under control, their tactics usually pay off in life.

However, Tiger can not stand betrayal and chaos, and couples with deep issues may be forced to separate one way or the other.

Tiger Health

Tigers tackle everything in their lives in brief bursts of energy, collapsing afterwards in a heap of exhaustion. Normally they are soon back to full strength, but their approach can cause their long-term health to suffer. They should take it a little easier and learn to pace themselves to keep active longer and to prevent early burnout. They are blessed with flexibility and recover quickly from illness or pain. They owe it to themselves to relax a little. Along with the fitness of their long-term health, Tigers must be aware of how they react to and are affected by the consequences of their tempers. A Tiger's meanest enemy is the damage he can inflict upon himself in the midst of a temper tantrum.

Tiger at Home

Tigers take pride in being different than others and generally illustrate their originality best in their homes. Tigers can utilize their atmosphere with color and light. A Tiger's home will be filled with exotic treasures from trips past and will include items such as Tibetan prayer mats or African carvings, confirming their desire to travel to distant places.

Tiger on the Job

Quickness and alert intelligence make Tigers fast learners. Tigers need challenges, otherwise they are easily bored, which explains why Tigers tend to change careers more often than other Chinese Zodiac

Animals. Some Tigers don't change their occupations frequently enough and thus tend to juggle jobs all at the same time.



Money Matters

Tigers believe in luck. They like to spend money, and also to share it. They can be quite impulsive spenders because they know they can always make more. Somehow, as luck would have it, they discover the end of the rainbow just before complete bankruptcy. They are willing to lose a fortune in their lifetime, if it means they will wind up with two.

Tiger on Vacation

Tigers like to live on the edge, to travel long distances conquering thrills and fears along the way. Never the homebody, Tigers prefer activity and excitement to relaxing days by the ocean reading a good book. They leave on a whim and return when they are ready to plan their next vacation. Action-filled getaways are sure to get a Tiger away for a long time!

Friends and Enemies

Tigers, born under the third Animal sign of the Chinese Zodiac, have the ability to lift the spirits of even the most depressed or lonesome individual they meet. Because of that attitude, Tigers have no problem making new friends. Actually, a Tiger person without a friend is quite miserable and sad. Like the Dragon, the Monkey, and the Rat, Tigers are most comfortable surrounded by friends and family. As friends, Tigers are exceptionally warm and incredibly generous with their time, attention and money. Friends are always welcome in a Tiger's home. Few friends could be as caring and affectionate, as quirky and surprising, or as genuinely interested as the Tiger.

Tiger in Love

Tigers are incredibly sexy people, beautiful to most people and sensually romantic. They are spontaneous lovers who never lose their creative spark or flare for an evening of passion. They offer their partner a hint of danger and exhibit a curiosity for the unknown.

Once a Tiger has committed himself to you, he tends to dominate or lead you. This is a natural nurturing mechanism and must be kept under close watch to avoid complete control.

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..... Continue Year of the Golden Tiger

For the negative effects a Tiger can have on his partner, there are a zillion positive things he will bring to the relationship. Trust, passion, politeness and spontaneity are only a few characteristics of the Tiger mate.

Tiger Parents and Kids

Tiger parents are quite similar to the characters of their wildlife counterparts. They will walk through fire to protect their children or to defend them to others. As warm and affectionate as they are, they can become fierce and defensive when their kids are at stake. They lavish their offspring with treats and spoil them with generosity.

Tiger parents can be fun as kittens, playing family games and getting great enjoyment from it. On the whole, they enjoy their children's company, having a good laugh and sharing a funny joke. Still, adult Tigers will become enraged if one of their children has gone too far, or is disrespectful. As open-minded and liberal as they are, they will not, under any circumstances, tolerate bad manners, or a lack of respect for other adults.

Tiger babies and children are cheerful children with a zest and passion for life that ignites their curious nature. Boys and girls alike will enjoy the competitiveness and athleticism sports require. From an early age, Tiger

children can't pass on a dare or a challenge. Intelligent and friendly, Tiger children carry a curiosity about life and their environment. In class, they are apt to enjoy and do better at subjects that give them the ability and creative freedom to express themselves.



East Meets West

Aries Tiger

Volatile and active, these people are whirlwinds who must enjoy open spaces and a lot of activity. Feeling pinned down to one decision or one destination is an Aries Tiger's worst nightmare. These people are generous and brave as well as deeply passionate people.

Libran Tiger

These Tigers play fair and value justice in their everyday lives. They are known to flail in their own personal decision-making efforts.

Taurean Tiger

More down-to-earth than other Tigers, they are practical and responsible. They work well under pressure and can maintain their workloads through amazing efforts. They are passionate in their partnerships and provide stability to their loved ones.

Scorpio Tiger

This is the most intense Tiger of them all. Scorpio Tigers are deeply emotional and sensitive people, extremely focused on the task at hand. They are strong-willed and motivated and don't like contradiction.

Gemini Tiger

They like to move about freely. They yearn to see new places and to meet new people in their travels. They are quirky, funny, intelligent and lively and are more comfortable being the life of a party than being a guest there.

Sagittarian Tiger

These Tigers have a great appetite for life and thrust themselves into everyday of their lives. They are mostly extroverts who enjoy being out and about in strange places. They also like to be spontaneous and often jump to conclusions before weighing the consequences.

Cancerian Tiger

The Cancerian Tiger is a romantic individual who is sensitive and tenderhearted. This character needs a loving, honest relationship to thrive.

Capricorn Tiger

These people work long, hard hours to achieve the level of success they believe they are destined for. Their career will always be the most important thing in their lives, with love and relationships following a close second and third.

Leonine Tiger

These Tigers expect the respect he believes he deserves. He works hard for his status and position and commands a certain presence when he enters a room.

Aquarian Tiger

They ignore the rules and regulations of society and choose instead to focus on matters of the heart. They tend to forget about the emotions involved in these matters, which causes them to seem harder and less sensitive.

Virgo Tiger

They can be pretty picky when it comes to choosing a partner. They have an eye for detail that can cause them to be a little neurotic at times.

Piscean Tiger

Quite sensitive and kind, these Tigers are a bit more reserved than most. They are patient and loving and often suppress the fiery passions that can accompany the Tiger personality. Once they decide they want a partner, they will stop at nothing to get him or her.



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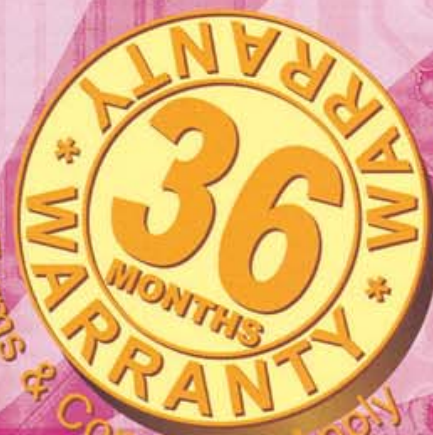
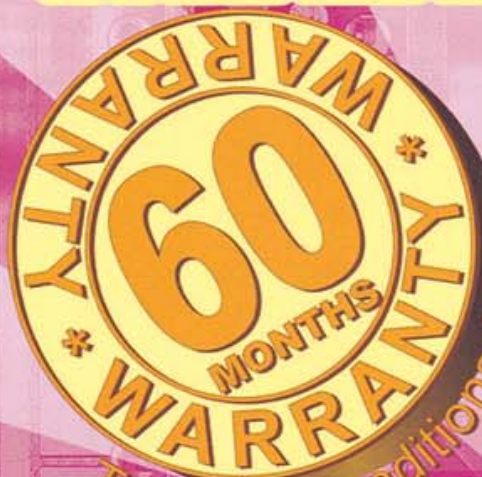


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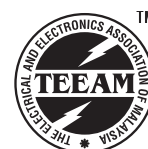
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Training Programme for Malaysian Management & Implementation of Energy Efficiency & Renewable Energy



22nd November to 3rd December 2010, Yokohama Kenshu Centre, Japan

Introduction

The programme is organised by TEEAM in collaboration with the Association for Overseas Technical Scholarship (AOTS), Japan. AOTS Japan is a semi-government agency that promotes human resource development in developing countries. AOTS subsidised the course fees and travel expenses as well as providing meals and accommodation during the training period.

Objectives

The training programme aimed to share current practices of environment management in Japanese factories/buildings; to educate trainees on efficient use of energy; how to improve efficiency; to identify the renewal energy available; and to promote renewal energy usage.

Content

- Environment management of Japanese companies
- Steps to promote energy efficiency
- Techniques for energy efficiency at production site
- New types of energy (solar)
- Roles of managers in promoting energy efficiency

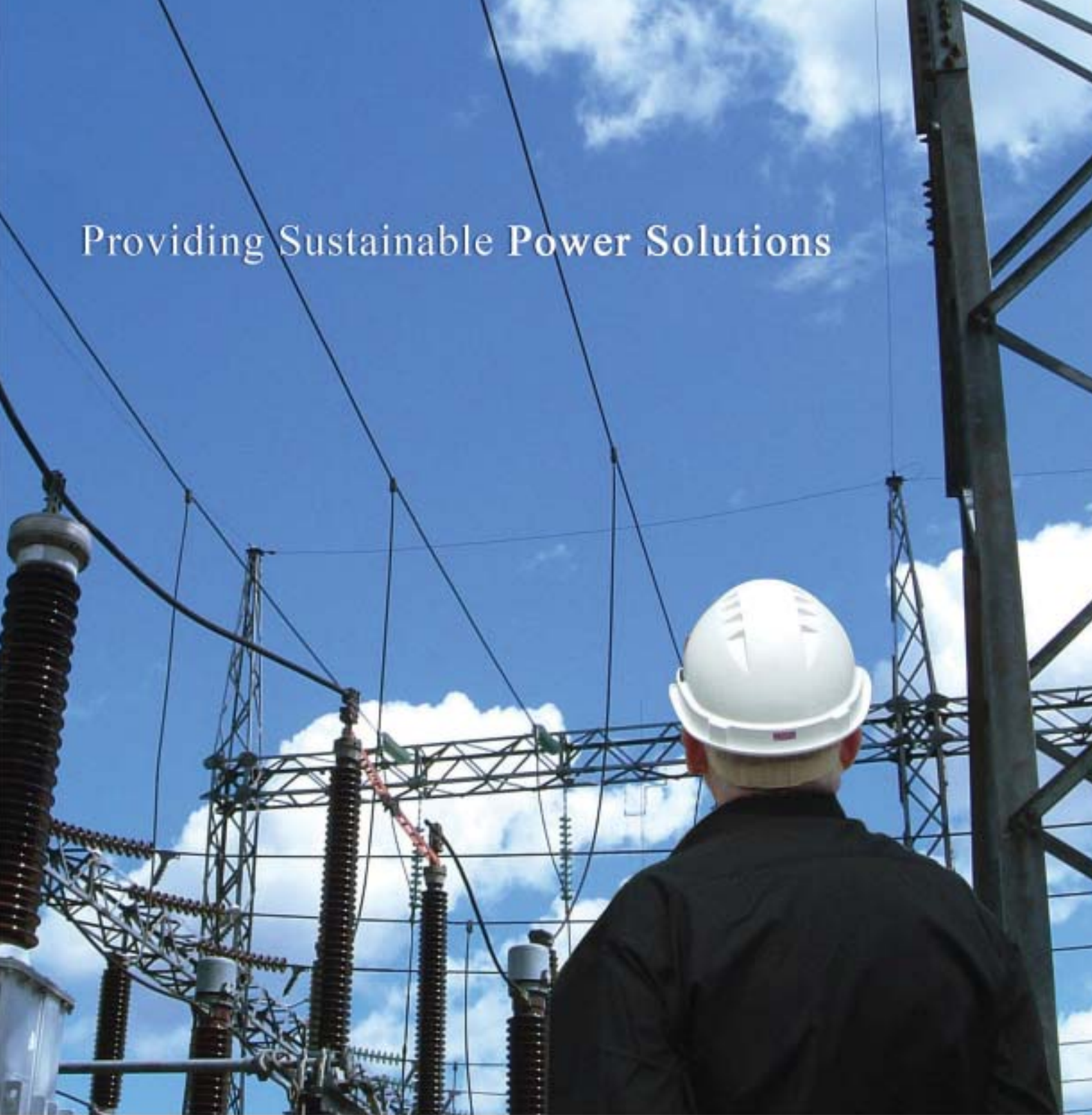
- Presentation by each participant on energy management plan at their respective company
- Opportunity to visit Japanese factories to obtain first hand information on their environmental management and energy efficiency activities.

Training Expenses

The expenses to be borne by each participant are approximately RM6,500.00 which includes air ticket, course fees, accommodation and meals. Participants may apply to HRDF for subsidy for those who qualify.

For enquiries and registration, please contact TEEAM Secretariat:
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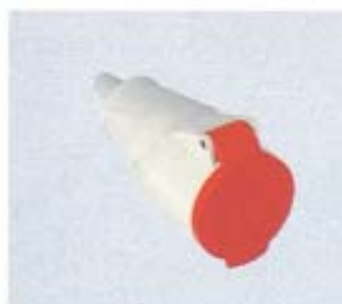
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