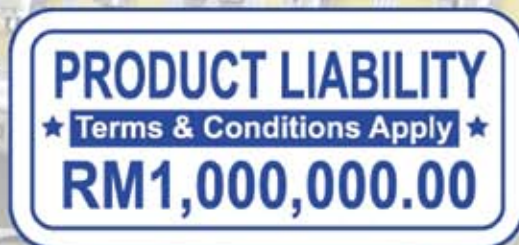
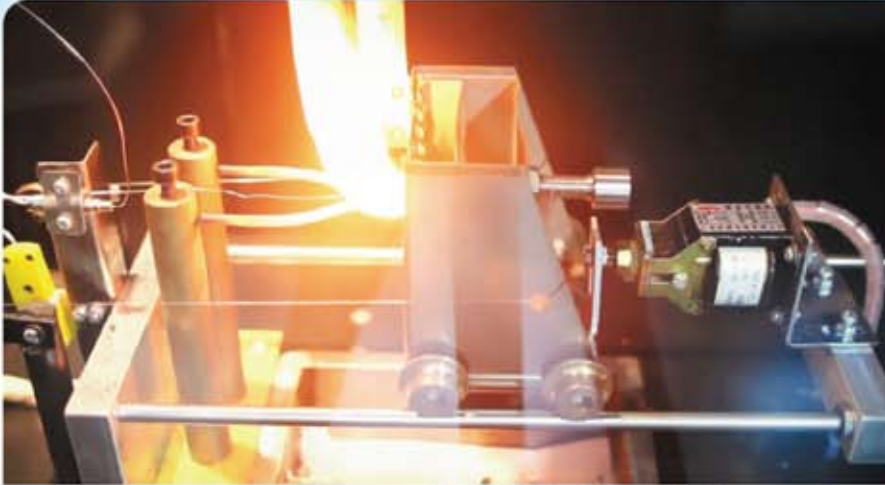


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Schneider
Electric

RCCBs and Electrical Safety

This article is contributed by Mr Dahari Mat Siran, TEEAM Electrical Safety & Quality Chairman

In the wake of several recent electrical incidents, the Malaysian government has taken the initiatives through its enforcement agency, the Energy Commission (EC), to primarily remind the responsible bodies to enforce the Electricity Regulations 1994.

As most of the electrical incidents involving water elements especially instant water heaters, the EC has concentrated its effort in this area. Some drastic measures have been implemented to minimise the potential dangers.

1) Mandatory use of 30mA RCCB (Residual Current Circuit Breaker) to protect the power socket outlet.

- This is in line with the Malaysian Building Wiring regulations
- The use of two separate RCCBs is encouraged, one for lighting and another for power

2) Mandatory use of 10mA RCCB to protect the water element such as instant water heaters, storage water heaters and water fountains.

- Wet environment will definitely reduce the floor insulation and increase the potential danger

- A very sensitive 10mA RCCB should be able to detect the slightest leakage that may cause electrocution.

3) Instant water heaters must adhere to the following:

- Have a built-in 10mA RCD to protect the internal circuit against leakage current.
- Do not use metallic hose as most of the electrocution incidents were due to current flowing to the body through the metallic conductors.
- Have a warning sticker to remind that it is mandatory to protect the water heater with external 10mA RCCB.

RCCB is the last defense in protecting people from the potential danger of leakage current. Should all other protections such as barriers and insulations failed, the RCCB must work to ensure no one is exposed to danger of electrocution and fire.

Since RCCB is an electro-mechanical device, it is possible for the product to fail. After years of operation the electrical parts could become less sensitive and the mechanical parts could be broken or jammed. Knowing these possible failures, all RCCBs are equipped with a TEST button for the users to regularly

test the functionality of the RCCB.

Based on ST Annual Report 2012, a study shows that 64% of consumers are unsure how to test RCCB. This is based on research done on 1,000 consumers in the Klang Valley. Therefore how many people are actually regularly testing the RCCB?



Self-test the T button of your RCCB.

Realising this potential danger, the EC and TEEAM have come up with initiatives to promote this awareness among the general public. EC has published advertisements in the print media to educate and encourage home owners to regularly press the RCCB test button. TEEAM has recently embarked on a national campaign since June 2014 to achieve 1 million users to press the test button by May 2015.

Mr Dahari Mat Siran is the Marketing Manager of Hager Engineering (M) Sdn Bhd. He can be contacted at dahari.siran@hager.my



Supporters



2 - Day Wiring Design Workshop

18th & 19th November 2014, Armada Hotel, Section 52, Petaling Jaya
24th & 25th November 2014, Vistana Hotel, Bukit Jambul, Penang

Organiser



About This Workshop

Designing safe LV wiring systems is a fundamental skill required of a responsible engineer. This 2 day workshop draws from the pool of TEEAM practitioners who are experts and will provide an indepth coverage of topics directly related to cable sizing and wiring design. It can be considered an ESSENTIAL course for practitioners in the electrical power industry at ALL levels whether as contractors, consultants, project managers, facility managers or regulators.

SIRIM standards (particularly those covered in this workshop) will be on sale.

Fees

Member of TEEAM & Supporting Organisation	RM 1,200.00
Non-Member	RM 1,500.00

Registration

Please contact TEEAM Secretariat for registration
Tel : +603-9221 4417, 9221 2091
E- mail : teeam52@gmail.com

Day 1 18/11/14, Armada Hotel, Petaling Jaya
24/11/14, Vistana Hotel, Penang

09.00 am Keynote Address
09.15 am Regulatory framework
09.45 am Introduction to MSIEC60364, MS1979 & MS1936

10.30 am Tea Break

11.00 am The public distribution network & TNB ESHB
11.45 am Load estimation, profiles & tariffs

12.30 pm Lunch

14.00 pm Cable types & installation method
14.45 pm Power system earthing
15.30 pm LV circuit configuration

16.00 am Tea Break

16.30 pm Protection for safety
17.00 pm Protective devices for LV
17.30 pm Q&A

Day 2 19/11/14, Armada Hotel, Petaling Jaya
25/11/14, Vistana Hotel, Penang

09.00 am System short circuit studies
09.45 am RCD (IEC 61008 & 61009) and fuses

10.30 am Tea Break

11.00 am Conductor sizing overview
11.45 am Voltage drop studies

12.30 pm Lunch

14.00 pm Work example 1
14.45 pm Work example 2
15.30 pm Concluding Remark

16.00 pm Tea Break & Networking



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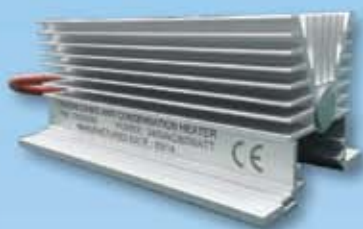
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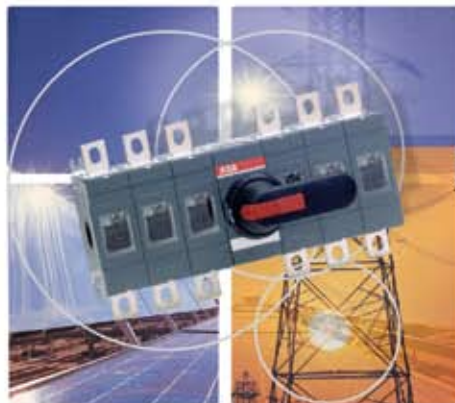
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New Members

The following new members have been approved and accepted by the TEEAM Council (as at 28th August 2014).
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.

Innovative Design Technologies Sdn Bhd Lot 5881, Lorong IKS Bukit Minyak Satu, Taman Perindustrian IKS, 14000 Bukit Tengah, Penang. Tel: +604-501 5700 Fax: +604-501 5701 E-mail: gordon.norris@IDTworld.com Website: www.idtworld.com Contact Person: Mr Gordon Arthur Norris <i>Business: Electronics control equipment manufacturer.</i>	LED Vision Sdn Bhd 109, Jalan PM1, Taman Perindustrian Merdeka, Batu Berendam, 75250 Melaka. Tel: +606-317 3668 Fax: +606-317 3882 E-mail: sales@ledvision.com.my Website: www.ledvision.com.my Contact Person: Mr James Wong Youn Chan <i>Business: LED solutions center, manufacturing, design and installation.</i>
Maydenki Sdn Bhd No. 108 & 110, Jalan Seroja 39, Taman Johor Jaya, 81100 Johor Bahru, Johor Darul Takzim. Tel: +607-351 1671 Fax: +607-351 1442 E-mail: marketing-jb@maydenki.com.my/maydenkipj@maydenki.com.my Website: www.maydenki.com.my Contact Person: Ms Lim May Hoon <i>Business: Engineering services, energy management solutions and trading.</i>	Menara Teknik 15-1, Jalan PM 1/1, Taman Pandan Mawar, Jalan Datuk Wira Poh Ah Tiam (Jalan Pandan), 75250 Melaka. Tel: +606-334 5587 Fax: +606-334 5591 E-mail: mtmelaka@yahoo.com Contact Person: Ir. Sh. Jaafar Bin Sh. Ismail <i>Business: M & E consultancy services.</i>
YLI Industry Sdn Bhd Pt 14504, Persiaran Batu Gajah Perdana 6, Taman Batu Gajah Perdana, 31550 Pusing, Perak. Tel: +605-366 5227 Fax: +605-366 1227 E-mail: info@yli-ind.com.my Website: www.yli-ind.com.my Contact Person: Mr Lee Kah Ian <i>Business: Manufacturing of lighting.</i>	MS Lighting (M) Sdn Bhd No. 49, Taman Manggis 2, Jalan Kilang Lama, 09000 Kulim, Kedah. Tel: +604-491 3288 Fax: +604-491 3286 E-mail: ms.midea@gmail.com Website: www.midea.lighting.com Contact Person: Mr Tan Joo Heng <i>Business: Lighting (Sole Distributor)</i>
Enerbensa Sdn Bhd 2F-16, IOI Business Park, Bandar Puchong Jaya, 47100 Puchong, Selangor Darul Ehsan. Tel: +603-8075 5285 Fax: +603-8075 5287 E-mail: info@enerbensa.com Website: www.enerbensa.com Contact Person: Mr Jeffrey Yong Yoon Choy <i>Business: Engineering & contracting company.</i>	Gtronic Switchgear Sdn Bhd Lot 28242, Kg Jaya Industrial Area, 47000 Sungai Buloh, Selangor Darul Ehsan. Tel: +603-6145 3355 Fax: +603-6157 8177 E-mail: terry@gtronic.com.my Contact Person: Mr Terry Chong <i>Business: Distribution of LV distribution boards and electrical installation components.</i>
Sunsource Energy Sdn Bhd Unit 13A-11, Block B, Phileo Damansara 2, No. 15, Jalan 16/11, 46350 Petaling Jaya, Selangor Darul Ehsan. Tel: +603-7958 3981/ 7955 3981 Fax: +603-7960 3981 E-mail: info@sunsource.com.my/ hr@sunsource.com.my Website: www.sunsource.com.my Contact Person: Mr Roger Wong Chin Weng <i>Business: Renewable energy, energy efficiency consultancy.</i>	Tropics Gallery Sdn Bhd No. 128A, Jalan Damai (Off Jalan Ampang), 55000 Kuala Lumpur. Tel: +603-4256 4422/3422/5422 Fax: +603-4256 6422 E-mail: bobby@lightmakers.com.my Website: www.lightmakers.com.my Contact Person: Mr Bobby Ronald <i>Business: Lighting consultant, custom made decorative light fittings, architectural light fitting trading, supply and installation works.</i>
Top Controls & Switches Electric (M) Sdn Bhd No. B1-12, Dataran Niaga Sg Besi, Midfields Square West, Jalan 11/108C Off Lebuhraya Sg Besi, 57100 Kuala Lumpur. Tel: +603-9044 0022 Fax: +603-9044 0055 E-mail: sales@topcselectric.com.my Website: www.topcselectric.com.my Contact Person: Mr Willie Wong Choong Min <i>Business: Electrical agent & electrical project.</i>	Tan Kian Huat c/o Chen Yi Electrical Sdn Bhd No. 16, Jalan Puteri 5/6, Bandar Puteri, 47100 Puchong, Selangor Darul Ehsan. Mobile: +6016-215 0108 Fax: +603-8066 5709 Email: ken.chenyi13@gmail.com <i>Business: Electrical contractor.</i>
Kejuruteraan Letrik Seri (M) Sdn Bhd Lot 10814, Jalan Petai, Pandamaran, 42000 Port Klang, Selangor Darul Ehsan. Tel: +603-3167 1818 Fax: +603-3167 5204 E-mail: klseri84@yahoo.com.my Contact Person: Mr Lim Yee Chard <i>Business: Electrical contractor.</i>	Wong Beng Kok No. 21, SR 8/11, Taman Serdang Raya, 43300 Seri Kembangan, Selangor Darul Ehsan. Tel: +603-9287 2182 Mobile: +6012-314 1262 E-mail: bengkokwong18@yahoo.com <i>Business: Wireman</i>

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Talk on Power Quality Solutions

A half day talk on Power Quality Solutions was organised on 5th June 2014 at TEEAM Conference Room. The seminar aimed to share with participants on the latest technology used for solving power quality problems. The speakers were Mr Ng Jia Wen and Mr Kenneth Ng from Covis Sdn Bhd. The seminar was entitled with CIDB CCD points.

It was attracted some 15 participants. Overall the topics were informative and had benefited all the participants.



Mr Ng Jia Wen – Presentation on Dynamic Rotary UPS.



Mr Lawrence Lai – TEEAM Council Member and also Managing Director of Covis delivered his welcome address.



Mr Kenneth Ng – Presentation on Power & Energy Monitoring.



Workshop – Participants captivated by the interesting explanation.



Seminar in progress – Information and ideas being shared.



For the album – The seminar was organised by TEEAM Education & Training Committee.



..... Continue New Members

Ir Lee Cheng Pay

13, Jalan Anggerik Liparis 33/151,
40460 Shah Alam,
Selangor Darul Ehsan.
Mobile: +6017-365 6288
E-mail: leechengpay@gmail.com
Business: Consulting Engineer.

Membership Recruitment

Please help to recruit new members to strengthen TEEAM's membership base. Incentives are offered in term of free advertisement in Suara TEEAM or redeem membership subscription.

For details, please contact the TEEAM Secretariat at teeam52@gmail.com



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Challenges and Opportunities in Electrical Industry - Part 22

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

Water Heater Electrocution

Recently there were a few electrocution cases involving water heaters and fish pond. The first case which happened in Bachok, Kelantan that killed a restaurant owner was reported on 4th August 2014. Wiring to the fish pond was badly done and the insulation of the wires became defective thus energising the pond. The RCCB in the premise was defective and therefore could not save the person.

The second case involved an electric water heater where a young pharmacist in Segamat, Johor was killed on 14th August 2014. The water hose was metallic and most likely was the cause of the electrocution.

The latest electrocution in Singapore was reported on 31st August 2014, also involved water heater and most likely the RCCB was not functioning. These cases are very tragic and should serve as a great warning to all of us.

Residual Current Circuit Breakers (RCCB) are devices that can detect and measure current leakage and prevent accidents at home and must be regularly tested to ensure they are still in good working condition and able to trip and isolate the circuit once a leakage current is detected. Faulty or defective RCCBs in the distribution board have been identified as among the causes of electrocution involving home water heaters in the country. A 10mA RCCB specially installed for the water heater is highly recommended as an added protection.

TNB Initial Deposit For Non Domestic For Ordinary Power Customer

TNB has recently informed TEEAM of the new rates on initial deposit.

Initial Deposit For Non Domestic For Ordinary Power Customer (OPC) Based On Maximum Demand (MD)

No	Supply Capacity (Maximum Demand, kW)	Initial Deposit (RM)
1	Until 1	240
2	1.1 until 2	490
3	2.1 until 3	760
4	3.1 until 4	1,020
5	4.1 until 5	1,280
6	5.1 until 6	1,540
7	6.1 until 7	1,800
8	7.1 until 8	2,060
9	8.1 until 9	2,330
10	9.1 until 10	2,590
11	10.1 until 11	2,850
12	11.1 until 12	3,110
13	12.1 until 13	3,370
14	13.1 until 14	3,630
15	14.1 until 15	3,890
16	15.1 until 16	4,160
17	16.1 until 17	4,420
18	17.1 until 18	4,680
19	18.1 until 19	4,940
20	19.1 until 20	5,200
21	20.1 until 25	6,510
22	25.1 until 30	7,820
23	30.1 until 35	9,130
24	35.1 until 40	10,430
25	40.1 until 45	11,740
26	45.1 until 50	13,050
27	50.1 until 55	14,360
28	55.1 until 60	15,670

Formula= [MD Yang Diishtihar X 80% X 30 Hari X 24 Jam X faktor Beban X Kadar Tarif] X 2

TEEAM was of the opinion that the new proposed initial deposit is still very high. The calculation based on 24 hours is not reasonable, therefore TEEAM would like to propose to calculate it based on 12 hours.

Proposed formula for calculation as follow:-
 = [MD (kw) declared X 80% X 30 days X 12 hours X load factor X tariff rate] X 2
 *(Load factor) = 0.44

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

Ir Chew is the current President of The Electrical and Electronics Association of Malaysia (TEEAM). He was TEEAM President for 2001 - 2003 and 2003 - 2005. He is the 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 is at present a WG representative in the development of Green Technology Road Map Phase 1. He is also a member of the National Energy Efficiency Technical Working Group. He is the Immediate Past President of IET Malaysia (Institution of Engineering & Technology) and Board Member of IET's APRB (Asian Pacific Region Board). He can be reached at E-mail: sfchew@ghliew1990.com.

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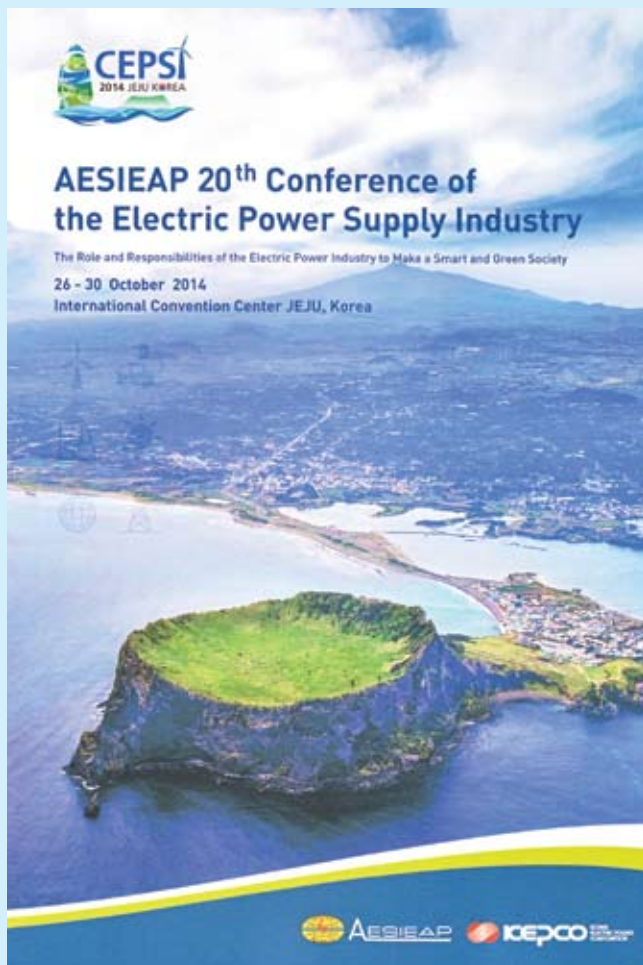
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AESIEAP 20th Conference of the Electric Power Supply Industry

The Role and Responsibilities of the Electric Power Industry to Make a Smart and Green Society
26 - 30 October 2014
International Convention Center JEJU, Korea



CEPSI 2014 Jeju Korea

The 20th Conference of the Electric Power Supply Industry (CEPSI 2014) of the Association of Electricity Supply Industry of East Asia and the Western Pacific (AESIEAP) is hosted by Korea Electric Power Corporation (KEPCO) from 26th to 30th October 2014 at the International Convention Center Jeju, Korea

CEPSI is AESIEAP's biggest and most important event held every even year. Attended by approximately 1,500 power industry leaders, CEPSI 2014 will feature various programmes such as keynote speeches, discussion sessions, paper presentations, etc. In addition, the exhibition, CPO forum, and buyer-seller one-to-one meetings will be held concurrently to provide an effective and a practical arena to create new business opportunities.

Under the following conference theme, "The Role and Responsibilities of the Electric Power Industry to Make a Smart and Green Society", CEPSI 2014 will contribute to approaching solutions to the issues facing the power industry by having discussions and identifying reasonable alternatives to shape the future of energy we envision.

TEEAM is one of the supporting organisations and we are organising a delegation to attend the event. We appeal to members for participation. Kindly contact the TEEAM Secretariat for registration, should you be interested. More information is available on the event website www.cepsi2014jeju.org

TEEAM Secretariat

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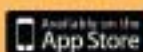
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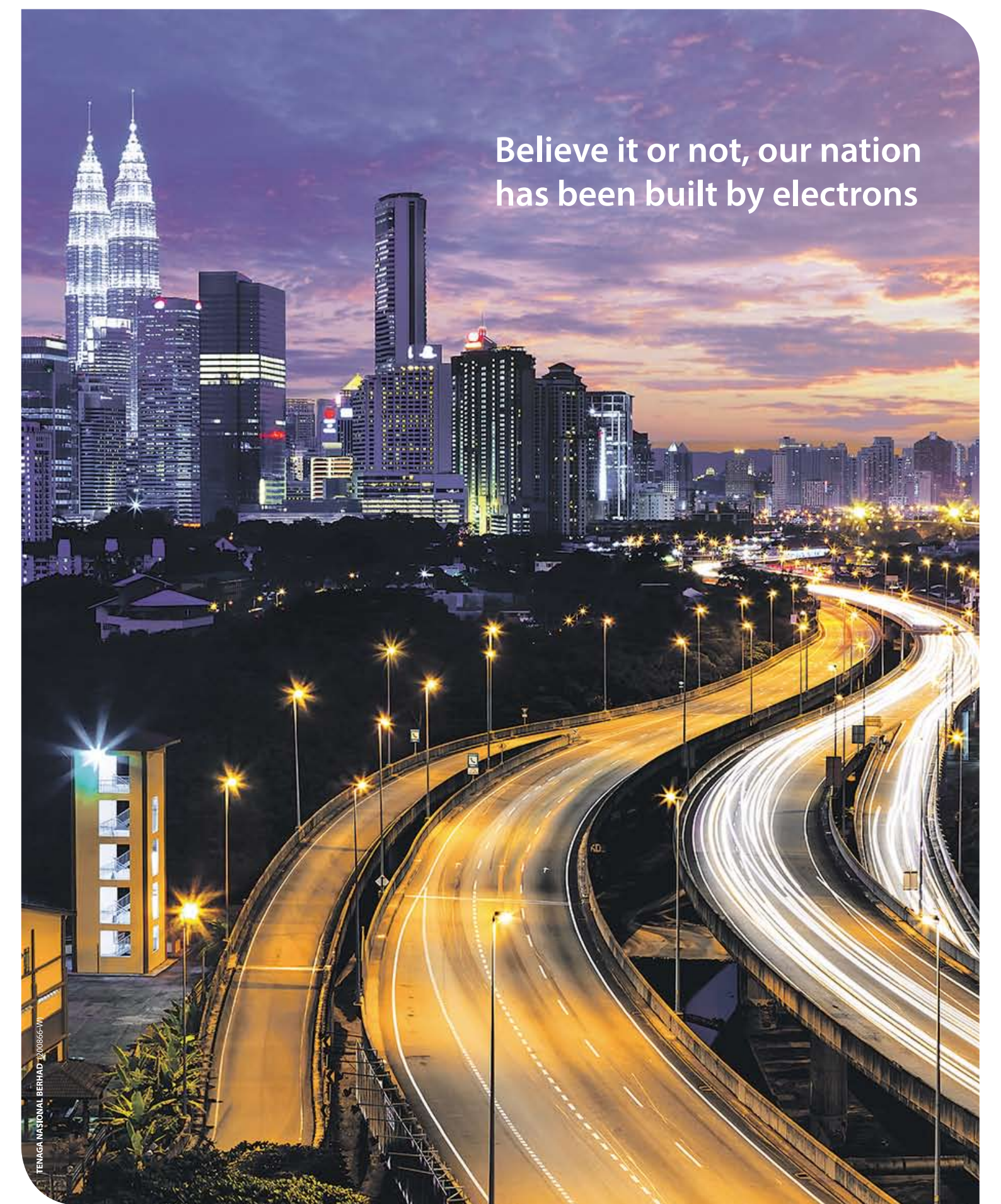
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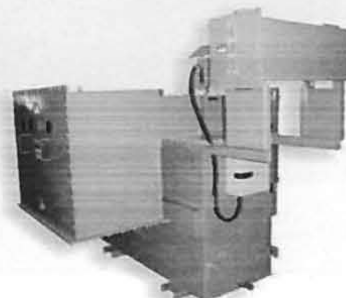
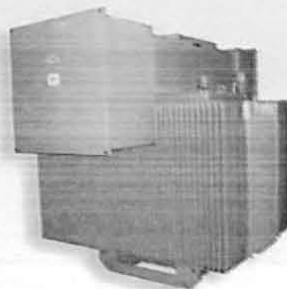
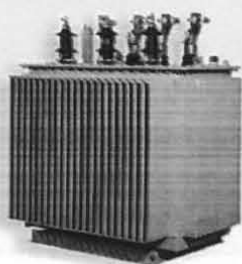


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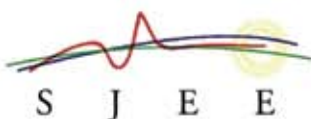
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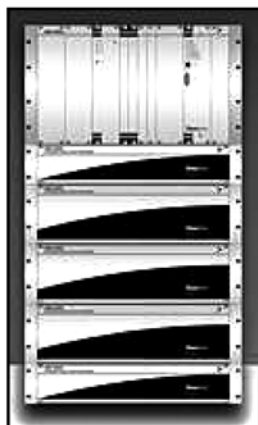
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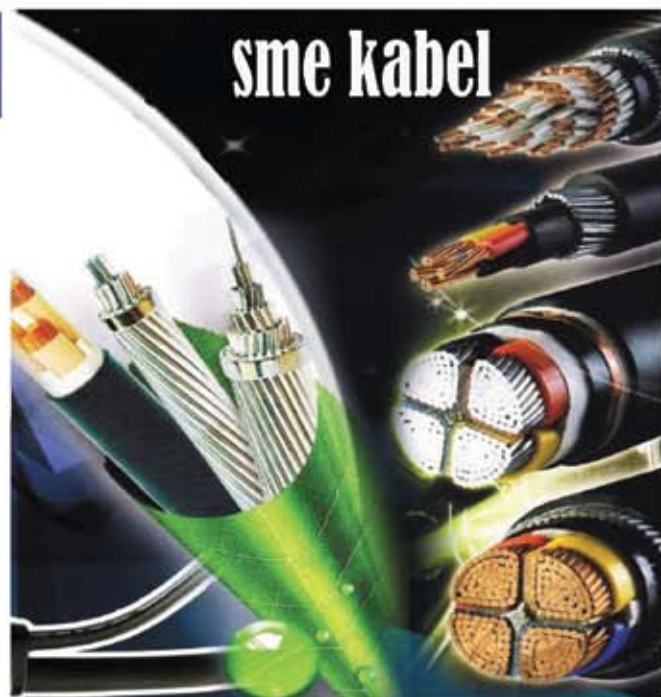
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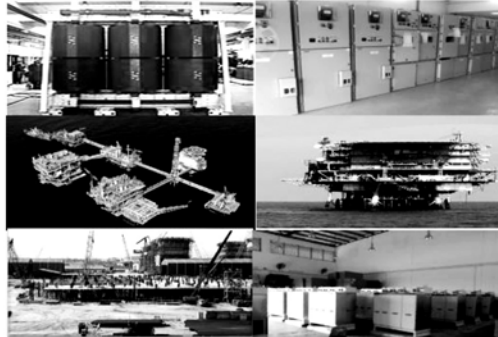
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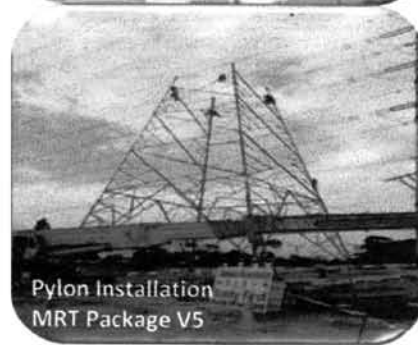
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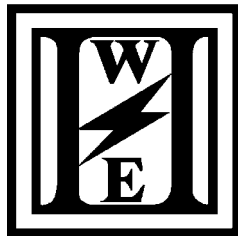
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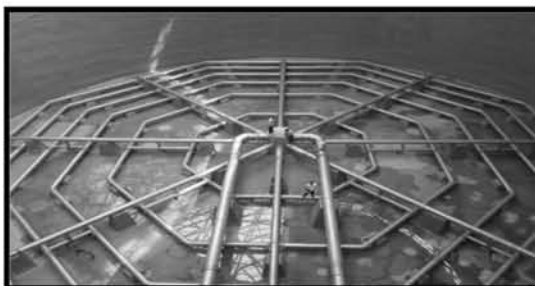
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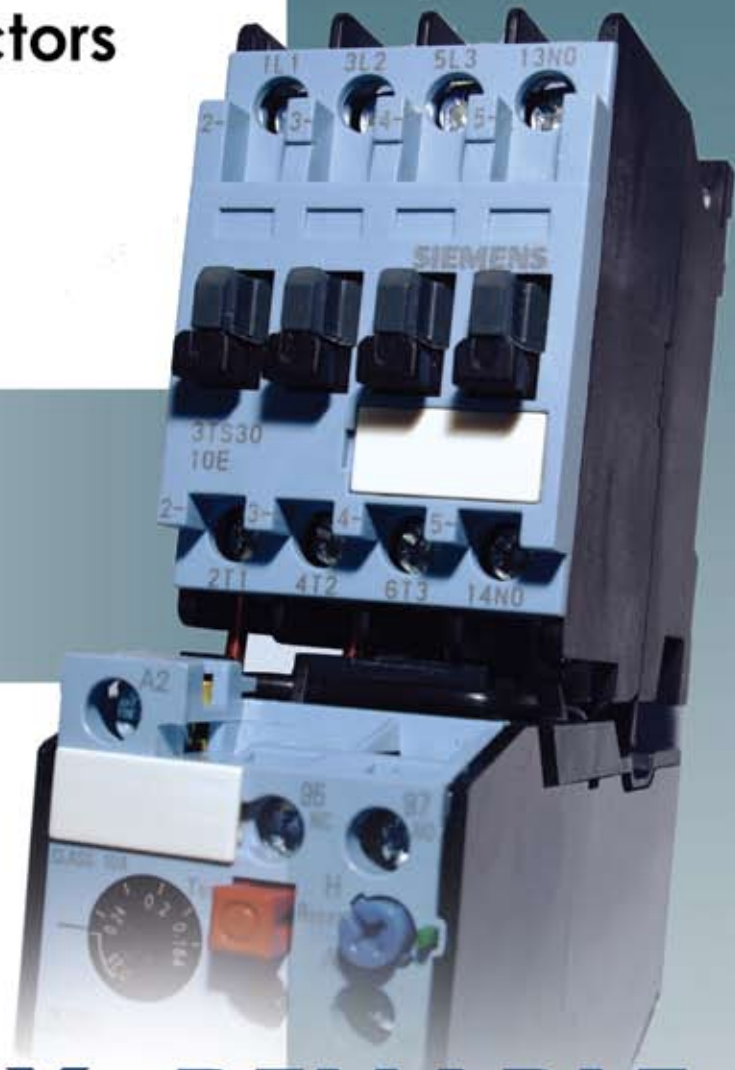
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