



SUARA TEEAM

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Publication of
The Electrical And
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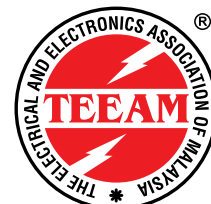
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Plugs, Socket-Outlets for Industrial Purposes

LS – TYPE Plugs and Socket-Outlets for Entertainment



Plugs



Couplers

Inclined flush mounting sockets - Watertight IP67



PEW...PI 16A-32A 63A-125A

Couplers - Watertight IP66/IP67



16A-32A

Wall-mounting plugs - Watertight IP67



PEW...SM 63A

Plugs – Watertight IP66/IP67



PEW...SV 16A – 32A

Interlocked switched socket-outlets with screw type fuse carrier aluminium enclosure – splashproof IP55



(PK...PB5 125A)

Interlocked Switched Socket-Outlets



TM...SP

Plugs - Low voltage from 50V to 690V

IP44



PE...PP 16A-32A

IP67



Couplers 16A-32A



PE...PQ 16A-32A



SIPW...SV



PE...SV 16A-32A



PEW...PP 16A-32A



Multipole Connectors for Industrial Purposes

C-Type



IP Enclosure C-Type



Hoods with 2 levels



Hoods with 1 level

CNE-CSE 16 Poles



Inserts, Screw terminal connection

MIXO modular units



4 poles 40A-830V

CT – CTS 64 Poles



Terminal blocks inserts screw terminal connection

CP 6 Poles 35A-400/690V



Inserts, screw terminal connection

CKS 3 and 4 Poles



Inserts, 3 poles + connection with spring terminal



Inserts, 4 poles + connection with spring terminal

CMCE 3+2 (aux) polest



Inserts, Crimp Connections

MIXO modular units 2 poles 100A



Crimp connections



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From The Editor's Desk



Malaysia's 2026 economic outlook remains broadly resilient, with Gross Domestic Product (GDP) projected to positively grow between 4% and 4.6%. Growth is dynamically supported by robust domestic consumer spending, thriving AI and data center investments, and a surge in tourism, amongst others. Malaysia continues to attract significant investments in high-impact tech-intensive sectors, particularly in the E&E-centric industries of semiconductors and data centres!

TEEAM successfully convened its 74th Annual General Meeting (AGM) on Sunday, 24 May 2026, at the prestigious Tropicana Golf & Country Club in Petaling Jaya, Selangor. TEEAM President Mr. Albert Tan reaffirmed TEEAM's proactive commitment to three strategic priorities: dynamically strengthening industry collaboration, empowering members, and revitalising the Association for the next generation.

We also have many interesting E&E articles for your reading pleasure. Please look out for "How AI will reshape the E&E Industry". For the E&E industry, the timely convergence of Digital AI and Physical AI is highly significant. Every intelligent physical system requires electrical power, electronics, sensors, control devices, communication networks, data infrastructure, safety systems, installation, commissioning and maintenance, amongst others!

We are once again reminded of Compliance with MS 1540:2015 for cable lugs and MS 2584:2014 for bi-metal connectors which ensure strict adherence to Malaysian E&E requirements for quality, design and traceability. The importance of quality cable lugs and correct cable termination must be always regarded as highly essential.

May all of us in our E&E fraternity be highly motivated, enriched and be rewarded for all our years of perseverance and sheer hard work.

Indeed, the E&E future augurs very well for us – here's to our highly sustainable future!

Regards,



Ir. Chew Shee Fuee, KMN
Editor
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ENERtec Asia 2026 Strengthens Malaysia's Position in the Regional Energy Transition

ENERtec Asia 2026, ASEAN's premier energy technology exhibition and conference, was successfully held at the Kuala Lumpur Convention Centre (KLCC) from 3 to 5 June 2026. Organised by Informa Markets Malaysia and co-hosted by TEEAM, the event brought together key stakeholders from across the regional energy ecosystem to explore emerging technologies, business opportunities, and strategies for a sustainable energy future.

Held under the theme "Energy & AI: The Synergy for Energy Transition", ENERtec Asia 2026 highlighted the growing importance of energy infrastructure in supporting artificial intelligence (AI), data centres, advanced manufacturing, and digital transformation. The exhibition and conference provided an important platform for discussions on renewable energy integration, energy storage systems, grid modernisation, industrial energy efficiency, and decarbonisation initiatives.

The event attracted more than 12,000 industry professionals from over 60 countries and regions and featured approximately 1,000 exhibiting brands occupying seven exhibition halls! Industry leaders, policymakers, investors, technology providers, utilities, consultants, manufacturers, and end-users gathered to exchange knowledge and explore solutions to address the region's rapidly evolving energy challenges.

A key focus of the exhibition was the need for reliable and sustainable power infrastructure to support Southeast Asia's growing digital economy. Discussions at the WATT'S NEXT Conference emphasised the critical roles of Battery Energy Storage Systems (BESS), renewable energy deployment, AI infrastructure, and grid resilience in ensuring long-term energy security and supporting future economic growth.





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As co-host of ENERtec Asia 2026, TEEAM played an active role in supporting the event and reinforcing its commitment to advancing Malaysia's electrical and energy industries. The exhibition also provided an excellent platform for TEEAM members to showcase their products, services, and technological innovations to both local and international visitors.

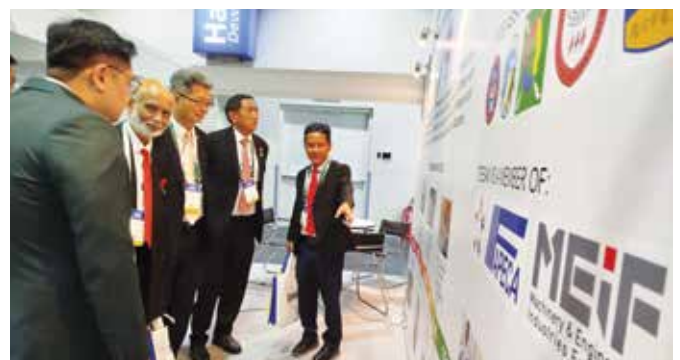
The event was strongly supported by TEEAM member companies and many other industry players from the electrical and energy sectors, who participated as exhibitors. Their participation reflected the strength and diversity of Malaysian companies in areas such as electrical distribution, testing and measurement, cable technologies, industrial solutions, energy efficiency, solar, lighting and power infrastructure.

The strong presence of local and international exhibitors provided visitors with valuable opportunities to explore the latest technologies, products, and solutions that are shaping the future of the energy and electrical industries. It also highlighted the important role played by Malaysian companies in supporting the nation's energy transition, industrial development, and growing digital economy.



TEEAM's proactive leadership also demonstrated its strong commitment to the event, with members of the Executive Committee (EXCO) and Council present in full force throughout the exhibition! Their active participation in welcoming guests, engaging with exhibitors, and networking with industry stakeholders underscored TEEAM's dedication to supporting the growth and development of the electrical and energy industries in Malaysia and the wider Asia-Pacific region.

Adding further significance to the event was the presence of distinguished guests from the ASEAN Federation of Electrical Engineering Contractors (AFEEC) and the Federation of Asia Pacific Electrical Contractors Associations (FAPECA), who were invited by TEEAM and Informa Markets to visit ENERtec Asia 2026 and strengthen regional industry ties.



The visiting delegation comprised Mr. Brady Choi of the Hong Kong Electrical Contractors Association (HKECA); Mr. Korbkit Saduakkarn and Mr. Francis Chua of the Thai Electrical & Mechanical Contractors Association (TEMCA); Mr. Somchai Virabhak and Mr. Thong Fatt Lim of the Singapore Electrical Contractors & Licensed Electrical Workers Association (SECA); and Engr. Cyril C. Salamanque together with Mr. Carmelo Jimson Uianza of the Society of Philippine Electrotechnical Constructors & Suppliers (SPECS).

Their presence provided an excellent opportunity for networking, exchange of industry insights, and discussions on regional cooperation in addressing emerging challenges and opportunities within the electrical and energy sectors.

The industry-centric event also received strong support from TEEAM's fellow industry State Associations from across Malaysia. Members from the Electrical Association of Sarawak & Sabah (EASS), the Perak Electrical Association (PEA), Persatuan Kekompetenan Penjaga Jentera & Pendawai Elektrik (PKPPE), Perak (i.e., The Perak Electrical Chargemen & Wiremen Competency Association), and the Johor Bahru Electrical & Electronics Association (JBEEA) were present at the exhibition.

The participation of these local and international associations underscored the importance of win-win collaboration amongst industry stakeholders in promoting professional development, knowledge sharing, business opportunities, and the advancement of the electrical and energy industries throughout the Asia-Pacific region.

Throughout the three-day event, exhibitors and visitors benefited from extensive networking opportunities,

technical presentations, product demonstrations, and business matching sessions. The exhibition also enabled participants to gain valuable insights into the latest developments in energy technologies and market trends shaping the future of the industry.

ENERtec Asia continues to strengthen its position as a leading regional platform for industry engagement, innovation, and collaboration. The successful organisation of ENERtec Asia 2026 demonstrates the growing importance of the energy sector in supporting economic development, sustainability goals, and the ongoing digital transformation of Southeast Asia.

TEEAM is proud to have co-hosted this significant industry event and remains committed to fostering meaningful collaboration with industry stakeholders in advancing a resilient, sustainable, and future-ready energy ecosystem for Malaysia and the wider Asian region.

Building on the success of ENERtec Asia 2026, TEEAM looks forward to welcoming the industry once again at ENERtec Asia 2028, which will be held from 13 to 15 June 2028 at KLCC, where industry leaders, innovators, and professionals will continue to shape the future of energy together.



Snapshots of ENERtec Asia 2026





SmartGen
ideas for power

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Intelligent Control Module

GENSET CONTROLLER



HGM 7110N
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HGM 9510N
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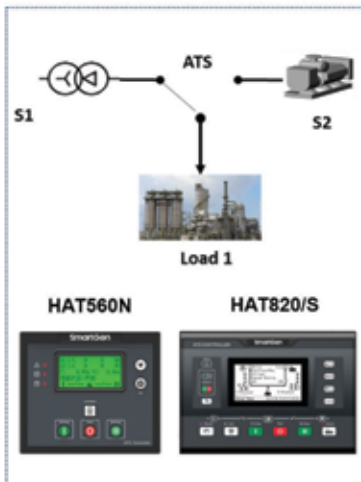
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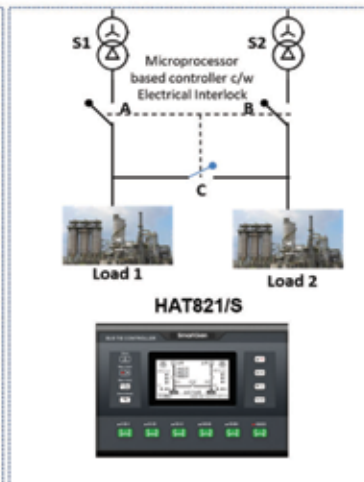
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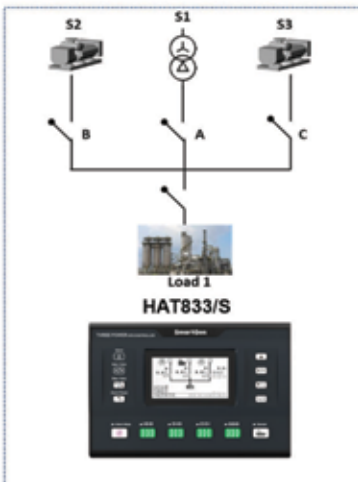
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Dual-power switchover control module



Dual-supply control module with 1 bus tie



Tri-supply control module

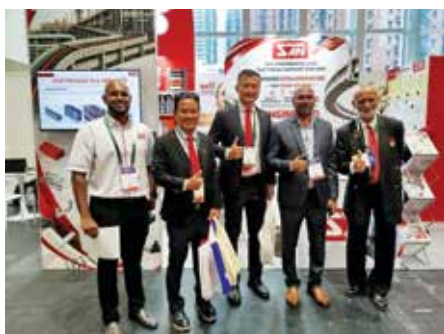


Tri-supply control module with 2 bus ties

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TEEAM 74th Annual General Meeting 2026

The Electrical and Electronics Association of Malaysia (TEEAM) successfully convened its 74th Annual General Meeting (AGM) on Sunday, 24 May 2026, at the Tropicana Golf & Country Club, Petaling Jaya. The event brought together members from across the electrical and electronics industry for a meaningful morning of fellowship, recognition, industry insights, and association governance.

President's Opening Address

The programme commenced with a networking breakfast, providing members with an opportunity to reconnect and exchange views on current industry developments. This was followed by TEEAM President Mr. Albert Tan's Opening Address, who welcomed members, Past Presidents, Council Members, Advisors, industry partners, and guests.

In his address, Mr. Albert Tan congratulated the recipients of the TEEAM Academic Excellence Awards and highlighted the Association's commitment to nurturing future talents who will contribute to Malaysia's electrical and electronics industry. He acknowledged the achievements of the award recipients and encouraged them to continue pursuing excellence in their academic and professional journeys.

Reflecting on the first year of the 2025–2027 Council term, Mr. Albert Tan expressed his appreciation to the Council Members, EXCO, Sub-Committee Chairpersons, Secretariat, and members for their continuing dedication and faithful support in proactively advancing the Association's initiatives. He noted that despite ongoing global challenges such as geopolitical uncertainties, tariff developments, rising operating costs, technological disruptions, and intensifying competition, the industry continues to present significant growth opportunities.

He also emphasised that sectors such as power infrastructure, renewable



energy, digitalisation, artificial intelligence (AI), data centres, electrification, and grid modernisation will continue to drive demand and create new opportunities for businesses willing to innovate and adapt. Looking ahead, he reaffirmed TEEAM's commitment to three strategic priorities: strengthening industry collaboration, empowering members, and revitalising the Association for the next generation. He encouraged members to work together in ensuring that TEEAM remains relevant, progressive, and a strong voice for the industry.

TEEAM Academic Excellence Awards

A highlight of the morning was the presentation of the TEEAM Academic Excellence Awards, which recognise outstanding academic achievements by the children of TEEAM members and their employees.

The awards were presented to recipients who excelled in the SPM, IGCSE O-Level, and Cambridge A-Level examinations. The due recognition reflects TEEAM's firm belief in supporting educational excellence and investing in the future generation of professionals, engineers, entrepreneurs, and industry leaders!



Industry Sharing by OneCredit

Members also benefited from an insightful presentation by Ms. Christine Alphonse of One Future Solutions Sdn Bhd on "OneCredit Financial Risk Management Solutions." The session provided practical knowledge on the importance of credit information in today's business environment and how companies can leverage credit intelligence to make informed commercial decisions.



Ms. Christine shared valuable insights into financial due diligence practices, credit assessment tools, and risk management strategies that can help businesses evaluate potential customers, suppliers, and business partners. The presentation highlighted how access to reliable credit information can support better decision-making, strengthen financial governance, reduce business risks, and enhance overall operational resilience in an increasingly competitive marketplace.

The session was well received by members, who gained a deeper understanding of the role of credit information in safeguarding business interests and supporting sustainable growth.

Acceptance of Minutes, Annual Report and Audited Accounts

The AGM proceeded with the formal business agenda, beginning with the confirmation and adoption of the Minutes of the previous AGM.

Honorary Secretary Mr. Chris Yow then presented the Annual Report, reviewing the Association's activities, achievements, programmes, and key initiatives undertaken throughout 2025. Members were updated on TEEAM's efforts in industry engagement, member development, technical programmes, networking activities, advocacy initiatives, and strategic collaborations with stakeholders.

This was followed by the presentation of the Audited Accounts for the financial year ended 31 December 2025 by Honorary Treasurer Dato' Andy Tan. Members were briefed on the Association's financial performance during the year.

Both the Annual Report and the Audited Accounts were unanimously approved and adopted by the members present.



Appreciation and Moving Forward

TEEAM extended its sincere appreciation to all members who attended and contributed to the success of the 74th AGM. The strong turnout and active participation demonstrated the Association's collective commitment to strengthening the industry and advancing the interests of its members.

The Association also congratulated all recipients of the Academic Excellence Awards for their outstanding achievements and expresses its sincere gratitude to OneCredit for its support and sponsorship of the event. As TEEAM continues its illustrious journey forward, the Association remains highly committed to fostering collaboration, promoting professional excellence, supporting industry development, and creating high value for its members. Together, TEEAM will continue to strengthen the voice of Malaysia's electrical and electronics industry and positively contribute towards a more innovative, sustainable, and prosperous future!



Snapshots of TEEAM 74th Annual General Meeting 2026





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TEEAM Technical Visit to TNB's Diamond-Shaped Transmission Pylon, Penang

TEEAM successfully organised a two-day Technical Visit to TNB's iconic Diamond-Shaped Transmission Pylon in Penang on 2 & 3 April 2026. The programme provided members with an exceptional opportunity to witness one of Malaysia's most innovative power transmission projects while strengthening professional networking and collaboration amongst industry stakeholders.

Courtesy Visit to PEA

The programme commenced on 2 April 2026 with a delegation from Kuala Lumpur travelling north to Ipoh for a courtesy visit to the Perak Electrical Association (PEA). The visit formed part of TEEAM's continuous efforts to strengthen relationships and enhance collaboration with fellow State industry associations.

Upon arrival, the delegation was warmly welcomed by PEA President Mr. Richard Wong and members of the PEA Committee. Also joining the gathering were President of the Persatuan Kekompetenan Penjaga Jentera & Pendawai Elektrik Perak (PKPPE) – The Perak Electrical Chargemen & Wiremen Competency Association – Mr. Tony Wong and members of PKPPE.

The meeting provided an excellent platform for representatives from TEEAM, PEA and PKPPE to exchange views on current industry developments, challenges and emerging opportunities within the electrical and electronics sector. The three Associations also shared updates on their respective activities, initiatives and future plans.

Discussions focused on strengthening cooperation through technical knowledge sharing, professional development programmes, industry engagement and member networking. All parties recognised the importance of fostering close partnerships amongst industry stakeholders in addressing evolving market demands and rapid technological advancements.

Following the meeting, TEEAM hosted a networking lunch at Assam House Restaurant, Ipoh. The informal gathering offered members an excellent opportunity to strengthen friendships, expand professional networks and continue meaningful discussions in a relaxed setting.

After lunch, members of PEA and PKPPE joined the delegation on the journey to Penang, where the group stayed overnight in preparation for the technical visit.



Technical Visit to TNB's Diamond-Shaped Transmission Pylon

On the morning of 3 April 2026, delegates assembled at the jetty at Pantai Sinaran, Gelugor, for a comprehensive safety briefing conducted by TNB Grid Maintenance North Division. The delegation then travelled by boat to the Diamond-Shaped Transmission Pylon site located alongside the First Penang Bridge.

Participants received an informative briefing on the planning, design, construction and operational significance of the transmission infrastructure, providing valuable first-hand insights into one of Malaysia's most remarkable engineering achievements.

The visit centred on TNB's landmark 275kV double-circuit transmission line project, which spans approximately nine kilometres across the Penang Channel, with deep concrete foundations reaching 80 to 100 meters below the seabed. The distinctive diamond-shaped transmission pylons—the first of their kind in Malaysia—form a key component of the strategic infrastructure developed to strengthen Penang's electricity supply and support the State's growing energy demand.

Designed to transmit up to 2,000MW of electricity from the national grid to Penang, the project significantly enhances the reliability, resilience and future capacity of the island's power transmission network.



Courtesy Visit to PEMA

Following the technical visit, the delegation proceeded to the Penang Electrical Merchants' Association (PEMA) located at Malacca Street, Penang for another courtesy visit. The delegation was warmly received by PEMA Honorary Secretary Ir. Darren Lee and members of the PEMA Committee.

The visit provided an excellent opportunity for both associations to explore potential areas of future collaboration, including joint technical visits, seminars, industry programmes and other initiatives that would benefit their respective members. The cordial exchange of ideas and experiences reaffirmed the shared commitment of TEEAM and PEMA towards advancing professional standards and promoting the sustainable growth of Malaysia's electrical and electronics industry.

TEEAM subsequently hosted a networking lunch at Restoran Pen Mutiara, Batu Maung, Penang. PEMA President Mr. Neoh Boon Tong joined the luncheon, which provided another valuable opportunity for fellowship, professional networking and the exchange of industry knowledge.



Appreciation

The successful organisation of the programme was made possible through the dedicated efforts of TEEAM Council Members Ms. Ng Suan Lin, Mr. Louis Loo and Dr. Ir. Is. Prabakaran Rajah, together with Honorary Treasurer Dato' Andy Tan, whose commitment and meticulous coordination contributed significantly to the smooth execution of the event.

TEEAM also records its sincere appreciation to TNB Grid Maintenance Division, PEA and PEMA for their warm hospitality, generous cooperation and invaluable support throughout the programme. Special thanks are extended to Ir. Ts. Muhammad Ammar Farhan

Dzulkifli of TNB Grid Maintenance North Division for his kind assistance in coordinating the technical visit and ensuring a smooth journey.

The enthusiastic participation of all delegates greatly enriched the programme, making it a rewarding and

memorable learning experience. Through initiatives such as this, TEEAM remains committed to promoting technical excellence, continuous professional development and stronger industry collaboration for the advancement of Malaysia's electrical and electronics industry!



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TEEAM JB Factory Tour & Networking 2026

The TEEAM Manufacturing Committee successfully organised the Johor Bahru (JB) Factory Tour 2026 on 20 & 21 May 2026, providing members with an excellent opportunity to gain first-hand exposure to local manufacturing operations, exchange industry knowledge, and strengthen professional networks. The tour highlighted the capabilities of Malaysian manufacturers and fostered greater collaboration between industry stakeholders.

The two-day programme attracted approximately 25 participants, comprising TEEAM members as well as Affiliate members from the Johor Bahru Electrical & Electronics Association (JBEEA). Participants represented a broad cross-section of the industry, including electrical contractors, traders and manufacturers, M&E consultants, and building management professionals. The diversity of participants contributed to valuable discussions and the exchange of perspectives throughout the programme.

The factory tour was led by Ms. Amanda Tan, TEEAM Vice Chair of the Manufacturing Group and Co-Chair of the Sports & Social Sub-Committee, together with Ms. Lihna Liow, TEEAM Council Member and Co-Chair of the Sports & Social Sub-Committee. Their concerted efforts contributed significantly to the smooth coordination and success of the programme.

Visit to JX Sky Technologies

The first stop of the tour was JX Sky Technologies Sdn Bhd, where participants were warmly welcomed by the management team. The visit focused on the company's range of energy-efficient LED emergency lighting solutions, featuring smart microprocessor-controlled technology designed to enhance reliability, performance,

and energy savings. Participants gained valuable insights into the design, manufacturing, testing, and quality assurance processes behind these innovative products, as well as the latest developments in emergency lighting systems.

During the factory tour, participants were given a close look at the production facilities and learned about the company's commitment to innovation, product quality, and continuous improvement. The visit also provided an opportunity for discussions on emerging technologies, energy efficiency, and evolving market requirements within the electrical industry.

The programme was complemented by a lunch hosted by JX Sky Technologies, allowing participants to further engage with the company's representatives in a relaxed setting while exchanging ideas and experiences.





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Factory Tour at Power Plug Busduct

Following lunch, the delegation proceeded to Power Plug Busduct Sdn Bhd for the second factory visit of the day.

The visit offered participants an in-depth understanding of busduct manufacturing, engineering processes, quality assurance measures, and the importance of reliable power distribution solutions in modern electrical installations. Participants were able to observe various stages of production and gain a deeper appreciation of the technologies and expertise involved in delivering high-performance busduct systems.

The interactive sessions and technical sharing further enriched the learning experience, providing participants with practical knowledge relevant to the electrical and energy industries.



Pickle, Sips & Social Networking Evening

After a productive day of factory visits, participants gathered at X Park Sunway Iskandar for the "Pickle, Sips & Social" networking session.

The evening featured friendly pickleball games, offering members a fun and engaging platform to interact outside the workplace. The sporting activities were followed by a dinner and social networking session, where participants strengthened professional relationships and exchanged ideas in a relaxed and enjoyable atmosphere.

The event successfully combined industry learning with fellowship, reflecting TEEAM's commitment to fostering both professional development and member engagement.



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Visit to Tai Sin Electric Cables

On the second day, participants visited Tai Sin Electric Cables (Malaysia) Sdn Bhd, one of the region's established cable manufacturers.

The factory tour provided valuable insights into cable manufacturing processes, quality assurance practices, testing procedures, and the technologies employed to ensure product reliability and compliance with industry standards. Participants gained a better understanding of the critical role that cable technologies play in supporting electrical infrastructure and energy systems.

The visit concluded with a technical sharing session and discussions on industry trends, bringing the two-day programme to a successful close.

A Valuable Learning and Networking Experience

The JB Factory Tour 2026 was both informative and rewarding, enabling participants to gain practical exposure to manufacturing operations across different segments of the electrical industry. The programme also strengthened ties between TEEAM members and industry partners, while promoting knowledge sharing and collaboration amongst professionals.

TEEAM extends its sincere appreciation to JX Sky Technologies Sdn Bhd, Power Plug Busduct Sdn Bhd, and Tai Sin Electric Cables (Malaysia) Sdn Bhd for their warm hospitality and willingness to share their expertise and industry insights with participants, throughout the programme.

Appreciation is also extended to Datuk Javy Kam, Chairman of the Johor Bahru Electrical & Electronics Association (JBEEA), and Mr. Victor Chang, Honorary Secretary of JBEEA, for their strong support and leadership in bringing a delegation from JBEEA to participate in the factory tour and the "Pickle, Sip & Social" networking event, further strengthening the friendship, collaboration, and ties between the two associations.

A special note of thanks goes to all participants for their enthusiastic involvement and contribution towards the success of this meaningful industry engagement and networking programme.

Last but not least, special appreciation is extended to Ms. Amanda Tan and Ms. Lihna Liow for their stellar leadership and commitment in coordinating and delivering a successful and memorable programme!



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TEEAM Business Delegation to Taiwan Smart City Summit & Expo 2026

A 16-member TEEAM Business VIP Delegation, led by Immediate Past President Ir. Chang Yew Cheong, explored smart city innovations at the Taiwan Smart City Summit & Expo (SCSE) and Net Zero City Expo 2026, held from 17 to 20 March 2026 at the Taipei Nangang Exhibition Centre. Organised by the Taipei Computer Association (TCA), the annual Expo is one of Asia's leading Smart City events, bringing together Government agencies, technology providers, industry leaders and business communities from around the world to showcase innovative solutions and foster international collaboration in smart city development.

The participation provided TEEAM members with an excellent platform to gain insights into emerging technologies, explore business opportunities and strengthen regional partnerships in areas such as artificial intelligence (AI), digital transformation, smart infrastructure, sustainable cities and intelligent energy solutions.

MatchMadeAsia: Taiwan, ASEAN, India AI-Powered Business Forum

A key highlight of the programme was the MatchMadeAsia: Taiwan, ASEAN, India AI-Powered Business Forum, held on 18 March 2026. The forum focused on enhancing economic cooperation and technology partnerships between Taiwan, ASEAN member countries and India, particularly in leveraging AI to accelerate industrial growth and smart city development. Delegates had the opportunity to hear insightful opening remarks from distinguished guests, who shared valuable perspectives on regional collaboration, AI-driven innovation, digital transformation strategies and the growing opportunities for cross-border partnerships between Taiwan, India and the ASEAN region.

Welcome Address by Dr. Chen-Yu Lee

Dr. Chen-Yu Lee, CEO of the International Cooperation Centre, Taipei Computer Association (TCA), welcomed delegates and expressed his appreciation to the distinguished speakers and participants from Taiwan, ASEAN countries and India for their strong support. He highlighted that the MatchMadeAsia Forum has evolved into an important platform for cross-border business networking and technology collaboration, leading to numerous partnerships, investments and innovation projects over the years. Dr. Lee emphasised that, in the era of AI-driven transformation, closer regional cooperation is essential to unlock new business opportunities and strengthen innovation ecosystems across Asia.

Malaysia's Smart City and Digital Transformation Journey

Representing the Malaysian Friendship and Trade Centre (MFTC), President Ms. Aznifah Abdul Ghani shared Malaysia's progress in digital transformation and reaffirmed the country's commitment to strengthening collaboration with Taiwan and regional partners. She highlighted Malaysia's record trade performance, particularly in the electrical and electronics (E&E) sector, and noted that Taiwan remains one of Malaysia's key trading partners. She highlighted that Malaysia's New Industrial Master Plan (NIMP) 2030 and National Energy Transition Roadmap (NETR) provide a strong foundation for cooperation in smart city solutions, AI innovation, smart manufacturing and green technologies. Ms. Aznifah also shared Malaysia's expanding smart city initiatives, including AI-driven traffic management, smart agriculture and predictive disaster management systems, while positioning Malaysia as a strategic gateway to the ASEAN market of over 660 million people.



Thailand's Vision for AI and Digital Economy

Mr. Naroong Boonsatthanwong, Executive Director of the Thailand Trade and Economic Office, emphasised Thailand's commitment to accelerating digital transformation and AI adoption as key drivers of economic growth. He highlighted Thailand's investments in AI, cybersecurity, robotics, cloud computing and data centres, supported by the expansion of clean energy infrastructure to meet future industrial needs. He also noted Thailand's growing role as a regional AI and digital infrastructure hub and welcomed greater collaboration with Taiwan in technology, innovation and business development, positioning Thailand as a gateway for Taiwanese companies seeking to expand into ASEAN. He concluded by reaffirming Thailand's commitment to facilitating regional partnerships and supporting future business collaborations.

Regional Collaboration in the AI Era

Mr. James Liu, Chairman of the ASEAN Society, spoke on the importance of regional collaboration amid rapid technological transformation. He noted that AI, advanced manufacturing and digital platforms are reshaping global industries and supply chains. He highlighted the complementary strengths of the participating regions—Taiwan's leadership in semiconductors and advanced manufacturing, ASEAN's rapidly expanding digital economy, and India's expertise in software development and digital innovation. He encouraged delegates to leverage the networking platform to exchange ideas, establish partnerships and create new opportunities for innovation and market expansion.

B2B Matchmaking Session

Following the forum, TEEAM delegates participated in a series of Business-to-Business (B2B) Matchmaking Sessions, where they met with Taiwanese companies specialising in AI, smart technologies, automation, electronics, renewable energy, information and communication technologies (ICT), and industrial digitalisation.

The business meetings enabled delegates to exchange ideas, discuss potential collaborations and explore opportunities for technology transfer, strategic partnerships, distributorships and future business ventures. The sessions also provided valuable networking opportunities with industry leaders and solution providers seeking to expand their presence in the ASEAN market and beyond.



Touring the Exhibition

The delegation toured all the exhibition halls featuring hundreds of exhibitors presenting the latest advancements in Smart City technologies.

Members explored innovative solutions encompassing AI, Internet of Things (IoT), smart energy management, smart transportation, intelligent buildings, cybersecurity, healthcare technologies, environmental sustainability and digital Government services. The exhibition provided valuable exposure to cutting-edge technologies and practical applications that could contribute to Malaysia's ongoing digital transformation and sustainable urban development.

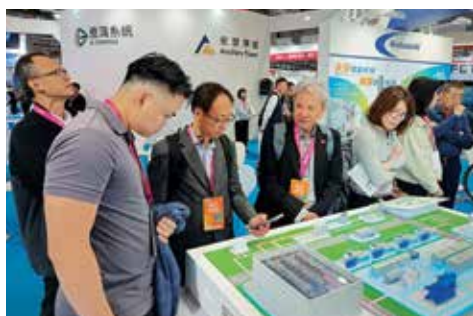
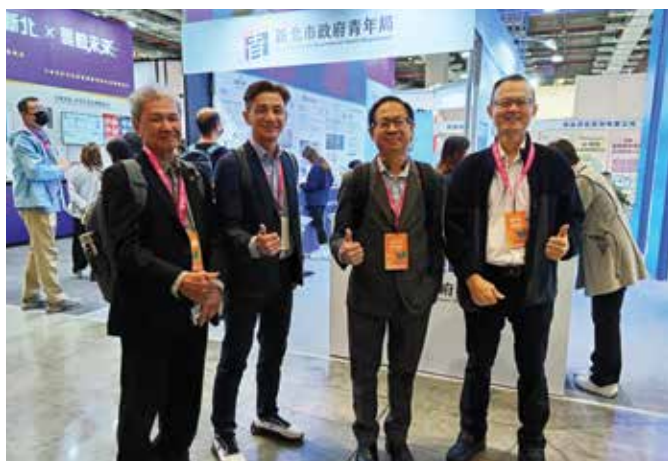
The delegation also interacted with exhibitors to gain deeper insights into emerging industry trends and technological developments while identifying potential solutions relevant to the Malaysian market.

Appreciation

TEEAM extends its sincere appreciation to the Taipei Computer Association (TCA) for the cordial invitation and the excellent arrangements throughout the programme. The well-organised forum, business matchmaking sessions and exhibition visits provided delegates with valuable opportunities to expand their professional networks, establish new business connections and gain first-hand knowledge of the latest Smart City and AI innovations.

TEEAM also expresses its heartfelt gratitude to all participating delegates for their enthusiastic support and proactive engagement, which contributed to the success of the mission. Such win-win international industry engagements continue to strengthen TEEAM's commitment to promoting knowledge exchange, fostering regional collaboration and creating business opportunities that truly benefit both the Association and Malaysia's bustling electrical and electronics industry!

Snapshots of
TEEAM Business
Delegation to
Taiwan Smart City
Summit & Expo
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What 100km Trail Running Teaches About Leading a Business

Training Is Strategy – Building Systems Before the Storm



UTOP 100km, October 2022 – Flagged off before dawn, wondering if months of preparation would be enough.

In October 2022, I stood at the starting line of the Ultimate Trails of Penang (UTOP) 100km race.

It was my second 100-kilometre ultra trail race. Earlier that year, I had completed the Cameron Ultra 100km, a goal that had consumed me for almost two years. Completing that race had given me confidence, but standing there in the darkness before the start of UTOP, I quickly realised that confidence and certainty are two very different things.

The race ahead would take runners through the rugged trails of Penang National Park, steep climbs, technical descents, dense jungle, and long hours of darkness. For most runners, the challenge was not merely physical. It was mental.

I remember standing there in the darkness, headlamp on, listening to the countdown. Around me were runners who looked stronger, faster and

more experienced. Despite completing a 100km race earlier that year, a small voice in my head kept asking, “What if today is different? What if I cannot finish?”

The funny thing about ultra running is that almost nobody feels fully ready. You can train for months. You can read books, watch YouTube videos, study nutrition plans, buy the latest gear, and complete countless training sessions. Yet when you stand at the start line of a 100km race, there will always be uncertainty.

You do not know how your body will respond after 15 or 20 hours on your feet. You do not know whether the weather will cooperate. You do not know whether you will suffer cramps, blisters, stomach issues, or moments of self-doubt.

The truth is that complete readiness is an illusion. That morning, standing at the start line, I realised

something important. The goal was never to feel ready. The goal was to be prepared. There is A significant difference. Feeling ready is emotional but being prepared is the result of consistent action.

As the race started, I reminded myself that I did not need certainty. I simply needed to trust the work I had already done. Months before that race, nobody saw the preparation. Nobody saw the early morning training runs before sunrise. Nobody saw the weekends spent climbing hills while most people were enjoying a leisurely breakfast.



Behind every race day are months of unseen training and quiet discipline.

Most people only see race day. They do not see the hundreds of small decisions that make race day possible. The preparation itself was not glamorous. It was repetitive. Often boring and sometimes uncomfortable. Yet those seemingly insignificant actions were quietly building something important—Capability.

And that lesson extends far beyond ultra running. In business, many leaders become obsessed with outcomes. We focus on sales targets, revenue growth, profit margins, market share, and expansion plans. These are important metrics, but they are not the primary drivers of success.

The real drivers are often invisible. Strong organisations are not built during periods of crisis. They are built long before the crisis arrives. When supply chains are disrupted, when markets slow down, when new competitors emerge, or when economic uncertainty appears, organisations do not suddenly become resilient.

They simply reveal the resilience they have already built.

The same principle applies on the trail. When runners hit the inevitable low points of a 100km race, they do not suddenly become stronger. They simply draw upon the strength they have already developed during training. Business works exactly the same way. Organisations rely on the systems, processes, culture, and people they have invested in over many years.



The toughest moments reveal the strength built during training.

At CONWAY, many of the systems we depend on today were built gradually over years. Technical training, quality procedures, documentation standards and succession planning may not seem exciting, but they are precisely what allow the organisation to perform consistently when customer demands increase or unexpected challenges arise.



Success depends on systems, not heroic effort.

Many businesses operate like runners who attempt to prepare for a 100km race a week

before the event. They react to problems only when problems appear. They train employees only when skill gaps become obvious. They improve processes only after mistakes occur. They invest in systems only after inefficiencies become painful.

By then, it is often too late.

Ultra runners understand that race day is simply the final examination. The real work happens during training. Business is no different. The marketplace is merely the examination hall. Preparation happens every day behind the scenes.



When the trail gets dark, preparation takes over.

One of the most valuable lessons I learned during my ultra running journey is that small actions compound over time. A single training run does not prepare someone for a 100km race. A single gym workout or a single healthy meal does not transform fitness. However, hundreds of training runs, hundreds of workouts, and hundreds of good decisions accumulated over time create remarkable results.

Organisational excellence is rarely the result of one initiative. It is the cumulative effect of hundreds of improvements made consistently over time.

Yet consistent effort, repeated over months and years, can completely transform a company. The challenge is that systems are not glamorous. Processes do not generate headlines. Training programmes rarely receive applause. Most people celebrate the finish line but overlook the preparation that made the finish possible.



Small actions, repeated consistently, create remarkable results.

When I finally crossed the finish line at UTOP 100km, there was a tremendous sense of achievement. Friends congratulated me. Photos were taken. A finisher's medal was hung around my neck. Yet as I reflected on the journey, I realised something important.

The race was never really about the medal. It was about who I had become during the months leading up to it. The early mornings when I chose to train instead of sleeping in. The weekends spent climbing hills while others were relaxing. The countless small decisions to eat better, recover properly, and keep going even when motivation was low.

The finish line simply revealed what those daily choices had built.



The finish line celebrated what months of preparation had built.

Over the years, I have come to see that business leadership works very much the same way. Most people see the visible outcomes. They see a growing company, a successful project, a strong team, or healthy financial results. What they rarely see are the years of preparation behind them.

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The training. The mentoring. The process improvements. The difficult conversations. The discipline of doing the right things repeatedly, even when there is no immediate reward.

At CONWAY, many of the systems and processes we rely on today were not built overnight. They were developed gradually, refined continuously, and strengthened through experience. Like ultra training, the work was often unglamorous. But when challenges arrived, those systems carried us forward.



Success is built long before the challenge arrives.

Looking back, perhaps the biggest lesson from UTOP 100km is this: Success is rarely determined on the day of the test. It is determined during the months and years beforehand.

Every training run mattered. Every hill repeat mattered. Every good decision mattered.

And while I did not feel completely ready standing at that starting line in Penang, I had done enough. The preparation was there. The systems were there. All that remained was to trust them and take the first step.

Then somewhere deep into the race, fatigue set in hard. The climbs felt steeper than expected and the finish line still seemed impossibly far away. Yet at no point did I need to become stronger than I already was. I simply relied on the training I had accumulated over the previous months.

As leaders, we will all face our own version of a 100km race. There will be uncertainty. There will be setbacks. There will be competition. There will be

moments when we question whether we are ready. The answer is that we probably never will be.

But if we have built the right habits, developed the right people, and established the right systems, we do not need certainty. We simply need to trust our preparation and keep moving forward. That is why training is not separate from strategy. Training is strategy.



UTOP 100km Finisher, 2022. The medal symbolised one day of achievement; the preparation represented months of growth.



The finish line was rewarding. The person I became along the way was the real achievement.

Albert Tan Tin Yau is the Managing Director of CONWAY Terminals Manufacturer Sdn Bhd, specialising in cable accessories and electrical connection solutions for power utilities and industrial infrastructure. He currently serves as the President of The Electrical and Electronics Association of Malaysia (TEEAM). An avid endurance athlete who has completed multiple 100km ultra trail races, he firmly believes that resilience, purpose and disciplined execution are extremely essential for long-term success in both business and life!





Malaysia-Türkiye Trade Mission and B2B Meetings

TEEAM was pleased to support the Malaysia-Türkiye Electrical & Electronics Trade Mission and Business to Business (B2B) Meetings, organised by The Electrical & Electronics Exporters' Association of Türkiye (TET) on 19 May 2026 at Hotel Royal Signature, Kuala Lumpur.

The event brought together industry leaders, business representatives, and Government officials from both countries with the common objective of fostering stronger trade relations, exploring business opportunities, and encouraging strategic partnerships within the electrical and electronics sector.

The programme commenced with welcoming remarks by Mr. Murat Kolbasi, Vice Chairman of TET Board, followed by an address from Mr. Albert Tan, President of TEEAM. In his speech, Mr. Albert Tan highlighted the growing economic relationship between Malaysia and Türkiye and emphasised the importance of industry collaboration in driving innovation, investment, and regional growth. He also noted that Malaysia remains an attractive hub for business expansion into the ASEAN market, while Turkish companies bring valuable technological expertise and innovative solutions that can complement the needs of the Malaysian industry.

The event was further honoured by the presence of His Excellency Mr. Emir Salim Yuksel, Ambassador of Türkiye to Malaysia, who reaffirmed the strong and longstanding friendship between the two nations and encouraged greater business engagement between Malaysian and Turkish enterprises.

A total of 16 leading Turkish companies participated in the trade mission, representing a wide range of sectors including transformers; high, medium and low voltage solutions; energy management systems; protection and control systems; power quality and monitoring solutions; electrical enclosures and cabinets; and other advanced electrical technologies.

The B2B meetings provided Malaysian companies with a valuable platform to engage directly with Turkish manufacturers and technology providers, allowing participants to explore potential distributorships, strategic alliances, technology exchanges, joint ventures, and regional market expansion opportunities.





Amongst the distinguished guests present were Mr. Murat Kolbasi (TET Board Vice Chairman), Mr. Levent Fadiloglu (TET Board Member), Dr. S. Armagan Vurdu (IMMIB Secretary General), Dato' Dr. Ts. Gerald Sundaraj (CIDB WPKL State Director), Mr. Albert

Tan (TEEAM President) and Mr. Chris Yow (TEEAM Honorary Secretary).

The successful event reflected the strong commitment of both Malaysia and Türkiye to deepen economic cooperation and industrial partnerships. It also demonstrated the significant potential for collaboration between companies from both countries in supporting technological advancement, sustainable growth, and business development across the region.

TEEAM extends its appreciation to TET, the Embassy of Türkiye, participating companies, and all attendees for making the event a meaningful and productive platform for bilateral engagement. The Association looks forward to continued collaboration with its Turkish counterparts and to further strengthening the business ties and friendship between Malaysia and Türkiye for many years to come.

Snapshots of Malaysia-Türkiye Trade Mission and B2B Meetings



Why Nylon Cable Ties Still Matter in Modern Electrical Installations

Derrick Wong

As Malaysia accelerates towards digital transformation, electrification, and industrial automation, electrical installations are becoming increasingly complex. High-density panel wiring, photovoltaic (PV) systems, data centres, electric vehicle (EV) charging infrastructure, and smart manufacturing environments demand structured and reliable cable management solutions.

Amid rapid technological evolution, one seemingly simple component continues to play a critical role in system integrity: NYLON CABLE TIES.

While often perceived as a low-cost accessory, nylon cable ties remain fundamental in ensuring safety, reliability, maintainability, and compliance across electrical and electronic installations in Malaysia.

Increasing Cable Density in Modern Installations

Modern switchboards and control panels contain significantly more wiring than in previous decades. Automation systems, PLCs, sensors, communication buses, and power circuits now coexist within compact enclosures. This increase in cable density presents several engineering challenges:

- Thermal management
- Electromagnetic interference (EMI) mitigation
- Mechanical strain control
- Serviceability and maintenance access

Proper bundling and routing are no longer cosmetic considerations; they are integral to system performance. Well-selected nylon cable ties provide controlled bundling that maintains conductor alignment while preventing excessive compression that could damage insulation. When installed correctly, they support airflow within enclosures, helping reduce localised heat accumulation—an important factor given Malaysia's tropical climate, where ambient temperatures frequently exceed 30°C

Material Properties and Engineering Performance

Most cable ties used in electrical installations are manufactured from Polyamide 6.6 (PA66), commonly referred to as Nylon 66. This engineering thermoplastic offers several properties relevant to Malaysian applications:

- High tensile strength
- Good resistance to abrasion
- Operating temperature typically from -40°C to +85°C (continuous)
- Good resistance to oils and many industrial chemicals
- Lower smoke density & halogen free
- Good resistance to ultraviolet (UV)
- Flame retardant

In Malaysia's humid environment, moisture absorption characteristics must also be considered. Nylon naturally absorbs a small percentage of moisture, which improves impact resistance but may slightly reduce tensile strength. For indoor installations, this characteristic is generally beneficial, enhancing flexibility and reducing brittleness.

For outdoor applications such as solar PV farms and rooftop installations, UV-stabilised black nylon cable ties are essential. Prolonged exposure to tropical sunlight without UV stabilisation can lead to embrittlement and premature failure. In such cases, compliance with recognised standards and verified UV resistance becomes critical to long-term reliability.

Fire Safety and Regulatory Considerations

Fire performance is a key concern in commercial buildings, industrial plants, and high-rise developments across Malaysia. Cable management components must not contribute significantly to flame propagation.

Flame-retardant cable ties are typically evaluated according to UL 94 flammability classifications (e.g., UL94 V-2). Although cable ties are small in mass, their cumulative presence in large installations—such as data centres or substations—warrants attention.

In projects referencing international standards such as IEC-based installation guidelines, material selection should align with overall fire safety design. Engineers and consultants should verify product compliance documentation, especially in Government or GLC infrastructure projects.

Mechanical Stability in Industrial Environments

Malaysia's manufacturing sector—ranging from semiconductor fabrication to palm oil processing—often involves vibration, dynamic movement, and exposure to chemicals. Improper cable restraint can lead to:

- Conductor fatigue
- Terminal loosening
- Insulation wear
- Increased maintenance frequency

Nylon cable ties provide mechanical stabilisation of cable runs, especially within control panels and machinery enclosures. When applied at appropriate intervals, they distribute mechanical loads and prevent stress concentration at connection points.

However, over-tightening is a common field issue. Excessive tension may deform insulation, particularly in smaller cross-sectional conductors. Installation tools with controlled tension settings are recommended in professional environments to ensure repeatable and safe fastening.

Role in Renewable Energy and EV Infrastructure

Malaysia's expansion of solar PV installations and EV charging infrastructure introduces additional environmental stresses. Rooftop and ground-mounted PV systems are exposed to:

- UV radiation
- Rain and humidity
- Temperature cycling
- Wind-induced vibration

Cable management in these systems must ensure long-term durability of over 20–25 years asset lifecycles. UV resistant nylon cable ties, when properly specified and installed, contribute to maintaining cable routing integrity and preventing abrasion against mounting structures.

Similarly, EV charging stations involve both power and communication cabling. Proper bundling reduces the risk of mechanical strain and supports professional workmanship standards expected in public-facing infrastructure.

Maintainability and Operational Efficiency

Well-organised cable routing significantly improves maintenance efficiency. In high-density installations such as data centres, structured bundling:

- Simplifies troubleshooting
- Reduces risk of accidental disconnection
- Enhances airflow management
- Improves overall safety

Poor cable management can increase Mean Time to Repair (MTTR), particularly when circuits are difficult to trace or access. Clear labelling combined with disciplined bundling practices using appropriate cable ties contribute to operational reliability.

From a lifecycle cost perspective, the marginal cost of quality cable management components is negligible compared to potential downtime or rework costs.

Sustainability Considerations

With Environmental, Social, and Governance (ESG) awareness increasing amongst Malaysian corporations, sustainability is becoming part of engineering decision-making. While nylon is a polymer-based material, proper selection and installation reduce waste caused by premature failure or replacement.

Engineers may also consider:

- Right-sizing cable ties to avoid unnecessary material use
- Avoiding over-specification
- Ensuring durability to minimise maintenance cycles

As electrical infrastructure becomes more critical to national growth—including digital economy initiatives and Industry 4.0 transformation—reliability and longevity must remain key evaluation criteria.

Conclusion

In the context of Malaysia's evolving electrical and electronics landscape, nylon cable ties remain highly

relevant. They contribute not only to neat installations but to safety, mechanical stability, thermal management, and long-term maintainability.

Despite their simplicity, cable ties form part of the foundational discipline of professional cable management. For engineers, consultants, and contractors, attention to such components reflects broader commitment to installation quality and system reliability.

As electrical installations grow in density and complexity, disciplined selection and application of cable management accessories—including nylon cable ties—will continue to support safe, compliant, and future-ready infrastructure across Malaysia.



Figure 1: Nylon66 cable tie with different colours.

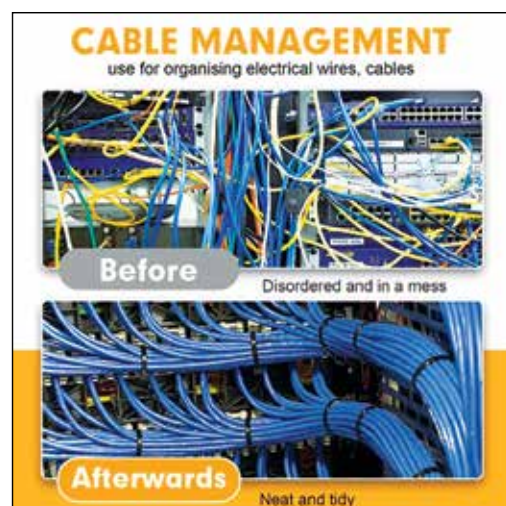


Figure 2: Cable Management before & after organising with nylon cable ties.



Figure 3: Selecting correct size cable tie supports airflow within enclosures, helping to reduce localised heat accumulation.

Author

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Chairperson, Digitalisation & Media Sub-Committee,
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METALTECH & AUTOMEX 2026

TEEAM was proud to have participated in METALTECH & AUTOMEX 2026, which was held from 20 to 23 May 2026 at the Malaysia International Trade and Exhibition Centre (MITEC) Kuala Lumpur, as both a Supporting Organisation and an Exhibitor.

Celebrating its 30th anniversary, the exhibition brought together leading manufacturers, technology providers, and industry professionals to showcase the latest innovations in automation, precision engineering, smart manufacturing, and Industry 4.0 solutions. TEEAM's booth cordially welcomed members, industry partners, and visitors, providing valuable opportunities for win-win networking, collaboration, and knowledge sharing. TEEAM member Mal-Autonics and Helukabel Malaysia, also took part as exhibitors.

The Opening Ceremony was officiated by YB (The Honourable) Sim Tze Tzin (Deputy Minister of Investment, Trade and Industry). Earlier, Mr. Gerard Leeuwenburgh (Country General Manager of Informa Markets Malaysia) and Mr. Mac Ngan Boon (President of MEIF) delivered Welcoming Remarks.

Held in conjunction with METALTECH & AUTOMEX 2026 was the Advanced Machinery & Engineering Summit 2026, organised by MEIF. The Summit brought

together industry leaders, policymakers, academia, and technology experts to discuss strategies for strengthening Malaysia's industrial capabilities and manufacturing competitiveness.

Under the theme "Strengthening Industrial Capability for the Next Phase of Manufacturing," the Summit explored key topics including industrial ecosystem development, supply chain resilience, operational excellence, artificial intelligence in manufacturing, and value creation through innovation. Participants gained valuable insights into emerging trends, challenges, and opportunities shaping the future of the manufacturing sector. It also featured interactive roundtable discussions and networking sessions, providing a platform for industry stakeholders to exchange ideas, foster collaboration, and identify pathways towards sustainable industrial growth and technological advancement. It highlighted the importance of capability building, digital transformation, and cross-sector partnerships in supporting Malaysia's pro-active journey towards a more resilient and globally competitive manufacturing industry.

Our heartiest congratulations to Informa Markets Malaysia on the successful hosting of this milestone event. TEEAM always remains committed to supporting the advancement and competitiveness of Malaysia's Manufacturing and E&E industries!





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Snapshots of METALTECH & AUTOMEX 2026





TEEAM Series of Technical Talks 01/2026

TEEAM successfully organised its first Technical Talk Series of 2026 on 15 April 2026 at the TEEAM Seminar Hall, Kuala Lumpur. The half-day programme attracted engineers, contractors, consultants, manufacturers, and industry professionals keen to enhance their understanding of electrical safety practices and accident prevention.

The event featured two distinguished speakers, Ir. Lam Sing Yew and Ir. Chew Shee Fuee, who shared their extensive industry knowledge and practical experiences on electrical safety in hazardous environments and the prevention of electrical accidents.

Electrical Safety in Hazardous Industry

The first technical session, presented by Ir. Lam Sing Yew, focused on the critical aspects of electrical safety within hazardous industries such as oil and gas, petrochemical plants, paint manufacturing facilities, and other environments where flammable gases, vapours, combustible dust, and high-risk operations are present.

Drawing from actual industry incidents, Ir. Lam highlighted how inadequate facility design, insufficient safety measures, poor maintenance practices, lack of competency, and equipment failures can contribute to serious accidents. He emphasised that understanding the root causes of incidents is essential in preventing recurrence.

The presentation covered key elements of hazardous area electrical safety, including hazardous area classification (HAC), risk zoning, identification and control of ignition sources, and the importance of managing static electricity. Particular attention was given to earthing and bonding systems, which play a crucial role in preventing electrostatic discharge that could ignite flammable atmospheres.

Participants also gained insights into the selection and application of explosion-protected (Ex) equipment, electrical shock protection measures, safety footwear compliance, and the importance of regular inspection and maintenance programmes.



Ir. Lam stressed that hazardous-area safety depends on a combination of proper design, certified equipment, effective maintenance, and continuous personnel training.

The session reinforced several key safety principles, including proper hazardous area classification, use of certified explosion-proof equipment, control of static electricity through grounding and bonding, systematic inspection programmes, and competency development for personnel working in hazardous environments.

How Can We Reduce Electrical Accidents

The second session was delivered by Ir. Chew Shee Fuee, TEEAM Past President and a highly respected industry practitioner with over four decades of experience in electrical engineering, protection systems, testing, and fault investigation.

His presentation examined electrical accident trends and safety performance based on data compiled by the Energy Commission (Suruhanjaya Tenaga) over the period from 2002 to 2022. Through statistical analysis and case studies, Ir. Chew highlighted recurring causes of electrical accidents and fatalities and discussed practical measures that can significantly reduce such incidents.

The session underscored that although the number of electrical accidents may not be increasing at an alarming rate, every accident is preventable through proper planning, adherence to safety procedures, competent supervision, and a strong safety culture. Real-life case studies illustrated how human error, negligence, inadequate maintenance, and non-compliance with established safety practices continue to contribute to avoidable incidents.

Ir. Chew emphasised that electrical safety is a shared responsibility involving employers, engineers, contractors, technicians, and end users. Continuous education, regular inspections, strict compliance with regulations and standards, and proactive risk management are essential in safeguarding lives and property.



Active Participation and Knowledge Sharing

The technical talks generated active engagement from participants, particularly during the question-and-answer session, where attendees exchanged views on practical challenges faced in implementing electrical safety measures across various sectors.

The programme provided valuable opportunities for industry professionals to deepen their understanding of current electrical safety challenges and best practices. It also reinforced TEEAM's ongoing commitment to promoting professional development, technical excellence, and safety awareness within Malaysia's electrical and electronics industry.

TEEAM extends its appreciation to both speakers for sharing their expertise and to all participants for their enthusiastic support. Through initiatives such as the

Technical Talk Series, TEEAM continues to provide meaningful platforms for knowledge sharing and industry advancement.



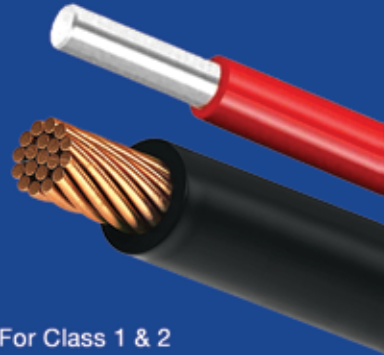
**Snapshots of TEEAM
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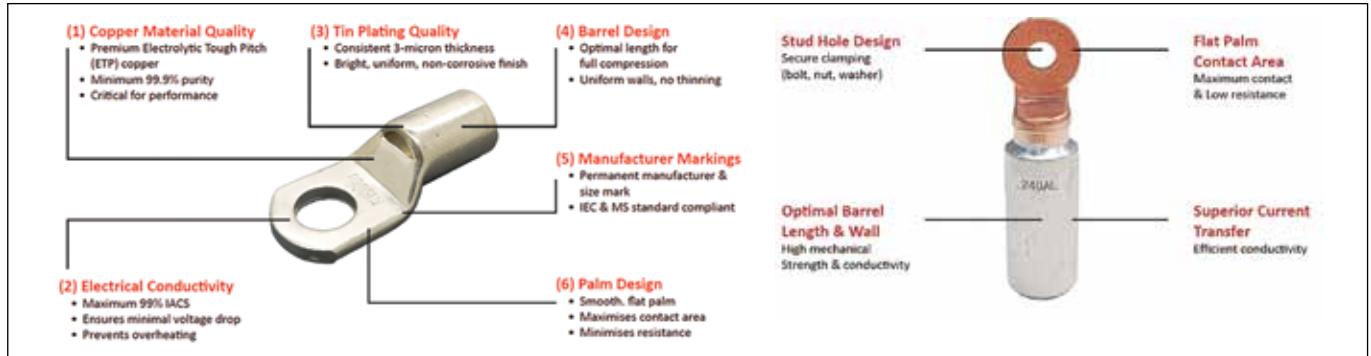
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MS1540, MS2584 and IEC61238-1: The Critical Role of Standards in Cable Termination Reliability

Choo WS



Key Requirement of a Standard Compliant Cable lug

In the electrical industry, attention is often focused on major assets such as transformers, switchgear, protection systems and power cables. These are undoubtedly critical components, but some of the most costly failures in electrical installations can often be traced back to something much smaller and less visible—the cable termination.

Whether in a commercial building, an industrial plant, a renewable energy facility or a utility substation, every electrical circuit ultimately relies on the integrity of its connections. A cable lug may appear to be a simple component, yet it serves as the final interface between the conductor and the equipment it powers. Every ampere of current flowing through a system must pass through this connection point.

If the termination is poorly designed, manufactured from inferior materials or incorrectly installed, the consequences can include overheating, voltage drop, equipment damage, unplanned outages and, in severe cases, fire.



Example of cable termination degradation observed in industry. Possible contributing factors may include insufficient wall thickness, improper conductor preparation, incorrect crimping dies or installation practices that resulted in elevated contact resistance and excessive heating.

Recognising the importance of cable terminations, Malaysia introduced MS 1540:2015, a standard developed to establish requirements for the material, marking and dimensions of compression cable lugs used with copper conductors. For applications involving aluminium conductors terminated onto copper equipment, Malaysia also established MS 2584:2014,

which specifies requirements for bi-metal compression connectors and lugs.

While these Malaysian Standards define the product requirements, materials, dimensions and marking requirements, both standards rely on IEC 61238-1 as the recognised international performance testing standard. IEC 61238-1 evaluates the electrical and mechanical performance of connectors through rigorous testing such as temperature rise, current cycling, short-circuit withstand and mechanical pull-out tests. Together, MS 1540:2015, MS 2584:2014 and IEC 61238-1 form an important framework for ensuring the safety, reliability and long-term performance of cable terminations used throughout Malaysia's electrical infrastructure.

The development of these standards reflects a simple reality: not all cable lugs are created equal. To the untrained eye, many products available in the market appear almost identical. However, the characteristics that determine long-term performance are often hidden beneath the surface. Factors such as material purity, electrical conductivity, barrel dimensions, wall thickness, palm design, plating quality and manufacturing consistency can vary significantly from one product to another. These differences may not be immediately visible during installation, but they can have a substantial impact on the reliability of a connection over many years of service.

Material



Copper material is the most important factor in cable lug's conductivity.



Bi-metal lug is a combination of copper and aluminium material, for its unique application, which is to terminate aluminium cable to copper termination. Both materials are important and essential to ensure cable lug's conductivity.

A cable lug is sometimes viewed as little more than a piece of metal formed into a tube with a mounting hole. In reality, it is a carefully engineered electrical connector. For copper compression lugs, MS 1540 specifies the use of Electrolytic Tough Pitch (ETP) copper with a minimum purity of 99.9% and electrical conductivity of at least 99% IACS. These requirements exist for good reason. Electrical conductivity directly affects resistance at the connection point. Higher resistance generates additional heat, and excessive heat remains one of the leading causes of termination failures in electrical systems. By specifying high-purity copper and minimum conductivity requirements, the standard helps ensure efficient current transfer and long-term performance.

The same engineering principles apply to bi-metal lugs. Although their construction differs, typically consisting of an aluminium barrel permanently joined to a copper palm, their function remains the same: to provide a low-resistance, mechanically secure and durable electrical connection. The transition between aluminium and copper is particularly critical because these dissimilar metals behave differently when exposed to electrical loading and environmental conditions. A properly manufactured bi-metal lug must therefore maintain both electrical continuity and mechanical integrity throughout its operational life.

In Malaysia, bi-metal compression connectors are covered under MS 2584:2014. This standard establishes requirements for materials, dimensions, marking and construction of bi-metal lugs used to connect aluminium conductors to copper equipment. Similar to copper lugs covered under MS 1540:2015, bi-metal connectors must demonstrate reliable performance under electrical and mechanical stress. To verify this performance, both Malaysian Standards utilise IEC 61238-1 as the recognised testing methodology.

One aspect of cable lug design that often receives insufficient attention is barrel geometry. Experienced installers understand that a successful termination depends not only on the quality of the crimping tool, but also on the design of the lug itself. Adequate barrel length ensures full conductor engagement, while sufficient wall thickness allows uniform compression during crimping.

Barrel length, proper dimension

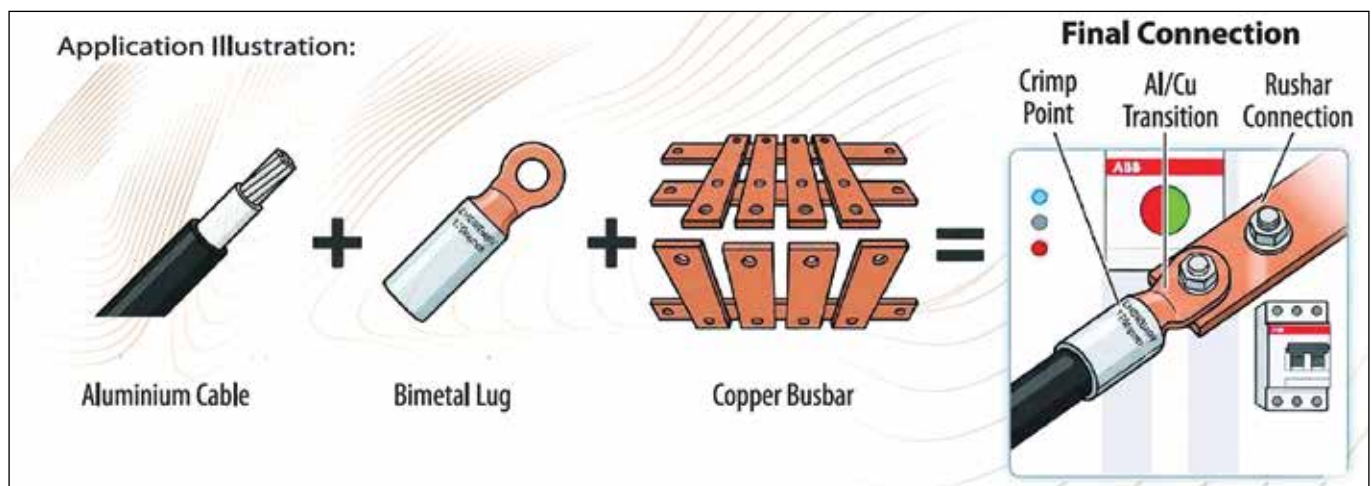


Sufficient barrel length, proper ID & OD, and consistent wall thickness are important.

Proper internal dimensions help achieve optimal contact between the conductor and connector, reducing resistance and improving mechanical retention.

In recent years, global cost pressures and increasing competition have encouraged manufacturers worldwide to optimise material usage. As a result, products available in the market today may differ significantly in barrel length, wall thickness, palm dimensions and overall mass. While material optimisation is not inherently undesirable, engineers and purchasers should ensure that any design changes continue to satisfy recognised standards and performance testing requirements.

This is where MS 2584:2014 and IEC 61238-1 become especially important. While MS 2584:2014 establishes the requirements for bi-metal connectors, IEC 61238-1 provides the performance testing methodology used to verify connector reliability under actual operating conditions. Products are subjected to temperature rise testing, current cycling, short-circuit withstand testing and mechanical pull-out testing to verify their ability to perform reliably under electrical and mechanical stress. These requirements provide confidence that the connector is capable of maintaining a stable connection throughout years of service, even in demanding environments.



Tin Plating Quality



Another important consideration is surface protection. Tin plating is often associated with appearance, but its true purpose is functional rather than cosmetic. A properly applied tin coating helps protect the connector against oxidation and corrosion while maintaining stable electrical contact over time. This becomes particularly important in tropical environments such as Malaysia, where high humidity, industrial pollution and coastal conditions can accelerate corrosion. For bi-metal connectors, effective surface protection is even more critical because two different metals are present within the same connection system.

Permanent Product Marking



Traceability is another area where standards contribute significant value. MS 1540 requires permanent markings that identify conductor size, material type and manufacturer information. These markings enable installers, inspectors and asset owners to verify product suitability and facilitate future maintenance activities. In an era where quality assurance and compliance requirements are becoming increasingly stringent, traceability has become an essential element of responsible engineering practice.

Of course, even the highest-quality cable lug cannot compensate for poor workmanship. Many termination failures occur not because of the connector itself, but because of improper cable preparation, incorrect crimping procedures, unsuitable dies or insufficient tightening torque. At the same time, excellent workmanship cannot fully overcome the limitations of a poorly designed connector. Reliable cable terminations are achieved only when quality products and proper installation practices work together.

Perhaps this is the most important lesson behind standards such as MS 1540:2015, MS 2584:2014 and IEC 61238-1. They are not merely technical documents filled with dimensions, material specifications and test requirements. Rather, they represent decades of collective industry experience and knowledge. They reflect lessons learned from successful installations, equipment failures, laboratory testing and field performance across countless electrical systems around the world.

As electrical networks continue to evolve and demand higher levels of reliability, the importance of cable terminations will only increase. Whether the application involves a copper compression lug in a low-voltage switchboard, a bi-metal lug in a utility distribution network or a critical connection within an industrial facility, the principle remains unchanged: long-term system reliability begins with a dependable electrical connection.

When selecting a cable lug, the most important question should therefore extend beyond cost alone. A more meaningful consideration is whether the product has been designed, manufactured and tested in accordance with recognised standards.

Compliance with MS 1540:2015 for copper lugs and MS 2584:2014 for bi-metal connectors ensures adherence to Malaysian requirements for quality, design and traceability. Testing to IEC 61238-1 further verifies their ability to withstand long-term electrical and mechanical stresses.

In many cases, the difference between decades of trouble-free service and a costly future failure may come down to a component that occupies only a few centimetres of space, yet carries the responsibility of transmitting thousands of amperes safely throughout its operational life.

Standards are sometimes viewed as procurement requirements or documentation obligations. In reality, standards represent accumulated industry experience developed through years of laboratory testing, field performance and failure analysis. Compliance therefore provides more than a certificate; it provides confidence that a product has been evaluated against recognised benchmarks for safety, reliability and performance.

Author

Choo WS - He is the Business Development Manager at Conway Terminals Manufacturer Sdn Bhd. Passionate about improving industry standards and best practices, he represents Conway in the Malaysian Standards Committee responsible for the drafting and revision of standards for cable lugs. He is committed to supporting the industry's growth through technical knowledge sharing and collaboration.



Summary of Malaysian Cable Connector Standards

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Links (Low voltage)



Heavy duty / High voltage



Dies & tooling





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State Associations News



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JBEEA Participates in TEEAM JB Factory Tour & Networking 2026

A delegation from the Johor Bahru Electrical & Electronics Association (JBEEA), led by Chairman Datuk Javy Kam and Honorary Secretary Mr. Victor Chang, participated in the TEEAM JB Factory Tour & Networking 2026 held on 20 & 21 May 2026.

The programme included visits to JX Sky Technologies Sdn Bhd, Power Plug Busduct Sdn Bhd, and Tai Sin Electric Cables (Malaysia) Sdn Bhd in Masai, Iskandar Puteri and Senai in Johor respectively, where participants gained valuable insights into manufacturing processes, technological innovations, and industry best practices.

JBEEA members also joined the "Pickle, Sip & Social" networking session at X-Park Sunway Iskandar, Johor Bahru, which provided an excellent platform for fellowship and industry networking amongst electrical contractors, traders, manufacturers, consultants, and other industry professionals.

The programme further strengthened the close relationship and collaboration between JBEEA and TEEAM while promoting knowledge sharing and industry engagement amongst members.



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PES Heralds Bright Future with New 2026-2027 Committee Installation

The Sabah Electrical Association (Persatuan Elektrik Sabah - PES) officially marked the beginning of a new chapter with a simple yet meaningful Installation Dinner, where the newly-elected Committee Members for the 2026-2027 term were formally sworn into office.

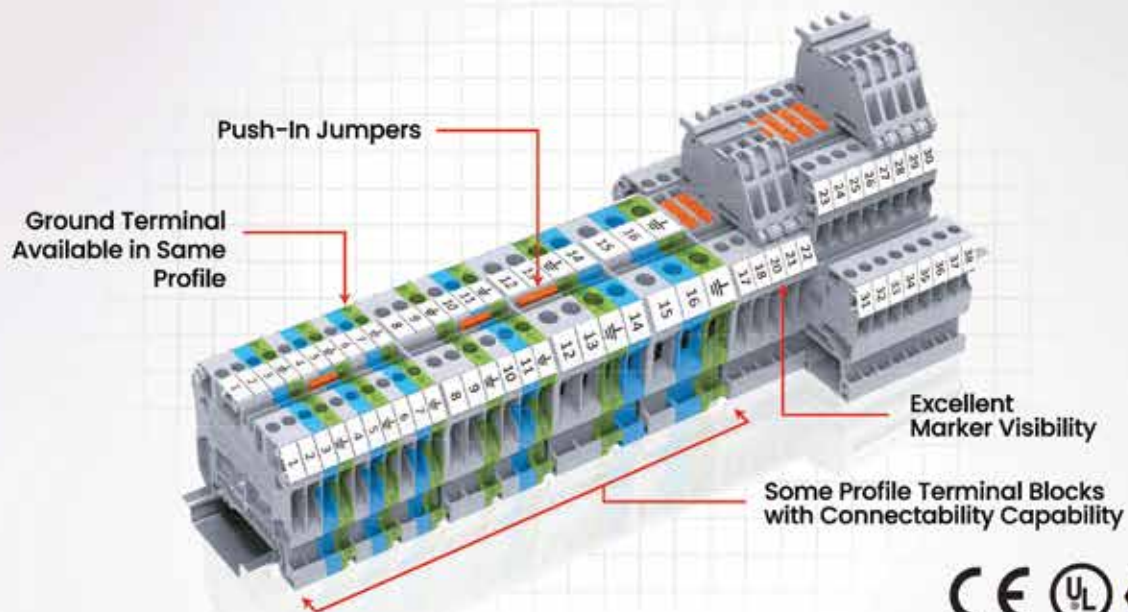
The memorable evening took place on 28 March 2026 at the renowned Alu-Alu Kitchen in Kota Kinabalu, bringing together key industry leaders, veterans, and members to celebrate the Association's ongoing mission to elevate electrical engineering and contracting standards in Sabah.

The highlights of the evening included the formal swearing-in ceremony, symbolising a shared commitment to fostering growth, technological adoption, and stricter safety standards within the local electrical sector over the next two years.

The dinner was graced by the presence of PES's esteemed advisory and audit panel, whose guidance

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remains foundational to the Association's success. Distinguished guests in attendance included:

- Technical Advisor: Ir. Syamsulflan Suffian
- Legal Advisor: Datuk Lee Chuen Wan JP
- Senior Advisor & Past President: Mr. Woo Soo Poo
- Internal Auditor: Mr. Clarence Chong

With an energetic and foresighted, newly-installed team under the fine leadership of the newly-installed President Mr. Aldrin Wong and the steady, solid backing of its seasoned Advisors, PES is well-positioned to navigate the evolving energy landscape of 2026-2027 and beyond. The Committee expressed its gratitude to all members for their continuous support and pledged to drive impactful initiatives, training programmes, and industry collaborations during their term of office.

Congratulations to the newly-installed 2026–2027 PES Committee of Sabah!





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Smart City Summit & Expo and Net-Zero City Expo 2026, Taiwan

The Sarawak Electrical Association (SEA) Vice Chairman Dato' Sri Ir. Peter Lu visited the Smart City Summit & Expo and Net-Zero City Expo 2026, hosted by the Taiwan Computer Association (TCA) at the Taipei Nangang Exhibition Centre from 17 to 20 March 2026.

Held under the theme "Digital and Green Transformation", the Expo served as a premier international platform bringing together policymakers, Government representatives, industry leaders, technology innovators and urban planners from around the world to explore the future of smart and sustainable cities. The event showcased the latest advancements in smart city technologies, digital infrastructure, artificial intelligence, renewable energy, green mobility, and net-zero solutions aimed at accelerating sustainable urban development.



SEA Strengthens Industry Engagement Through ENERtec Asia 2026 Visit

SEA was represented at ENERtec Asia 2026 by its Vice Chairman Dato' Sri Ir. Peter Lu, who visited the exhibition to engage with industry stakeholders and explore the latest developments in the regional energy and electrical sectors. Held at the Kuala Lumpur Convention Centre (KLCC), ENERtec Asia 2026 attracted leading exhibitors and professionals from around the world.

During the visit, Dato' Sri Ir. Peter Lu met with industry leaders, exhibitors, and association representatives while exploring emerging technologies and solutions supporting energy transition and sustainable development. The visit provided valuable insights into trends shaping the future of the industry and further strengthened SEA's connections with stakeholders across Malaysia and the wider region. SEA remains committed to supporting industry advancement through collaboration, knowledge sharing, and active participation in key industry events.



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PERDA Chinese New Year Gathering

The Perak Electrical Association (PEA) was cordially invited to attend the Chinese New Year gathering organised by the Perak Electrical Dealers Association (PERDA), held at the Association's premises on 7 March 2026. The joyful occasion provided a meaningful opportunity to foster friendship and strengthen ties between both associations during the festive season. Those present from PEA included Committee Members Mr. Richard Wong Ngen Wah, Mr. Low Kam Yoong, Mr. Low Kan Keen and Mr. Wong Kok Mun, as well as members Mr. Lam Yong Kang and Mr. Wong Seng Fei, amongst others.



Courtesy Visit from TEEAM

On 2 April 2026, a delegation from TEEAM paid a courtesy visit to PEA as part of its ongoing efforts to strengthen collaboration and foster closer ties amongst industry associations. The visit provided an excellent platform for leaders and members of both associations to exchange views on current industry developments, challenges, and opportunities facing the electrical and electronics sector.

Following the meeting, members from both associations enjoyed a networking lunch at Assam House Restaurant, Ipoh. PEA sincerely appreciates TEEAM's visit and looks forward to continued collaboration and closer engagement in the years ahead. Such interactions play a valuable role in strengthening the spirit of unity and cooperation within the industry.



PEA AGM & Executive Committee Election 2026

The 2026 Annual General Meeting (AGM) and the 37th Executive Committee Election for the term 2026-2027

were held at the PEA Choo Swee Yoong Conference Hall on 12 April 2026. In his speech, PEA President Mr. Richard Wong Ngen Wah thanked members for spending their time to attend the AGM. After the Executive Committee was dissolved, Mr. Lau Sin Leong was elected as the interim Chairman. Following the voting and ballot counting, the list of the new Executive Committee was officially announced. Mr. Richard Wong Ngen Wah was re-elected as President with overwhelming support and Mr. Au Wai Yeen was also re-elected as Deputy President. The Vice Presidents are Mr. Cheah Kong Yew AMP, Mr. Lau Sin Leong, Mr. Ngoi Ah Tee and Mr. Tiew Kah Wei. Meanwhile, Mr. Low Kam Yoong and Mr. Ngeow Khong Seng were re-appointed as Secretary and Treasurer respectively.



PEA Executive Committee Installation Ceremony

PEA Installation Ceremony for the 37th Executive Committee for the term 2026-2027 was held on 30 April 2026 at the Sun Lee How Fook Restaurant. PEA invited the association's Honorary President Mr. Chan Kaim Sam to act as the oath-taking witness. Attendees also included the Honorary Legal Advisor Mr. Andrew Soong, Honorary Electrical Advisor Ir. Joe Cheng Kok Jor, Honorary Electrical Advisor Ir. Ng Chee Yee, Honorary Electrical Advisor Ir. Wong Seak Wai, Honorary Medical Advisor Dr. Yek Sing Chee and Honorary Advisor Mr. Wan Kam Weng, amongst others. The event saw a gathering of Executive Committee and guests, all coming together to witness this significant occasion.



Wall Fans Donation for School

On 12 May 2026, under the fine leadership of PEA President Mr. Richard Wong Ngen Wah, Committee Members Mr. Au Wai Yeen, Mr. Low Kam Yoong, Mr. Ngeow Khong Seng, Mr. Ng Yew Cho and Mr. Low Kam Keen visited SJK(C) Chong Wah, a primary school to carry out classroom



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Keluar Sign



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wall fan donation activity, bringing care and comfort to the students. It is hoped that through this donation, the students will be provided with a more comfortable learning environment, allowing them to attend classes with peace of mind and enjoy their learning journey.



PEA Attending TEEAM AGM 2026

President Mr. Richard Wong Ngen Wah, represented PEA at the 74th TEEAM AGM 2026, which was held at Tropicana Golf & Country Club, Petaling Jaya, on 24 May 2026.

Mr. Wong's participation reflected the close and longstanding relationship between PEA and TEEAM, as well as PEA's commitment to supporting industry development and fostering greater collaboration. The AGM also offered an excellent opportunity for networking and the exchange of ideas with industry peers, enabling participants to gain a better understanding of emerging trends, challenges, and opportunities within the sector.

PEA congratulates TEEAM on the successful convening of its 74th AGM and looks forward to continuing its close collaboration with TEEAM in supporting initiatives that contribute to the progress and development of Malaysia's electrical and electronics industry.



PEA Delegation Visits ENERtec Asia 2026

A delegation from PEA, led by its President, Mr. Richard Wong Ngen Wah, visited ENERtec Asia 2026 at the Kuala Lumpur Convention Centre (KLCC) on 3 June 2026. As ASEAN's premier energy technology exhibition and conference, the event provided PEA members with an excellent opportunity to gain first-hand exposure to the latest developments in energy technologies, electrical solutions, and sustainable infrastructure.

During the visit, the delegation explored the extensive exhibition halls, engaged with exhibitors from Malaysia

and abroad, and attended selected conference sessions. The visit enabled members to exchange industry insights, strengthen professional networks, and better understand emerging trends in areas such as renewable energy, energy storage, smart technologies, and industrial energy efficiency. PEA's participation reflects its continued commitment to promoting industry knowledge, professional development, and business opportunities for its members!



Penang Electrical Merchants' Association

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E-mail: pema_pg@yahoo.com Website: www.pema.org.my

PEMA 78th AGM & Election of Office Bearers 2026-2027

The Penang Electrical Merchants' Association (PEMA) successfully held its 78th Annual General Meeting (AGM) and Election of Office Bearers/Management Council at the PEMA premises on 19 April 2026.

The meeting unanimously confirmed and adopted the Minutes of the 77th AGM held on 20 April 2025. This was followed by the presentation of the Annual Report for 2025 by Honorary Secretary Ir. Darren Lee, highlighting the Association's activities and achievements during the year. Honorary Treasurer Mr. Yeap Kim Poh, then presented the Audited Accounts for the financial year ended 31 December 2025, which were duly adopted by the members.

Following the successful conclusion of the AGM proceedings and election, the Election Chairman Mr. Koh Yeak Tong, announced the results of the Election of Office Bearers/Management Council for the 2026-2027 term.

PEMA Office Bearers/Management Council for 2026 -2027

Chairman	Koh Yeak Tong
Scrutinisers	Steve Koh Cheang Shern Kelvin Loo Pooi Ming, Kevin Nia Jun Hau
Trustees	Dato' Seri Hong Yeam Wah, Khaw Tatt Siew, Teoh Yew Yean, Cheah See Yeong
Executive Advisor	Dato' Seri Hong Yeam Wah
Association Advisors	Dato Ooi Kok Kee, Lai Chang Hun, Foo Sing Tatt, Ir. Chen Chin Peng Chiem Boon Kooi
President	Neoh Boon Tong
Deputy President	Lee Kuan Meng
Immediate Past President	Ir. Lee Weng Keen
Honorary Secretary	Ir. Lee Weng Keen
Asst Honorary Secretary	Steve Koh Cheang Shern
Honorary Treasurer	Yeap Kim Poh
Council Members	Teoh Yew Yean, Choo Kwang Wah Lim Kim San , Khaw Tatt Siew Cheah See Yeong, Kelvin Nia Jun Hau Ir. Ong Beng Siong, Kelvin Loo Poi Ming
Contractors' Committee	Teoh Yew Yean
Manufacturers' Committee	Kevin Nia Jun Hau
Suppliers' Committee	Steve Koh Cheang Shern
Technical Committee	Ir. Ong Beng Siong
Disciplinary Committee	Choo Kwang Wah
Constitution /	
By-Law Committee	Cheah See Yeong
Welfare Committee	Lim Kim San
Property Committee	Lim Kim San
Membership &	
Recruitment Committee	Ir. Ong Beng Siong
Education Fund Committee	Khaw Tatt Siew
IT & Multimedia Committee	Kelvin Loo Pooi Ming
Technical Advisors	Ir. Beh Hong Pin, Ir. Chen Chin Peng Ir. Tan Yeow Joo, Ir. Tan Tea Hwa
Legal Advisor	Mr. Oh Han Loon
Honorary Auditor	Chu Kerd Yee
Honorary Member	Koh Ah Tee, Foo Sing Tatt Lai Chang Hun

TEEAM Technical Visit to TNB Transmission Towers, Courtesy Visit to PEMA and Networking Lunch

PEMA Honorary Secretary Ir. Darren Lee, participated in the TEEAM Technical Visit to TNB's innovative diamond-shaped transmission towers in Penang on 3 April 2026. The visit provided members with a valuable opportunity to gain first-hand insights into this landmark power transmission project while fostering stronger industry engagement and collaboration.

The 275kV double-circuit transmission line spans approximately 9 kilometres across the Penang Channel, connecting the mainland and Penang Island! The distinctive diamond-shaped pylons, the first of their kind in Malaysia, represent a significant engineering achievement and play a vital role in enhancing the reliability and capacity of Penang's electricity supply. The transmission system

is capable of delivering up to 2,000MW of power from the national grid, supporting the state's growing energy requirements and future development.

Thereafter, the participants paid a Courtesy Visit to the PEMA Office, where they were warmly received by the PEMA Management Council. The visit provided an excellent opportunity for both Associations to exchange views on current industry developments, discuss areas of mutual interest, and explore opportunities for closer collaboration. The cordial interaction further strengthened the longstanding relationship between TEEAM and PEMA, reinforcing their shared commitment to supporting the growth and advancement of the electrical and electronics industry.

Following the visits, participants attended a networking lunch hosted by TEEAM together with the PEMA Management Council at Pen Mutiara Batu Maung Restaurant in Penang. PEMA President Mr. Neoh Boon Tong, extended a warm welcome to the participants and expressed his sincere appreciation for the strong support shown by members and industry stakeholders.





PKPPE Members Gain Industry Insights at ENERtec Asia 2026

The Persatuan Kekompetenan Penjaga Jentera & Pendawai Elektrik, Perak – PKPPE (Perak Electrical Chargemen & Wiremen Competency Association) President Mr. Tony Leong and members of PKPPE visited ENERtec Asia 2026 at the Kuala Lumpur Convention Centre (KLCC) on 3 June 2026. The exhibition brought together leading industry players, technology providers, and energy professionals from across the region, offering valuable exposure to the latest innovations and market developments.

The visit provided PKPPE members with opportunities to learn about new technologies, products, and solutions relevant to the electrical and energy industries. Members also engaged with exhibitors and industry stakeholders, gaining valuable insights into developments in electrical infrastructure, energy efficiency, renewable energy, and workforce competency requirements. The visit supports PKPPE's ongoing efforts to enhance the knowledge and professional capabilities of its members while keeping pace with industry transformation.



PKPPE AGM & Election 2026

The 2026 Annual General Meeting (AGM) and Election of Persatuan Kekompetenan Penjaga Jentera & Pendawai Elektrik Perak – PKPPE (The Perak Electrical Chargemen & Wiremen Competency Association) was successfully held on 20 June 2026 at the PKPPE premises. The AGM provided members with an opportunity to review the Association's activities and achievements, and to discuss future plans. An election was held during its AGM to elect a new Committee to lead the Association for the 2026–2028 term.

Its President Mr. Tony Leong was re-elected as President for another term. Below is the results of the election. The newly-elected Committee for the 2026–2028 term is fully committed to strengthening the Association, promoting professional excellence, and enhancing the competency and development of wiremen and chargemen throughout Perak.



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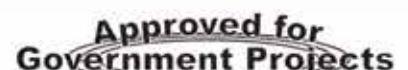
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PKPPE Committee Members for 2026 – 2028

President	Leong Kwong How (Tony)
Deputy President	Ong Kean Seng
Vice Presidents	Lim Kam Yuen , Quah Hoo Kooi, Kong Chee Yuen, Kong Kean Wei (Steven) & Leaw Chee Khen
Secretary	Andrew Lee Chan Wah
Vice Secretary	Lam Meng Yang
Treasurer	Wong Chen Yu (Stanley)
Committee Members	Khoo Soon Seng (Kelvin), Tan Soo Cho, Kan Kok Meng, Tan Fong Lai, Leong Chun Kit, Gan Si Mia, Teoh Choon Kiang (Edmund)
Auditor	Wong Choon Mun (Jacky) Kenny Foo
Web Moderator	Ng Yew Cho



Electrical Association of Sarawak & Sabah

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Smart City Summit & Expo and Net-Zero City Expo 2026, Taiwan

EASS Vice Chairman 1, Mr. Lee Joon Lee, led a 7-member delegation to visit the Smart City Summit & Expo and Net-Zero City Expo 2026, held at the Taipei Nangang Exhibition Centre, Taiwan, from 17 to 20 March 2026. The event was organised by the Taiwan Computer Association (TCA).

The Expo featured a comprehensive showcase of innovative solutions and emerging technologies in areas such as smart city management, artificial intelligence, energy efficiency, renewable energy, intelligent transportation and sustainable urban development. The visit provided the EASS delegation with valuable exposure to global trends and best practices in smart city implementation and net-zero initiatives.



EASS Delegation Visits ENERtec Asia 2026

A 16-member delegation from the Electrical Association of Sarawak & Sabah (EASS), led by its Chairman Mr. Hii Hua Chuon, visited ENERtec Asia 2026 at the Kuala Lumpur Convention Centre (KLCC) on 3 June 2026. As ASEAN's premier energy technology exhibition and conference, the event provided EASS members with valuable exposure to the latest innovations, technologies, and market developments across the electrical and energy sectors.

During the visit, the delegation toured the exhibition halls, engaged with exhibitors from Malaysia and abroad, and explored a wide range of products and solutions related to power distribution, renewable energy, energy storage, smart technologies, industrial applications, and electrical infrastructure. The visit also enabled members to exchange ideas with industry professionals and gain deeper insights into emerging trends supporting the region's energy transition and digital transformation.

The participation of EASS at ENERtec Asia 2026 reflects the association's commitment to promoting industry knowledge, professional development, and business networking opportunities for its members. Through proactive engagement in major industry events, EASS continues to successfully support the advancement of the electrical and energy industries in Sarawak, Sabah, and the wider region.

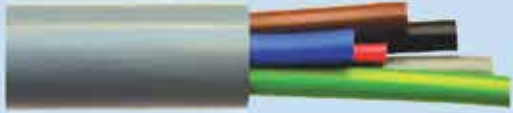
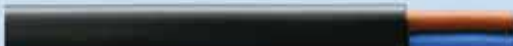
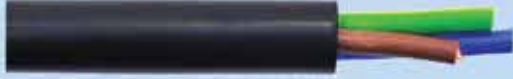




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Technical Visits to Master Tec Wire & Cable and Linkk Busway Systems

In conjunction with the EASS Delegation's visit to ENERtec Asia 2026 in Kuala Lumpur, EASS organised two Technical Visits to leading industry players, namely, Master Tec Wire & Cable Sdn Bhd on 4 June 2026 and Linkk Busway Systems (M) Sdn Bhd on 5 June 2026. These visits provided members with valuable opportunities to gain practical insights into the latest developments in electrical manufacturing, quality assurance, and power distribution technologies.

During the visit to Master Tec Wire & Cable, members were given an informative tour of the company's manufacturing facilities and production processes. The Delegation gained a deeper understanding of the various stages involved in the production of electrical cables, from raw material selection and conductor manufacturing to insulation, testing, and quality control procedures. The industrial factory visit highlighted the importance of strict compliance with international standards, product reliability, and continuous innovation in meeting the evolving needs of the electrical and energy sectors. Members also had the opportunity to exchange views with the company's technical team on industry trends, sustainability initiatives, and advancements in cable technology.

Thereafter, the EASS Technical Visit to Linkk Busway Systems provided participants with valuable exposure to modern busway solutions used in commercial, industrial, and infrastructure projects. Members learned more about the design, manufacturing, and application of Busway Systems.

The visit showcased busway technology, including enhanced safety, ease of installation, space optimisation, energy efficiency, and simplified maintenance. Participants also gained practical insights into the role of busway systems in supporting high-capacity power distribution requirements for data centres, manufacturing facilities, and large-scale developments.

EASS Chairman Mr. Hii Hua Chuon extends his sincere appreciation and heartfelt thanks to the management and technical teams of Master Tec Wire & Cable and Linkk Busway Systems for their

warm hospitality, comprehensive presentations, and willingness to share their highly valuable and industry-centric expertises and experiences! Their support and commitment to industry knowledge-sharing greatly contributed to the success of these Technical Visits and are very deeply appreciated by all participants. Kudos to them!



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TEEAM Pickleball Tournament 2026

TEEAM marked another milestone with the successful staging of its inaugural Pickleball Tournament 2026 on 19 April 2026 at Pickle Nation, Hicom-Glenmarie, Shah Alam, Selangor. The Tournament brought together members and sponsors for a day of friendly competition, networking and fellowship.

The event commenced with registration and a light breakfast, followed by welcome remarks from TEEAM Sports & Social Sub-Committee Advisor and Vice President, Ir. Dr. Ng Kok Chiang. The eager-beaver participants were then briefed on the Pickleball Tournament Rules before gathering for a group photo to mark the maiden occasion. The Tournament officially got underway at 9.00 am, with players competing enthusiastically across the Men's Doubles and Mixed Doubles categories.

A total of 25 pairs participated in the tournament, comprising 12 pairs in the Men's Doubles category and 13 pairs in the Mixed Doubles category. Players first competed in a round-robin format before advancing to the knockout stages, where the intensity and excitement increased as teams battled for a place in the finals. Throughout the day, players displayed determination, teamwork and sportsmanship, creating a lively and enjoyable atmosphere both on and off the courts!

Beyond the excitement of the matches, the Tournament offered a wonderful platform for members to connect in a relaxed and friendly atmosphere, strengthening friendships and building stronger industry relationships. The enthusiastic response from TEEAM members, together with the generous support of sponsors and the rising popularity of pickleball, made this inaugural tournament a resounding success. The event also highlighted the important role that sports can play in fostering camaraderie, networking, and community spirit amongst TEEAM members.

The Pickleball Tournament concluded with a prize presentation ceremony in the afternoon, honouring the winning teams and celebrating the spirit of sportsmanship and participation displayed throughout the event.

TEEAM records its sincere appreciation to the sponsors, players, volunteers, and the Sports & Social Sub-Committee, under the leadership of Co-Chairs Ms.

Amanda Tan and Ms. Lihna Liow, for their invaluable support and commitment in making the tournament a truly memorable success.

Building on the highly encouraging response to its inaugural tournament, TEEAM looks forward to organising more sporting and social activities that promote healthy lifestyles, strengthen professional networks, and enhance member engagement within the electrical and electronics industry.

Will you be joining us at the next TEEAM Pickleball Tournament? Gather your colleagues and team members, and be part of another exciting event filled with friendly competition and valuable networking opportunities.

We look forward to seeing you on the court!

For enquiries regarding advance registration and sponsorship opportunities, please contact Thila at thila@team.org.my







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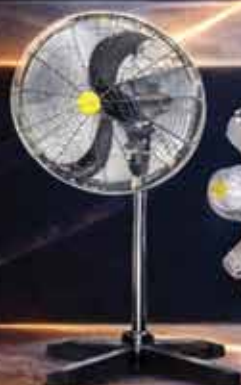
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Malaysian Economic Statistics Review (MESR)

Volume 6/2026: Key Reviews & Overviews

The Department of Statistics, Malaysia (DOSM) had recently released the Malaysian Economic Statistics Review (MESR) Volume 6/2026 on 30 June 2026. This edition features a comprehensive review of Malaysia's economic performance in 2026, highlighting key indicators, developments, and initiatives like the Economic Census and global rankings. The MESR will assist users and readers to have the latest information on the economic performance, and in much greater detail.

Key Reviews

- According to the World Bank, global growth is forecast to moderate to 2.5 per cent in 2026, easing from 2.9 per cent in 2025. Growth in Emerging Markets and Developing Economies (EMDE) is also set to decelerate, reaching 3.6 per cent this year. In fact, every EMDE region is expected to record weaker performance in 2026 compared to the previous year. If energy supply disruptions prove more severe than anticipated, global growth could plunge to just 1.3 per cent in 2026. Beyond energy, persistent trade policy uncertainty, escalating geopolitical tensions, and climate-related shocks also pose significant risks to the global economy.
- Natural Rubber (NR) production registered a continued contraction in April 2026, declining by 8.8 per cent (18,515 tonnes) as compared to March 2026 (20,310 tonnes). Conversely, the year-on-year assessment indicated a modest expansion, with the NR production rising by 2.8 per cent (April 2025: 18,008 tonnes). Meanwhile, fresh fruit bunches produced in May 2026 decreased by 4.6 per cent to 7,624,035 tonnes as compared to April 2026 (7,995,052 tonnes). Year-on-year comparison showed a decrease of 15.8 per cent as compared to May 2025 (9,051,118 tonnes).
- The Industrial Production Index (IPI) posted strong gains in April 2026, rising 8.2 per cent year-on-year (March 2026: 3.1%). The Manufacturing sector continued to anchor the growth, expanding 8.3 per cent (March 2026: 5.5%) coupled with the turnaround to 6.8 per cent in the production of the Mining sector (March 2026: -6.5%). In the meantime, the Electricity sector surged by 10.5 per cent (March 2026: 4.8%) during the month. However, on a month-on-month basis, the IPI experienced a contraction of 3.4 per cent after registering a strong 9.3 per cent expansion in the previous month.
- Malaysia's Manufacturing sector continued to show resilience in April 2026, with sales climbing to RM175.0 billion, reflecting a 9.1 per cent increase compared with 5.3 per cent in March. The surge was led by the Electrical and Electronics sub-sector, which posted a strong 13.4 per cent growth (March: 13.3%). Gains were also supported by the Food, Beverages and Tobacco segment, up 9.0 per cent (March 2026: 7.8%), and the Petroleum, Chemical, Rubber and Plastics sub-sector, which rebounded with a 4.4 per cent rise after contracting 5.1 per cent in March of the same year. On a month-to-month basis, Manufacturing Sales edged up by 1.1 per cent, rising from RM173.1 billion in March 2026 to RM175.0 billion.
- Malaysia's Wholesale and Retail Trade continued its strong momentum in April 2026, with total sales surging to RM174.8 billion, a robust 15.3 per cent increase compared to the same month last year. The Volume Index also rose by 6.2 per cent year-on-year, underscoring broad-based expansion across all sub-sectors. Wholesale Trade led the charge, posting RM83.5 billion in sales, up RM16.2 billion from April 2025, increasing by 24.1 per cent alongside a 7.3 per cent rise in volume. Retail Trade followed with steady gains, recording RM71.0 billion in sales, an uplift of RM4.2 billion or 6.3 per cent year-on-year. Meanwhile, the Motor Vehicles sub-sector maintained its upward trajectory, achieving RM20.4 billion in sales – an increase of RM2.7 billion, marking a 15.5 per cent growth compared to the previous year.
- In terms of prices, Malaysia's Inflation rose 1.9 per cent in April 2026, with the index climbing to 136.9 from 134.3 a year earlier. Main contributors included Alcoholic Beverages & Tobacco (2.8%), Information & Communications (2.0%), Food & Beverages (1.2%), and Furnishings & Household Maintenance (0.4%). Monthly headline inflation edged up to 0.4 per cent from 0.3 per cent in March, driven by Transport (2.5%), Information & Communications (1.6%), Restaurants & Accommodation (0.4%), Recreation & Culture (0.3%), Alcoholic Beverages & Tobacco (0.2%), and Furnishings & Household Maintenance (0.2%). Meanwhile, Inflation in May 2026 continued to increase by 2.0 per cent.
- Malaysia's Producer Price Index (PPI) rose 5.4 per cent in April 2026, marking the highest increase since August 2022. All sectors recorded increases during the month, with the Mining sector registering a robust increase of 53.4 per cent (March 2026: 26.5%) mainly driven by the Extraction of Crude Petroleum Index (74.5%). On a month-on-month basis, the PPI continued its upward trajectory, rising by 3.2 per cent after a stronger 4.1 per cent increase in the previous month. The Mining sector recorded a double-digit increase of 19.8 per cent (March 2026: 32.9%), underpinned by notable growth in both Extraction of Crude Petroleum (21.4%) and Extraction of Natural Gas (12.0%) Indices. Meanwhile, PPI recorded a higher increase of 7.8 per cent year-on-year in May 2026.

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in	mm	in	mm	in	mm	in	mm	in	kg/m	kg/ft	lb/ft	PER INCH	mm	in	mm	in
¾	18.76	0.7387	19.05	0.7500	1.52	0.060	1.63	0.064	0.713	0.217	0.479	16	12.70	0.5000	14.29	0.5625
1	25.11	0.9887	25.40	1.0000	1.52	0.060	1.63	0.064	0.972	0.296	0.653	16	15.88	0.6259	17.46	0.6875
1¼	31.46	1.2387	31.75	1.2500	1.52	0.060	1.63	0.064	1.240	0.376	0.830	16	17.46	0.6875	19.05	0.7500
1½	37.80	1.4880	38.10	1.5000	1.73	0.068	1.83	0.072	1.680	0.511	1.130	14	19.05	0.7500	20.64	0.8125
2	50.50	1.9880	50.80	2.0000	1.93	0.076	2.03	0.080	2.510	0.765	1.690	14	22.23	0.8750	23.81	0.9375

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	MINIMUM	MAXIMUM		MINIMUM	MAXIMUM		MINIMUM	MAXIMUM
mm	mm	mm	mm	kg/m	kg/m	mm	mm	mm
20	19.7	20.0	1.6 ± 0.15	0.643	0.783	1.5	13	15
25	24.6	25.0	1.6 ± 0.15	0.811	0.995	1.5	16	18
32	31.6	32.0	1.6 ± 0.15	1.069	1.301	1.5	18	20

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	MINIMUM	MAXIMUM	MINIMUM	MINIMUM
mm	mm	mm	mm	mm
20	19.7	20.0	1.6 ± 0.15	13
25	24.6	25.0	1.6 ± 0.15	16
32	31.6	32.0	1.6 ± 0.15	18



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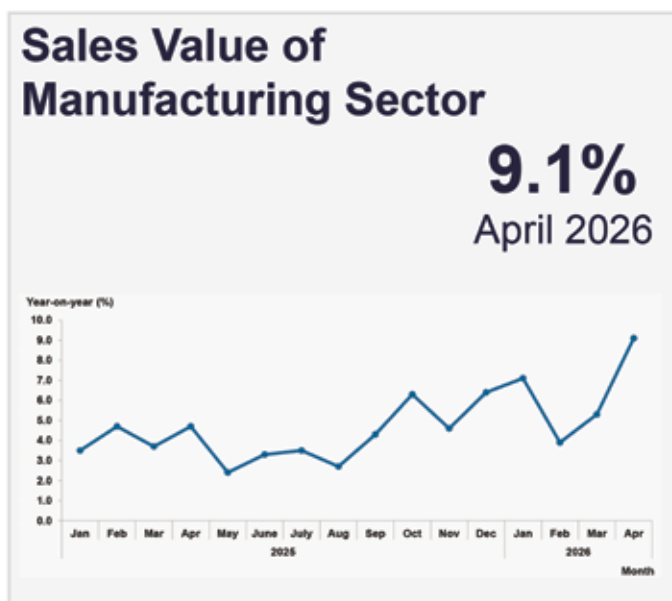
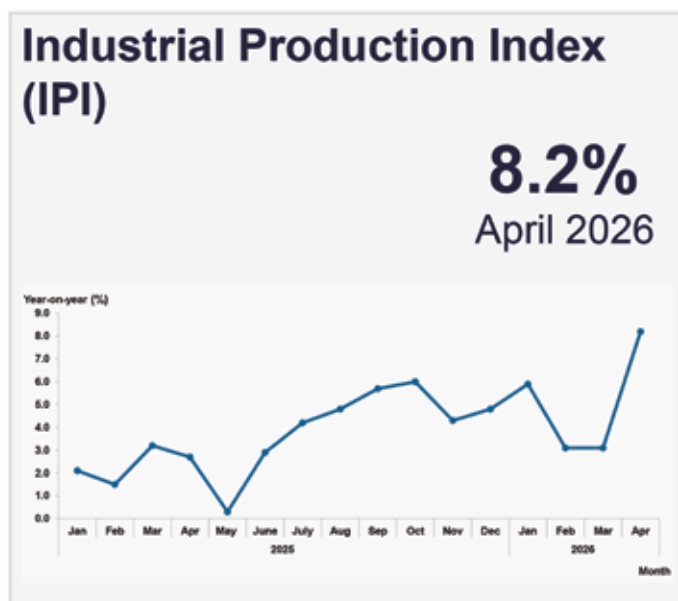
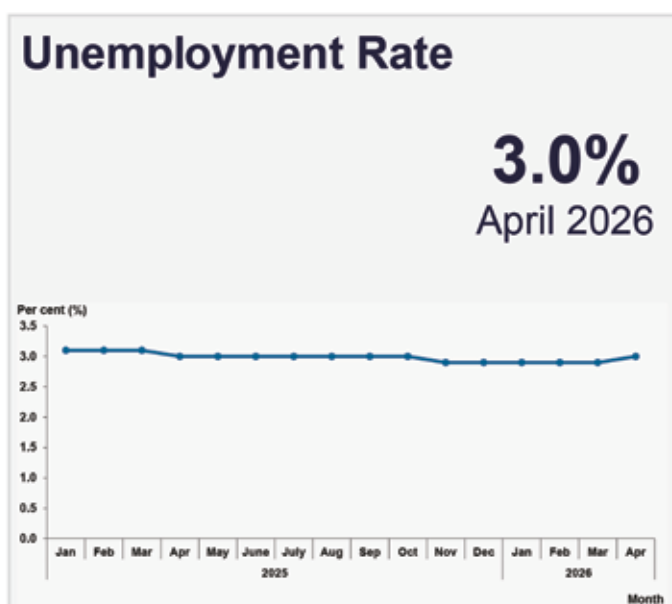
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- Malaysia's Trade Performance remained resilient in April 2026, buoyed by sustained expansion in both Exports and Imports. Total Trade surged by 28.6 per cent, climbing from RM261.9 billion to RM336.7 billion. This was propelled by robust growth in Exports, which rose by 36.9 per cent to RM182.7 billion, alongside a solid 20.0 per cent increase in Imports, valued at RM154.0 billion. On a month-to-month comparison with March 2026, Exports, Imports, Total Trade and Trade Surplus demonstrated growth by 22.8 per cent, 23.9 per cent, 23.3 per cent and 17.4 per cent, respectively. Notably, the surplus widened sharply, soaring 460.5 per cent to RM28.8 billion in April 2026. As for May 2026, Total Trade sustained a double-digit growth of 29.8 per cent, anchored by continued expansion in both Exports and Imports.
- The Labour Force in April 2026 edged up by 0.1 per cent to 17.33 million persons compared to 17.31 million persons in March 2026. Meanwhile, the Labour

Force Participation Rate remained unchanged at 70.9 per cent, with 16.82 million persons employed, an increase of 0.1 per cent (March 2026: 16.80 million persons). The Unemployment Rate during the month rose by 0.1 percentage points to 3.0 per cent (March 2026: 2.9%), returning to the level recorded in October 2025.

- Malaysia's Economic Indicators for April 2026 showed improved performance, with the Leading Index (LI) rising 1.29 per cent to 115.0 points from 113.5 a year earlier, driven mainly by Number of Housing Units Approved (35.5%). On a monthly basis, the LI grew 1.25 per cent, supported by New Company Registrations and Semiconductor Imports, reflecting strong technology-driven activity and demand in the Electrical and Electronics sector. Despite remaining below 100.0 points in its smoothed long-term trend, the LI signalled an optimistic growth outlook amid global uncertainties.

Key Economic Indicators



Note:

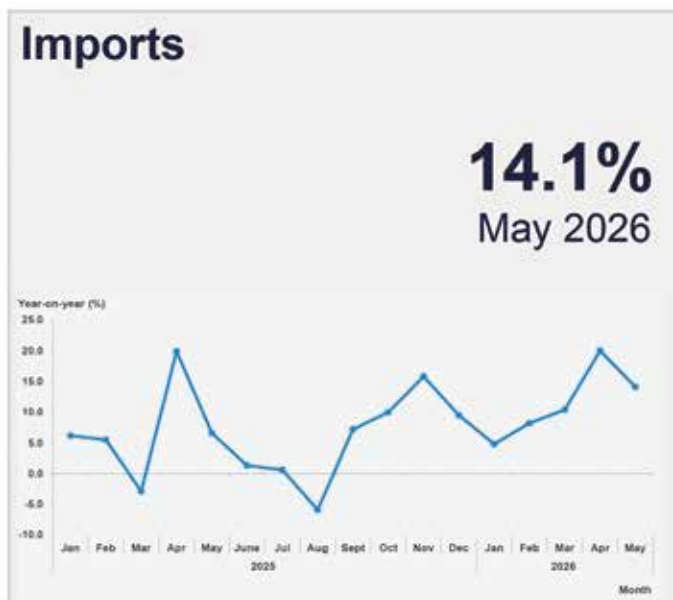
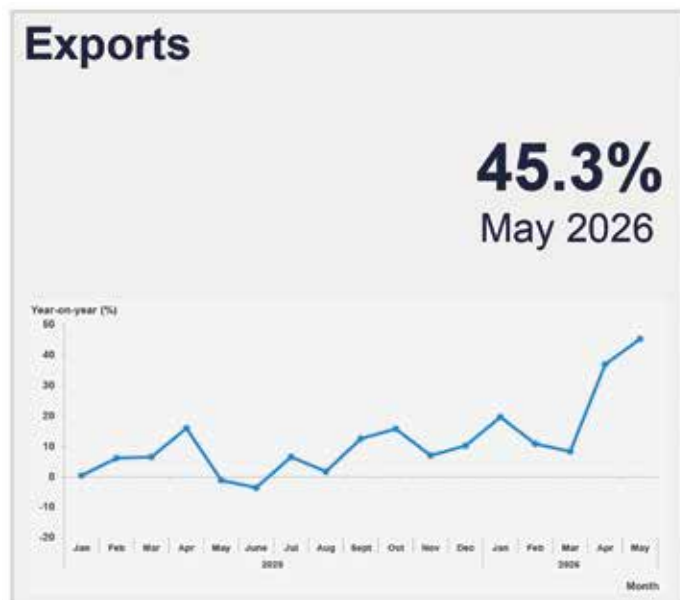
- 1) Unemployment rate is the proportion of unemployed population to the total population in labour force, expressed in percentage.
- 2) The remaining indicators are expressed in year-on-year percentage change



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Note:

- 1) Unemployment rate is the proportion of unemployed population to the total population in labour force, expressed in percentage.
- 2) The remaining indicators are expressed in year-on-year percentage change

World Economy

- According to the World Bank, global growth is forecast to slow to 2.5 per cent in 2026, down from 2.9 per cent in 2025. Growth in Emerging Markets and Developing Economies (EMDE) is expected to slow at 3.6 per cent this year. For all EMDE regions, growth this year is forecast to be weaker than in 2025. If energy supply disruptions are more severe than assumed, global growth could fall to just 1.3 per cent in 2026. Continued trade policy uncertainty, geopolitical tensions and weather-related shocks also pose significant risks.
- US growth in 2025 is projected at 2.1 per cent, followed by 2.2 per cent in 2026. However, tighter monetary conditions, higher consumer energy prices and elevated uncertainty are expected to weigh further on growth throughout the year.
- Growth in the Euro Area is projected at 1.4 per cent in 2025 and is expected to slow to 0.8 per cent in 2026. High energy prices are expected to dampen

consumption and investment, impacting the Euro Area more than some other advanced economies, reflecting its reliance on energy imports.

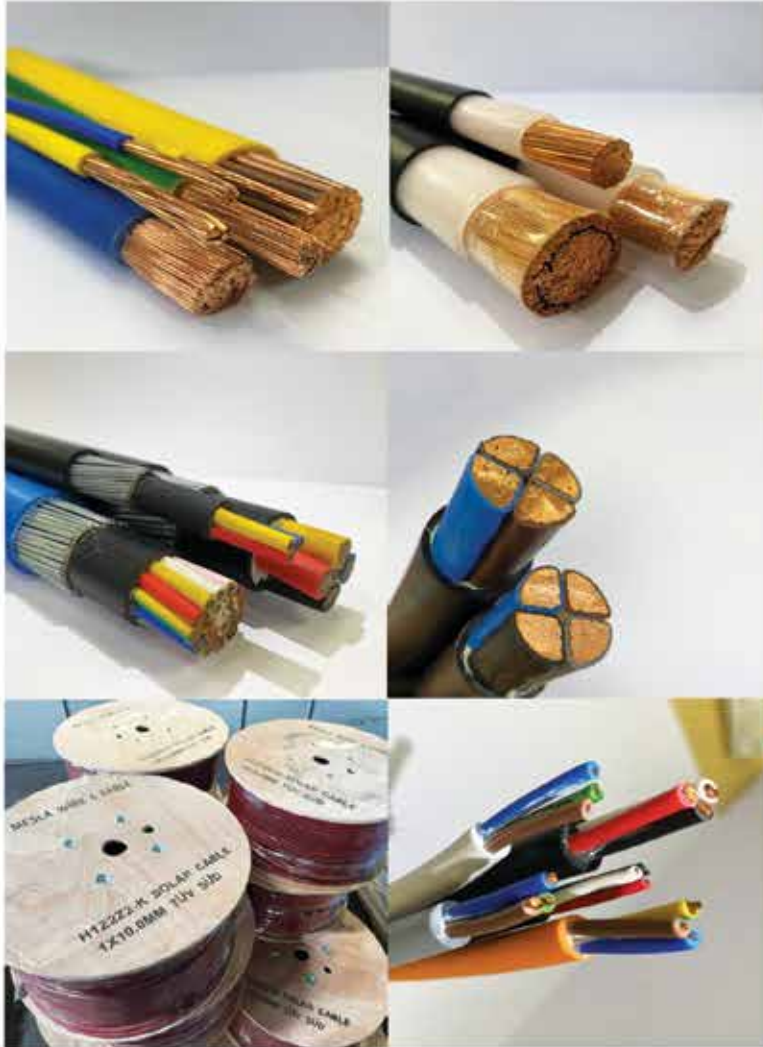
Table 1: GDP Growth for Seleted Country, 2024 - 2028

Area	2024	2025	2026	2027	2028
World	2.9	2.9	2.5	2.8	2.8
Advanced Economies	1.8	1.8	1.5	1.8	1.7
United States	2.8	2.1	2.2	2.1	2.0
Euro Area	1.0	1.4	0.8	1.3	1.3
Japan	-0.2	1.1	0.7	0.9	0.8
Emerging Markets and Developing Economies (EMDE)	4.4	4.4	3.6	4.2	4.1
East Asia and Pacific	5.0	5.0	4.2	4.4	4.3
China	5.0	5.0	4.2	4.3	4.2
Europe and Central Asia	3.9	2.5	2.1	2.3	2.8
Russian Federation	4.9	1.0	0.8	0.7	0.7
Latin America and the Caribbean	2.3	2.3	2.2	2.5	2.6
Brazil	3.4	2.3	1.9	2.0	2.2
Middle East	2.9	4.0	1.6	5.0	4.0
Egypt	2.4	4.4	4.6	4.0	4.6
Saudi Arabia	2.6	4.5	3.1	4.9	3.7
South Asia	6.8	7.0	6.3	6.9	7.1
India	7.1	7.7	6.6	7.2	7.0

Source: World Bank Group, Global Economic Prospect, June 2026

Malaysia's Economy

- Malaysia's economy increased 5.2 per cent in 2025, maintaining the same growth in the preceding year. The performance was contributed by positive growth in all sectors, mainly the Services and Manufacturing sectors, which accounted for 82.5 per cent of the total



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Old Colour Code	Single Phase	Three Phase
Phase Conductor (Line)	Red	Line 1 - Red
	Yellow	Line 2 - Yellow
	Blue	Line 3 - Blue
Neutral Conductor	Black	
Protective Conductor (Earth)	Green and Yellow	



New Colour Code	Single Phase	Three Phase
Phase Conductor (Line)	Brown	Line 1 - Brown
		Line 2 - Black
		Line 3 - Grey
Neutral Conductor	Blue	
Protective Conductor (Earth)	Green and Yellow	



GDP. Malaysia's GDP at current prices amounted to RM2.03 trillion and RM1.74 trillion at constant prices for the year 2025.

- In the first quarter of 2026, Malaysia's economic performance expanded 5.4 per cent reflecting a moderation from the elevated 6.2 per cent growth in the fourth quarter of 2025. The expansion was supported by steady performance on the supply side, notably in the Services, Manufacturing and Construction sectors. The Services sector grew by 5.6 per cent (Q4 2025: 6.2%) in the first quarter of 2026, mainly driven by the Wholesale & Retail Trade and Information & Communications sub-sectors. The Manufacturing sector rose by 5.9 per cent in the first quarter of 2026, as against 6.0 per cent in the preceding quarter, led by the Electrical, Electronics & Optical products as well as Vegetable and Animal Oils & Fats and Food Processing sub-sectors.

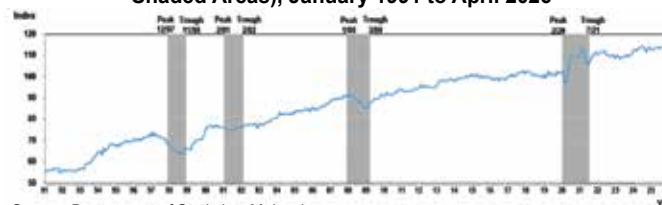
- The Malaysian Economic Indicators for April 2026 demonstrated an improved performance with the Leading Index (LI) registering 1.29 per cent to 115.0 points compared to 113.5 points in the same month of the previous year. This increase was driven by the positive performance of several components, particularly the Number of Housing Units Approved (35.5%). However, the incline was tempered by declines in three other components, and resulted in affecting the overall growth momentum. On a monthly basis, the LI increased by 1.25 per cent in April 2026, supported by the Number of New Companies Registered and the Real Imports of Semi-Conductors, each contributing 0.9 per cent, in line with the development of technology-based economic activities and sustained demand for the Electrical and Electronics sector. Looking at the smoothed long-term trend in April 2026, the LI remained below 100.0 points, reflecting an optimistic economic growth outlook amid ongoing global uncertainties. Nevertheless, continued investment activities as well as demand related to Digital Technology and Data Centres are expected to remain as catalyst for the country's economic growth.

Table 2: Annual Percentage Change (%) of Malaysia's GDP by Kind of Economic Activity, 2024 – 2025 and Q1 2024 – Q1 2026

Kind of Economy Activity	2024	2025	2024				2025				2026
			Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
Services	5.4	5.4	4.8	5.9	5.2	5.5	5.1	5.1	5.3	6.2	5.6
Manufacturing	4.2	4.5	2.1	4.7	5.6	4.2	4.2	3.7	4.1	6.0	5.9
Mining & Quarrying	17.6	12.2	4.3	2.7	-2.8	-0.7	14.2	12.1	11.7	10.9	7.7
Agriculture	3.4	2.2	1.9	7.6	3.6	-0.7	0.7	2.5	0.2	5.7	2.6
Construction	1.2	0.6	11.9	17.2	20.0	20.7	-2.6	-5.2	9.4	1.4	-2.1
GDP at Purchasers' Prices	5.4	5.4	4.2	5.9	5.4	4.9	4.4	4.6	5.3	6.2	5.4

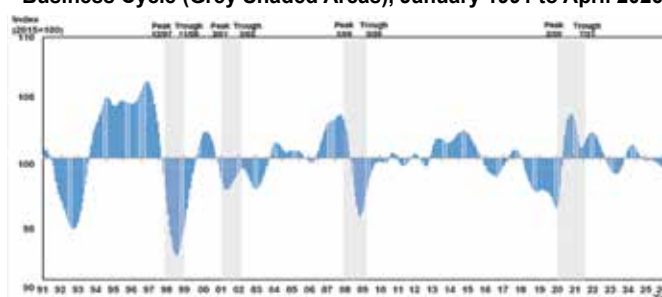
Source: Department of Statistics, Malaysia

Chart 1: Leading Index (2015=100) and Business Cycle (Grey Shaded Areas), January 1991 to April 2026



Source: Department of Statistics, Malaysia

Chart 2: Leading Composite Index (Long Term Trend = 100) and Business Cycle (Grey Shaded Areas), January 1991 to April 2026



Source: Department of Statistics, Malaysia

The full publication of the MESR Volume 6/2026 can be downloaded from the DOSM website at www.dosm.gov.my

Acknowledgement

Source:

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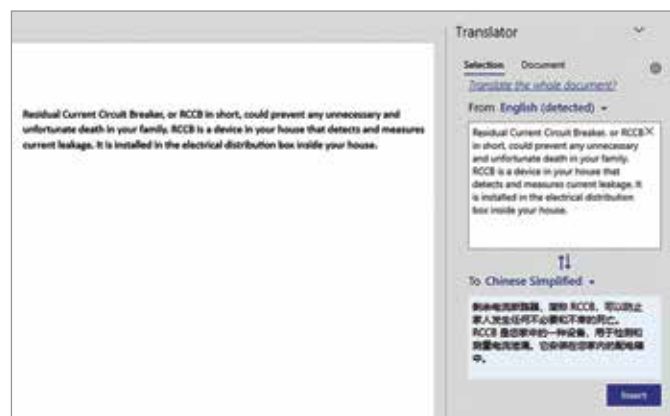
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(Photo Source: Print screen from Microsoft Word)

This same principle of finding the translation tool under the "Review" or "Tools" tab often applies to other office suite applications, including software for spreadsheets (Excel) and presentations (PowerPoint), enabling cross-platform consistency for your translation needs. While these tools are excellent for quick understanding and general content, they are not a substitute for professional human translation, especially when dealing with specialised fields.

Note: Always be cautious with highly technical terms, industry-specific jargon, or legal language. It is strongly advised to cross-reference machine translations for accuracy. For instance, if you are translating a product manual, verify the machine translation against the

manufacturer's official catalog or website to ensure the terminology is correct and consistent. This due diligence prevents costly errors and miscommunication.

The Versatility of Web Translation Tools

Beyond your desktop software, there are incredibly powerful, free, and easy-to-access online resources. Google Translate is a prime example (accessible at <https://translate.google.com>).



(Photo Source: Image from <https://translate.google.com/?sl=en&tl=zh-CN&op=images>)

The true advantage of a modern web service like Google Translate is its versatility. It's not limited to text input alone; it can significantly boost your productivity by handling diverse media types:

- **Text:** Instantaneous translation of up to 5,000 characters.
- **Documents:** Upload and translate entire documents while preserving the original formatting.
- **Images:** Use the image translation feature to upload a picture containing text (like a sign, a menu, or a screenshot) and receive a translation overlaid directly on the image. This is a game-changer for visual data.

Example case: You can insert an image or photo into the translator and instantly see the result overlaid on the original picture, which is a game-changer for visual data.



(Photo Source: Image from <https://www.testrcb.my/how-to-perform-a-self-test-on-rcb.html>)



(Photo Source: Print screen from <https://translate.google.com/?sl=en&tl=zh-CN&op=images>)

By integrating these simple, readily available tools whether it's the built-in function of your favorite word processor or the multifaceted power of an online service, you can dramatically improve your ability to process information and communicate across languages, making translation a seamless part of your daily workflow!

Author WK Chow

General Manager, Zofar Mechanical & Electrical Engineering Sdn Bhd.

Council Member, TEEAM 2025-2027.

Chairperson, Industry & Standards Sub-Committee, TEEAM 2025-2027.

Member, Digitalisation & Media Sub-Committee, TEEAM 2025-2027.





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TEEAM Academic Excellence Awards 2025

TEEAM proudly presented its Academic Excellence Awards 2025 in conjunction with its 74th Annual General Meeting (AGM), held at Tropicana Golf & Country Club on 24 May 2026. The award presentation ceremony was one of the highlights of the event, reflecting TEEAM's enduring commitment to recognising academic achievement and encouraging educational excellence amongst the younger generation.

The Academic Excellence Awards serve as a meaningful platform to honour the outstanding accomplishments of the children of TEEAM members and the children of employees of member companies. By celebrating their sterling successes, TEEAM acknowledges not only the hard work and dedication of the students, but also the invaluable support and encouragement provided by their parents, families, and educators throughout their academic journeys.

This year, the Awards recognised students who had achieved exceptional results in major national and international examinations, including the Sijil Pelajaran Malaysia (SPM), the International General Certificate of Secondary Education Ordinary Level (IGCSE O-Level), and the Cambridge A-Level examinations. These outstanding achievements reflect the students' perseverance, discipline, and commitment to excellence in an increasingly competitive academic environment.

A total of 11 deserving students were presented with Certificates of Excellence and cash awards in recognition of their exemplary academic performance. The recipients represented a diverse group of high achievers who demonstrated outstanding results and set commendable examples for their peers.

Beyond recognising academic success, the Awards underscore TEEAM's firm belief in the importance of investing in future generations. As Malaysia continues its journey towards becoming a high-value, knowledge-driven economy, nurturing talented and capable young minds remains highly essential. Through praiseworthy initiatives such as the Academic Excellence Awards, TEEAM hopes to inspire students to pursue their aspirations with confidence, embrace lifelong learning, and contribute meaningfully to society and the nation.

TEEAM extends its heartfelt congratulations to all award recipients and their families on this well-deserved recognition. The Association wishes them continued success in their future studies and endeavours, and looks forward to seeing them emerge as stellar future leaders, innovators, and professionals who will proactively contribute to the advancement of Malaysia and beyond. Kudos!



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EOCR DSP-SS1
(Current, 2CT)

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DSP-2SD
(Current, 2CT)

Over Current, Phase Loss.

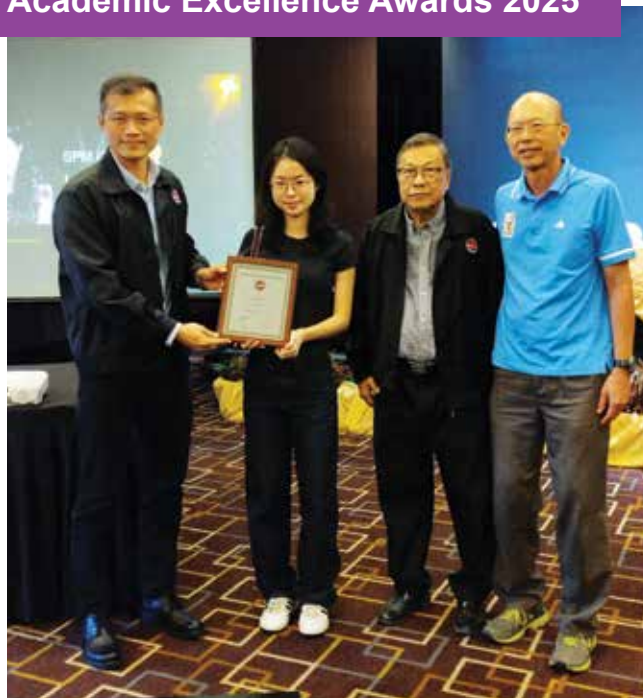


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Snapshots of TEEAM Academic Excellence Awards 2025





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Challenges and Opportunities in the Electrical Industry – Part 50

Ir Chew Shee Fuee KMN, TEEAM Past President

1) Prime Minister Officiates TNB's ETCon26, Reinforces Malaysia's Commitment Towards a Sustainable and AI-READY Energy Future

The Tenaga Nasional Berhad's (TNB) Energy Transition Conference 2026 (ETCon26) marked a significant milestone as Yang Amat Berhormat (The Right Honorable) Prime Minister, Dato' Seri Utama Anwar Ibrahim, officially launched the Conference, reaffirming Malaysia's commitment towards advancing a sustainable, resilient and future-ready energy ecosystem.

Building on the momentum of the inaugural conference held in 2023, which marked the launch of the National Energy Transition Roadmap (NETR) by the Prime Minister, ETCon26 highlighted the importance of advancing energy transition in tandem with economic growth, technological innovation and regional collaboration to ensure long-term national competitiveness and sustainable development.

The Conference also underscored Malaysia's continued progress in expanding renewable energy capacity, with TNB playing a pivotal role in advancing the NETR aspirations through contributions in large-scale solar development and continued investments in modernising the National Grid through incorporation of digital technologies.

The next phase of the energy industry will be shaped by digitalisation and the rapid expansion of AI-driven industries, driving continued growth in electricity demand. Emerging load segments, particularly data centres, require stable and low-carbon electricity supply, with TNB currently supporting 36 operational data centres with electricity supply capacity of approximately 4.5GW.

Against this backdrop, Malaysia remains steadfast in its proactive

commitment to increase renewable energy capacity to 70% by 2050 or earlier, supporting the growth of an AI-driven economy while accelerating decarbonisation efforts under the NETR.

2) The AI Model is a Five-Layer Cake

According to Mr. Jensen Huang, Nvidia CEO, the AI model is a five-layer cake.

From the bottom, the first layer is Energy. This means a greater need for electrical power generation.

The second layer is the Chips and Computing Infrastructure.

The third is Cloud Data Centre Infrastructure.

The fourth is AI Models.

The fifth is Applications.

Therefore, the electrical industry has to be vibrant to cater for the first, second and third layers. Large scale Solar PV and BESS (Battery Energy Storage System) will undoubtedly be relevant to the energy layer requirements.

3) Hybrid Hydro Floating Solar (HHFS)

TNB has found the potential to develop HHFS at their Hydro Power Stations.

3.1) Kenyir Hydro Power Station has a reservoir of over 37,000 hectares with a generation potential of up to 1,000 MW of floating AC Solar power.

3.2) Temenggor Hydro Power Station has a reservoir of over 15,200 hectares with a generation potential of up to 400 MW of floating AC Solar power.

3.3) Nenggiri Hydro Power Station has a reservoir of over 5,384 hectares with a generation potential of up to 780 MW of floating AC Solar power.

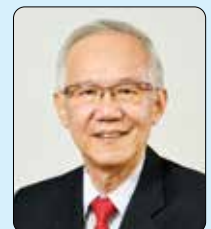
3.4) Chenderoh Hydro Power Station has a reservoir of over 2,500 hectares with a generation potential of up to 70 MW of floating AC Solar power.

The sudden and quick demand for Data Centres and their power requirement can be met adequately. The many Data Centres will keep the electrical contracting business busy for a while. The ever-growing warehouses will also keep them busy. The outlook for the electrical industry is still promising!

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

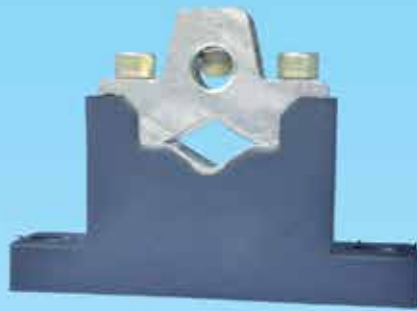
Ir. Chew was President of The Electrical and Electronics Association of Malaysia (TEEAM) from 2001-2005 and 2013-2017. He was the President of the ASEAN Federation of Electrical Engineering Contractors (AFEEC) for 2016-2018. He is a Past Chairman of The Institution of Engineering & Technology (IET) Malaysia Local Network. Ir. Chew is currently the Managing Director of G H Liew Engineering (1990) Sdn Bhd and Chris Chew Electrical Consultant. He graduated from the University of Strathclyde, Glasgow with a B Sc (Hons) in Electrical & Electronics Engineering. He is a Professional Engineer and is also licensed by the Energy Commission (Suruhanjaya Tenaga, ST) 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 40 years of industry experience in electrical control and relay protection. He is also specialised in electrical site tests on power equipment, electrical fault investigation, plus service and maintenance of electrical switchgears and relays. His work also includes electrical supervision of sub-stations and electrical audit. He also presents lectures on electrical apparatus and the protection system. He can be reached at E-mail: sfchew@ghliew1990.com



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Multi Range Line Tap



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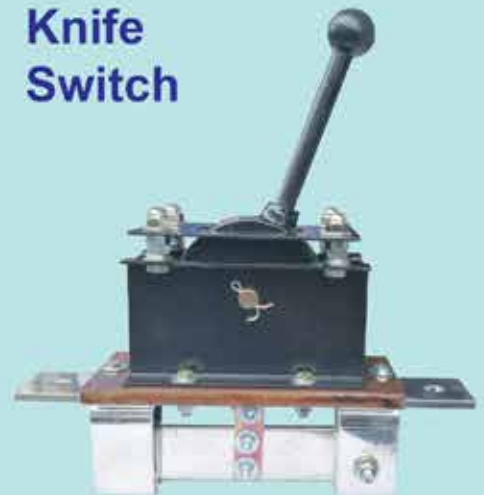


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Confidence in Airflow: HVLS Fans with AMCA Certification

Wynnston Lim & WK Chow

In today's industrial and commercial spaces, keeping people comfortable while managing energy costs is a constant challenge. High Volume Low Speed (HVLS) fans have become a trusted solution, moving large volumes of air gently and efficiently. But with so many products available, how can you be sure the performance claims are real?

That's where Air Movement and Control Association (AMCA) certification makes the difference. AMCA is the global authority that sets strict standards for fan performance. When a fan is AMCA-certified, it means the product has been independently tested and verified — giving engineers, facility managers, and business owners confidence that the airflow, efficiency, and sound levels are exactly as promised.

Why AMCA Certification Matters

AMCA certification isn't just a label; it's a guarantee. It ensures that the numbers you see in a product brochure are backed by rigorous laboratory testing and ongoing compliance audits. For consultants and engineers, this distinction is critical when specifying fans for projects where performance, safety, and efficiency cannot be compromised.

- **Verified Performance:** Airflow and efficiency data are independently validated.
- **Energy Efficiency:** Certified HVLS fans help reduce cooling costs by supporting Heating, Ventilation, and Air Conditioning (HVAC) systems.
- **Quiet Operation:** Tested sound levels ensure comfort in workplaces, gyms, and public spaces.
- **Global Recognition:** AMCA certification is respected worldwide, making it a trusted benchmark.

Membership vs. Certification: Clearing the Misconception

A common misconception in the industry is that if a company is an AMCA member, all its products must be AMCA certified. That's not true.

- **AMCA Membership** means a company supports the association's mission, participates in committees, and stays informed on industry standards.
- **AMCA Certification** means a specific product has been tested, verified, and listed in AMCA's Certified Ratings Programme (CRP).

Membership shows commitment to the industry. Certification shows commitment to product quality. For specifiers in Malaysia, this distinction is crucial when choosing fans for high-performance projects.

Applications That Matter in Malaysia

Malaysia's hot and humid climate makes airflow management essential across industries. Certified HVLS fans deliver measurable benefits in:

- **Factories & Plants:** Reducing heat stress and improving worker comfort.
- **Warehouses & Logistics Hubs:** Maintaining consistent airflow across large spaces.
- **Commercial Spaces:** Quiet, efficient circulation in malls, gyms, and event halls.
- **Agriculture:** Better air quality for livestock and crop storage facilities.

BAF: Certified Where It Counts

Big Ass Fans (BAF) stands out not only for bold branding but for its commitment to compliance and performance. In Asia, BAF offers a range of AMCA-certified HVLS fans, including:

- **Powerfoil X 4.0**
- **Powerfoil X 4.0 Plus**
- **Powerfoil 6**
- **Essence Large Diameter Ceiling Fan**
- **Powerfoil D**

These products have been tested under AMCA standards, giving engineers and facility managers confidence in airflow accuracy, energy efficiency, and durability.

Final Thought

In Malaysia and across the region, climate control and ventilation are mission critical. AMCA certification is your assurance of performance. Membership shows a company's commitment to the industry — but certification shows a product's commitment to quality.

So next time you're specifying a fan, don't just ask *who made it*. Ask *who verified it*. With AMCA-certified BAF HVLS fans, you can be confident that the airflow you're promised is the airflow you'll get.

Co-Authors
Wynnston Lim
Big Ass Fans

WK Chow
General Manager, Zofar Mechanical & Electrical Engineering Sdn Bhd.
Council Member, TEEAM 2025-2027.
Chairperson, Industry & Standards Sub-Committee, TEEAM 2025-2027.
Member, Digitalisation & Media Sub-Committee, TEEAM 2025-2027.



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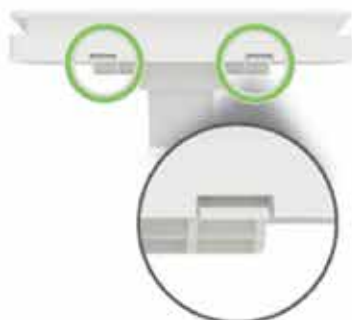


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Digital Brain, Physical Action: How AI Will Reshape the E&E Industry

Connecting intelligence, machines, energy systems and infrastructure for the next phase of industrial growth

Ir. Ts. Prof. Dr. Tan Chee Fai

Artificial Intelligence (AI) is entering a new phase. In the past, AI was often associated with software, data analytics, automation tools, chatbots and digital platforms. Today, AI is moving beyond the digital environment and entering the physical world such as into factories, buildings, energy systems, machines, robots, electrical infrastructure, sensors, control panels and industrial equipment.

This development is especially important for the electrical and electronics (E&E) industry. For members of The Electrical and Electronics Association of Malaysia (TEEAM), AI should not be viewed as a distant technology belonging only to software companies. Instead, AI represents a major opportunity for the E&E sector to move up the value chain, create new business models and deliver higher-value solutions to customers.

The future of AI can be understood through a simple phrase: **Digital Brain, Physical Action.**

The “digital brain” refers to AI’s ability to analyse data, detect patterns, predict outcomes, support decision-making and optimise performance. The “physical action” refers to how AI is applied to real-world systems such as machines, devices, robots, buildings, electrical networks, manufacturing lines and infrastructure.

When the digital brain is connected to physical action, AI becomes truly powerful.

From Digital AI to Physical AI

Digital AI operates mainly in the digital space. It can analyse energy consumption, predict equipment failure, generate reports, optimise schedules, identify defects from images and support business decisions. Many companies are already exploring digital AI through dashboards, analytics tools, enterprise systems and cloud platforms.

Physical AI goes one step further. It connects intelligence to physical assets. It enables machines, systems and devices to sense, decide and act. This includes AI-enabled robots, autonomous mobile robots, smart sensors, intelligent control systems, predictive maintenance platforms, smart building systems, AI cameras, digital twins and energy optimisation systems.

For the E&E industry, the convergence of Digital AI and Physical AI is highly significant. Every intelligent physical system requires electrical power, electronics, sensors, control devices, communication networks, data infrastructure, safety systems, installation, commissioning and maintenance.

This means the E&E sector is not just a user of AI. It is a critical enabler of the AI economy.



Why the E&E Industry Must Pay Attention

The E&E industry has always played a foundational role in industrial and economic development. From power distribution to automation, from electronic components to control systems, from building services to manufacturing equipment, the E&E sector provides the essential backbone for modern industry.

However, customers are now expecting more than reliable equipment and proper installation. They want smarter systems that can reduce cost, improve productivity, save energy, reduce downtime, enhance safety and support sustainability goals.

Building owners do not only want a building management system. They want lower energy bills, better comfort, predictive maintenance and carbon reporting.

Building owners do not only want automation. They want better yield, fewer defects, shorter downtime, improved traceability and higher productivity.

Data centre operators do not only want electrical infrastructure. They want power reliability, cooling efficiency, real-time monitoring and intelligent risk management.

Semiconductor manufacturers do not only want machines and facilities. They want precision, stability, uptime, quality control and intelligent process optimisation.

These demands create a new golden opportunity for TEEAM members to reposition themselves from suppliers and contractors into solution(s) providers, system integrators, lifecycle service partners and AI-enabled engineering companies.

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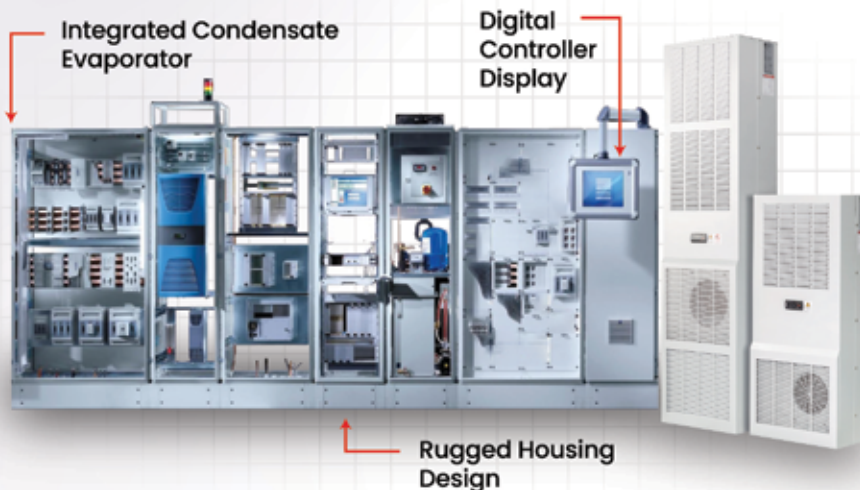
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Key Opportunities for TEEAM Members

One major opportunity is **AI energy optimisation**. Buildings, factories, malls, hospitals, convention centres and data centres consume significant amounts of electricity. AI can analyse energy usage patterns, equipment performance, weather conditions, occupancy levels and operating schedules to recommend the best way to reduce energy consumption. This creates measurable value because energy savings can be tracked and verified.

Another opportunity is **predictive maintenance**. Electrical and mechanical assets such as motors, pumps, transformers, switchgear, cables, panels, UPS systems, chillers, compressors and production machines generate useful data. By using sensors, power quality monitoring, thermal imaging, vibration analysis and AI analytics, companies can detect early signs of failure before breakdown occurs. This reduces downtime and improves reliability.

A third opportunity is **smart manufacturing**. In the E&E manufacturing sector, AI can support machine vision inspection, defect detection, production planning, process optimisation, robotic handling, quality control and traceability. As Malaysia continues to strengthen its role in the global electronics and semiconductor value chain, intelligent manufacturing will become an important competitive advantage.

A fourth opportunity is **AI-enabled building management systems**. Traditional BMS platforms are mainly used for monitoring and control. The next generation of BMS will include AI-based fault detection, energy optimisation, air quality management, predictive maintenance, digital twin visualisation and ESG data reporting. This opens new business areas for electrical contractors, consultants, system integrators and facility management providers.

A fifth opportunity is **robotics and autonomous systems**. Robots, drones, autonomous mobile robots, automated warehouses and intelligent inspection systems all require strong E&E support. They depend on power systems, sensors, controllers, batteries, drives, embedded electronics, communication systems and safety infrastructure.



A sixth opportunity is **carbon footprint and ESG reporting systems**. Many companies are under increasing pressure to measure, manage and report environmental performance. Electrical data is one of the most important inputs for carbon accounting. Energy consumption, renewable energy usage, equipment efficiency and operational patterns can be connected to carbon reporting platforms. This allows E&E companies to support clients in sustainability compliance and ESG transformation.

Edge AI: A New Hardware-Software Opportunity

One of the most important developments for the E&E industry is Edge AI. Instead of sending all data to the cloud, Edge AI processes data near the machine, device or site. This is especially useful where fast response, privacy, reliability or low latency is required.

Examples include AI cameras for quality inspection, smart sensors for machine monitoring, intelligent meters for energy analytics, edge gateways for factories, embedded controllers for equipment optimisation and local AI systems for security or safety monitoring.

Edge AI is important because it brings AI closer to the physical environment. It also creates new demand for hardware, chips, sensors, electronics, industrial gateways, power supplies, communication modules, control systems and cybersecurity solutions.

This is where the E&E industry can play a much bigger role. AI is not only about software. The next phase of AI will require hardware, devices, integration, installation, testing, commissioning and maintenance. These are areas where TEEAM members already have strong experience!

From Project Revenue to Lifecycle Value

Digital and Physical AI will also change the business model of the E&E industry.

Traditionally, many companies operate on a project basis. They supply, install, test, commission and hand over the system. Revenue is mainly earned during the project stage. After completion, the relationship with the client may become limited to maintenance or replacement work.

AI-enabled systems create the possibility of recurring value. Companies can provide remote monitoring, AI dashboard subscription, predictive maintenance service, energy optimisation service, carbon reporting support, system health reports and performance improvement contracts.

This allows E&E companies to move from one-time project revenue to long-term lifecycle revenue.

This shift is strategically important. Traditional supply and installation work can be highly competitive and price-sensitive. However, AI-enabled solutions allow companies to compete based on knowledge, system performance, data insights, reliability and measurable outcomes.

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The future will favour companies that can not only install systems, but also continuously improve them.

Skills Needed for the AI Era

To capture the opportunities of Digital and Physical AI, the industry must invest in capability building.

E&E professionals do not all need to become AI programmers. However, they need to become AI-ready. They need to understand how data is collected, how sensors are selected, how equipment is connected, how dashboards are designed, how cybersecurity risks are managed, how AI recommendations are validated and how return on investment is demonstrated to clients.

Important skill areas include electrical systems, electronics, automation, instrumentation, data analytics, AI fundamentals, industrial communication, cloud platforms, edge computing, cybersecurity, safety standards, ESG reporting and business model innovation.

This is where industry associations such as TEEAM can play a critical role. TEEAM can support members through awareness programmes, technical seminars, certification courses, industry guidelines, demonstration projects, collaboration platforms and partnerships with universities, technology providers and Government agencies.

Start with Practical Use Cases

For companies that are new to AI, the best approach is to start with practical and measurable use cases.

Energy saving is a good starting point because cost reduction can be measured. Predictive maintenance is another good starting point because downtime reduction is valuable to customers. Quality inspection is useful for manufacturing companies because defect reduction can improve productivity. Carbon reporting is increasingly important because companies need reliable data for ESG compliance.

The key is not to start with technology for the sake of technology. The key is to start with business problems.

- > What cost can be reduced?
- > What downtime can be prevented?
- > What process can be improved?
- > What data can be captured?
- > What decision can be made faster?
- > What value can be measured?

When AI is linked to business value, adoption becomes more practical and sustainable.

Malaysia's Strategic Opportunity

Malaysia has a strong E&E foundation. The country is an important player in electronics manufacturing, semiconductor supply chains, electrical services, industrial automation and engineering solutions. At the same time, Malaysia is moving towards digital economy, energy transition, smart manufacturing and sustainability.

Digital and Physical AI sit at the intersection of these national priorities. For Malaysia to move up the value chain, the E&E sector must not only participate in manufacturing and installation, but also in intelligent systems, AI-enabled products, smart buildings, robotics, energy intelligence, industrial automation and high-value engineering services.

TEEAM members are well positioned to lead this transformation. The industry already understands physical systems. It already understands installation, compliance, safety, power, control, maintenance and customer needs. By adding AI capability, the sector can create a new generation of intelligent E&E solutions.

Summary

The future of AI will not be limited to screens, software and cloud platforms. The most powerful impact of AI will happen when intelligence is connected to the physical world.

This is why the idea of **Digital Brain, Physical Action** is so important.

Digital AI provides the brain. Physical systems provide the action. E&E engineering provides the power, connectivity, control, sensing and trusted infrastructure that make everything work.

For TEEAM members, the message is very clear. AI is not a threat to the E&E industry. It is a major growth opportunity.

The companies that act early will be able to move beyond conventional supply and installation. They will become providers of intelligent systems, smart infrastructure, AI-enabled services and lifecycle performance solutions.

The next growth frontier for the E&E industry will be shaped by those who can combine E&E expertise with AI-driven intelligence.

In the AI era, the E&E industry will not only power the world, it will also help make the world more highly intelligent.

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About the Author

Ir. Ts. Prof. Dr Tan Chee Fai is a prominent figure in the engineering and manufacturing sectors, widely recognised for his expertise in digital transformation, smart manufacturing, artificial intelligence, robotics, and industrial innovation. Currently, he is the Deputy Vice-Chancellor of Kuala Lumpur University of Science & Technology (KLUST). As an Asian Certified Senior Productivity Specialist and Exco Member of the Machinery & Engineering Industries Federation (MEIF), he plays an active role in supporting national industry development, productivity enhancement, and policy-level initiatives that strengthen Malaysia's industrial competitiveness.



Prof. Tan is deeply involved in technology advocacy, particularly in promoting the practical adoption of AI, smart manufacturing, robotics, digital transformation, and emerging technologies among engineers, manufacturers, industry leaders, and policymakers. Through his professional platforms, keynote engagements, industry training programmes, and regional initiatives, he actively champions technology awareness, capacity building, responsible AI adoption, and the transformation of engineering professionals for the digital and intelligent economy.

At the regional and international levels, Prof. Tan is a Fellow of the Academy of Engineering & Technology of the Developing World (AETDEW) and a Fellow of the ASEAN Academy of Engineering & Technology (AAET). He is actively engaged in advancing engineering excellence across ASEAN and other developing regions through strategic collaboration, professional capacity building, policy advisory, and cross-border technology cooperation.

Globally, Prof. Tan serves as a Specialist for the ISO/IEC Smart Manufacturing Standards Map Task Force (ISO/IEC SM2TF), contributing to the development of international standards for smart manufacturing systems. He is also a key member of the Big Data & AI Working Group under the World Federation of Engineering Organisations (WFEO), where he supports global initiatives related to responsible AI, emerging technologies, and engineering-led digital transformation.

As a highly sought-after speaker, Prof. Tan has been invited to share insights at leading international platforms, including the World Robot Conference, World Artificial Intelligence Conference, and World Intelligent Manufacturing Conference, among others. He has also served as a UNESCO expert, contributing to engineering education reform and digital capacity-building initiatives in African and APEC economies.

He can be contacted at: cheefaitan@gmail.com

TEEAM Academic Excellence Awards 2026



Applications are now open for the TEEAM Academic Excellence Awards 2026. Children of TEEAM members and/or children of their qualified employees who achieved outstanding results in the following 2025 public examinations are invited to apply:

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For the eligibility criteria and application form, please contact the TEEAM Secretariat at:
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The following new members have been approved and accepted by the TEEAM Council from April - June 2026. 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 value-added services to you and your highly esteemed Companies!

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Muhammad Iskandar Bin Mohd Rodzi No. 22, Jalan Kristal 7/65 Seksyen 7, 40000 Shah Alam, Selangor Darul Ehsan. Tel: +6011-6096 3281 E-mail: rodziiskandar@gmail.com <i>Business: UiTM undergraduate – Bachelor of E&E Engineering.</i>	Y&K Elektrik Sdn Bhd Lot 1273-3, Jalan Bukit Kemuning, Kampung Jawa Batu 8, 42450 Shah Alam, Selangor Darul Ehsan. Tel: +6016-440 7624 E-mail: ykelektirik@gmail.com Contact Person: Mr. Jeevan a/l Munusamy <i>Business: All type of electrical services, sky lift rental and more.</i>
Wong Kwee Sang No. 285, Jalan C7 Taman Melawati, 53100 Kuala Lumpur. Tel: +603-4105 7528 E-mail: kswong@tarc.edu.my <i>Business: Technical assistant (Chargeman BO)</i>	

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	P,Q,PF	0.2	0.5	0.5
	Kwh	0.2S	0.5S	0.5S
	V/A/P/Q/S/PF/Hz	0	0	0
Measurement	Demand	0	0	0
	Max/Min value	0	0	0
	Neutral current	0	-	-
	Bi-directional energy	0	0	0
Energy Metering	4 Quad kVAR energy	0	0	0
	Tariff energy	0	0	-
	THDi/THDv	0	0	0
	Harmonic V/A	up to 63rd	up to 51st	up to 31st
Power Quality	Voltage sag/dip event	0	-	-
	Unbalance	0	0	0
Monitoring	Flicker/Transient	0	-	-
	RS485 (Modbus-RTU)	0	0	0
Communication	Ethernet	Option	-	-
	Digital input	2	4	-
	Relay output	2	3	-
Input/Output	Energy pulse	1	2	-
	Hour Meter	0	-	-
	SOE Record	0	-	-
Data Log	Demand/Min/Max	0	-	-
	Memory	8MB	-	-



Sfere S15 IoT Gateway

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