

An Event Of



POWERING INTELLIGENT CITIES:

DATA, AI AND INFRASTRUCTURE FOR SMART MALAYSIA

**25 SEPT, 2026 (FRIDAY)
HALL 8B
KUALA LUMPUR
CONVENTION CENTRE**

Held Concurrently With:



5TH ENGINEERING EXHIBITION &
CONFERENCE 2026, MALAYSIA

22 - 25 SEPT 2026

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Message from Organising Chairman



**Ir. Mike Lau
Yee Leong**

Dear Ladies and Gentlemen,

The 2026 Symposium represents a critical juncture for Malaysia's urban development. By unifying data analytics, artificial intelligence and robust physical infrastructure, we are not just building cities – we are architecting resilient, intelligence ecosystems for future generations. I welcome you to join this transformative partnership at the KLCC.

Organising Chairman Urban Engineering Symposium (URBENS 2026)
& Chairman of Urban Engineering
Development Special Interest Group (UEDSIG)

Message from UEDSIG Advisor

Achieving a Smart Malaysia demands unprecedented collaboration between engineering vanguards and technological innovators. This symposium is the vitals catalyst for deploying AI-driven planning and next-generation utilities that will redefine our urban lanscape. Your sponsorship align your brand directly with this imperative



**Ir. Benny,
Lau Eng Kee**

Overview of the Urban Engineering Symposium

The Urban Engineering Symposium 2026 focuses on the future of urban engineering. This event aims to explore innovative solutions that shape sustainable urban development

Mission & Vision

Powering Smart Malaysia

The Symposium 2026 serves as the premier nexus for engineering professionals, urban planners, and technology leader to architects the future of intelligent urbanization in Malaysia

Symposium Highlights

1.Digital & Energy Infrastructure for Smart Cities

- Data centres, fibre networks, and cloud platforms
- Power reliability as a smart city enabler

2.AI-Driven Cities: Global Lessons for Malaysia

- AI applications in planning, mobility, and utilities
- International case studies and local readiness

3.Digital Twins & IoT for Real-Time Urban Management

- Real-time monitoring and predictive maintenance
- City operations centres and dashboards

4.Energy Consumption, Sustainability & Net-Zero Cities

- Energy challenges of data centres and digital infrastructure
- Aligning smart city growth with ESG goals

5.Battery Energy Storage Systems (BESS): Enabling Resilient, Low-Carbon Smart Cities

- BESS as a bridge between renewable energy and urban demand
- Supporting data centres, EV charging, and critical services
- Grid stability, microgrids, and islanding capabilities
- Policy and regulatory considerations in Malaysia



Past Event & Highlight URBENS 2025



The Institution of Engineers, Malaysia – Jurutera Bulletin

Urban Engineering Symposium 2025



Ir. Ts. Khaw Yao Shun
Committee member of Urban Engineering Development Special Interest Group (UEDSIG) and Director at Trion Consultancy Sdn. Bhd.



Mr. Wayne Low Yoke Wai
Committee member of UEDSIG and Senior Project Manager at Residen MSE Sdn. Bhd.

In conjunction with the IEM Convention 2025, the Urban Engineering Development Special Interest Group (UEDSIG) organised Urban Engineering Symposium (URBENS) 2025 on 12 September at the KL Convention Centre. The theme was The Future of Urban Engineering: Exploring the Next Frontier in Urban Development.

After the registration of the participants, Organising Chairman Ir. Mike Lau gave a speech highlighting the four sub-themes of the symposium:

1. Integrating ESD/ESG in Urban Development.
2. Balancing Growth and Sustainability.
3. Sustainable Cities as Part of the Future of Urban Engineering.
4. Policy, Planning and Infrastructure of the Future.

The first speaker, Ir. Ts. Assoc. Prof. Dr. Leong Kah Hon (UTAR), spoke on ESG Implementation for Engineering Companies, practical steps for ESG integration, links to global SDGs, and how ESG enhanced compliance and competitiveness.

The second speaker, Y.B. Dato' Kamarul A. Muhamed (Aerodyne Group) presented on The Future of Cities: Where Skies Think & Streets Listen. The Guest of Honour, Y.B. Tuan Nga Kor Ming, Minister of Housing & Local Government, commended IEM for championing urban engineering and acknowledged that urban development was the result of multidisciplinary collaboration.

Digital Content

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<http://bit.ly/4xy4c>



The third speaker, Ir. Chua Ang Tze (BSD Consultancy Sdn. Bhd.), delivered a session titled Beyond Net Zero: Designing the Super Low Energy Buildings of Tomorrow. He shared international case studies, design strategies, and emerging technologies. Then Ir. Noor Izidin Abdullah Haji Ghazali (North Consult Engineering), highlighted the role of project consultants in enabling impactful decision-making and driving sustainable development.

At the first panel discussion, moderated by Ir. Assoc. Prof. Dr. Ling Lloyd of UTAR, the speakers shared perspectives, debated key issues, and engaged freely with the participants.



After lunch, the symposium welcomed the following speakers:

1. Ir. Ts. Harmidi Ali (Majlis Bandaraya Melaka Bersejarah). Introduced I-TRAFIK Melaka, a smart heritage mobility initiative integrating real-time traffic analytics in UNESCO zones.
2. Ts. Muhammad Adli Salihin (Department of Agriculture). Discussed green infrastructure in urban farming, emphasising food security and low-carbon urban economies.
3. Ar. Bee Sui Yeng (PAM Northern Chapter). Presented Penang's sustainability roadmap through Penang2030 and the Penang Energy Framework.

At the second panel discussion, moderated by Ir. Ts. Khaw Yao Shun, Ts. Adli talked about how urban farming could support Penang's sustainability agenda, highlighting the potential for future cross-departmental collaboration between the Department of Agriculture and the Penang State Government.

Finally, Tuan Ir. Ts. Mohd Lokman Mohd Lasim (DBKL) and Ir. Ashwin Thuraijah (GreenRE) delivered talks titled: Case Study: Rectification of Design Flaw in

Dual-Function Underground Stormwater Detention Pond Proposal at Taman SPKK, Segambut, KL, and Renewing & Revitalising Ageing Buildings.

At the third panel discussion, moderated by Assoc. Prof. Dr. Doh Shu Ing of Universiti Malaysia Pahang Al-Sultan Abdullah, Tuan Ir. Ts. Mohd Lokman expressed a strong interest in incorporating GreenRE certification to guide the retrofitting and upgrading of ageing buildings in Kuala Lumpur, to ensure they are more resilient and sustainable.

Key Outcomes of URBENS 2025

URBENS 2025 achieved its objectives through active participation, collaboration, and forward-looking discussions. Key takeaways included:

- Integration of ESG frameworks is now essential in engineering practice and policymaking.
- Technological innovations, including AI-driven infrastructure and smart mobility systems, are fundamental to sustainable urban management.
- Public-private collaboration plays a crucial role in strengthening urban resilience and supporting Malaysia's Net Zero aspirations.

SYMPOSIUM PROGRAM

TIME	PROGRAM, SPEAKERS & TOPICS
8.30 am – 9.00 am :	Registration and Welcome Coffee & Tea
9.00 am - 9.05 am :	Welcome Address by Organising Chairman URBENS 2026 & Chairman of UEDSIG, Ir. Mike Lau Yee Leong
9.05 am – 9.10 am :	Welcome Speech by President of IEM / Representative
9.10 am - 9.20 am :	Opening Remark by Guest of Honour (YB Nga Kor Ming)
9.20 am – 9.25 am :	Token of Appreciation by IEM to Guest of Honour
9.25 am - 9.40 am	Token of Appreciation to Keynote Speaker, Speaker's and Sponsors by the Guest of Honour
TIME	PROGRAM, SPEAKERS & TOPICS
9.40 am - 10.10 am	Speaker 1 : Mr Lim Keow Teck Data Centres as Critical Infrastructure: Standards, Resilience and Powering Intelligent Cities
10.10 am - 10.30 am	<i>Morning Coffee Tea Break</i>
10.30 am - 11.00 am	Speaker 2 : Mr. Vincent Loh Kim Wah Essential Earthing Design for HV Substations and BESS: Meeting the Latest ST Requirements for Intelligent City Energy Infrastructure
11.00 am - 11.30 am	Speaker 3 : Ir. Noor Iziddin Abdullah Ghazali Solar PV & BESS for Commercial & Industrial Campuses: From Energy Cost Reduction to Grid-Ready Resilience
11.30 am - 12.00 pm	Panel Discussion 1: (with speaker 1 - 3) Moderator – Ir. Assoc. Prof. Dr. Lloyd Ling
12.00 pm - 2.00 pm	Exhibition Tour of Engineer 2026 & Lunch Break
Session (2)	Digital Twins & IoT for Real-Time Cities // AI-Driven Cities: Global Lessons for Malaysia
2.00 pm - 2.30 pm	Speaker 4 : TBC
2.30 pm – 3.00 pm	Speaker 5 : TBC
3.00 pm - 3.30 pm	Speaker 6 : Mr. Mahadevan Balasubramaniam
3.30 pm - 4.00 pm	Panel Discussion 2: (with speaker 4 - 6) Moderator – Ts. Alan Poon Mun Cheong
4.00 pm - 4.20 pm	Afternoon Coffee Tea Break
Session (3)	Energy & Sustainability Challenges
4.20 pm - 4.50 pm	Speaker 7 : Mr. Derek Foong Data centre energy consumption vs net-zero goals using innovative control mechanisms
4.50 pm - 5.20 pm	Speaker 8 : Ir. Ashwin Thuraiarajah Renewable integration, district cooling, waste heat reuse sustainability challenges faced by smart cities
5.20 pm – 5.50 pm	Panel Discussion 3 : (with speaker 7- 8) Moderator – Ir. Ts. Steve Khaw Yao Shun
5.50 pm – 6.10 pm	Token of Appreciation for Afternoon Speakers and Sponsors (for speaker & sponsor who are unable to received token at the morning session)
6.10 pm - 6.20 pm	Closing Remarks by Ir. Mike Lau Yee Leong Organising Chairman URBENS 2026 & Chairman of UEDSIG Session 2025 - 2026

Sponsorship Packages Overview

	(PLEASE TICK "✓") (all fees to add SST 8%)			
A) Booth Package	Platinum	Gold	Silver	Bronze
TYPE OF BOOTH SPONSORSHIP				
	RM25,000.00	RM20,000.00	RM17,000.00	RM15,000.00
Company Corporate Logo will be Displayed Throughout the Symposium & Exhibition Promotional Flyers & Advertisement	✓	✓	✓	✓
Corporate Promotional Material to be Inserted in Goodie Bags (1 item)	✓	✓	✓	✓
Company Logo on Digital Backdrop	✓	✓	✓	✓
Acknowledgement of the Company During Symposium & Exhibition Opening Ceremony	✓	✓	✓	✓
Acknowledgement in Symposium Booklet (name of company)	✓	✓	✓	✓
Complimentary Symposium Passes	10	7	5	3
Token and Certificate of Appreciation	✓	✓	✓	✓
1x Virtual Talk Session (under IEM)	✓	✓	✓	-
Table Top Display and Banners Package (inside the Conference Hall)	✓	✓	✓	✓
Exhibition Booth				
Number of promotional exhibition booth which will be allocated (3m x 3m)				
1 unit of 3m x 3m Shell Scheme Stand at ENGINEER 2026 (each stand is complete with white melamine dividing panels/ partition, 1 set of company name on fascia board, needle punch carpet, 1 information desk & 2 chairs, 2 units spot light, 1 unit 13 Amp power point, 1 unit waste paper basket)				

Sponsorship Packages Overview

Table Top Display & Banner Package

Limited to 6 Exclusive Tables Only (All fees are subject to 8% SST)

		Amount (RM)	Complimentary Seat	Acknowledgement in the Conference Booklet	Please tick "✓"
1	Table top area inside the Conference Hall and not at the IEM Convention Exhibition area (Engineer 2026 Exhibition) Display on 25 September 2026	6,000.00	3	✓	

C) Advertisement Package (all fees to add SST 8%)

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1	Inside front Cover	6,000.00	3	✓	
2	Outside Back Cover	6,000.00	3	✓	
3	Inside Back Cover	4,500.00	2	✓	
4	Run of Page (inside page)	2,500.00	1	✓	

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		ONLINE (NON HRDF Claimable) (Log-in for registration & payment: via IEM PORTAL	NORMAL FEE (HRDF Claimable) (By Email : Quotation & Invoice)
1	Student Member	350.00	Not Available
2	Graduate Member	350.00	450.00
3	Corporate Member	500.00	570.00
4	Non-IEM Member	550.00	670.00
Below Registration is STRICTLY by via EMAIL CORRESPONDENCE ONLY			
5	Group Registration (03 – 10 participants)	5% Discount	Not Available
6	Group Registration (11 participants & above)	7% Discount	Not Available
7	AFO Members	600.00	

Participant Registration form

Email: suriani@iem.org.my / parimala@iem.org.my

Tel: 03-7890 0134 (Direct Line)

No	Name(s)	IEM membership No.	NRIC / Passport No	Fee (RM)
ALL FEES TO ADD (+ SST 8%)				
TOTAL PAYABLE				

PAYMENT DETAILS :

☐

Cash RM _____

☐

Cheque no. _____ for the amount of RM _____ (non-refundable)
and made payable to "THE INSTITUTION OF ENGINEERS, MALAYSIA" and crossed 'A/C Payee Only'.

FULL PAYMENT must be settled before commencement of the seminar, otherwise participants will not be allowed to enter the hall. If a place is reserved and the intended participant fails to attend the course, the fee is to be settled in full. If the participant failed to attend the course, the fee paid is non refundable. The Registration Fee includes lecture notes, refreshment and lunch (whichever available).

For **ONLINE REGISTRATIONS**, please note that payment **MUST** be made **BEFORE** the closing date. If payment is not received within the stipulated time, the registration fee will be reverted to the normal registration fee.

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- FULL PAYMENT must be settled before commencement of the course, otherwise participants will not be allowed to enter the hall. If a place is reserved and the intended participants fail to attend the course, the fee is to be settled in full. If the participant failed to attend the course, the fee paid is non refundable. Registration fee includes lecture notes, refreshment.
- The Organizing Committee reserves the right to cancel, alter, or change the program due to unforeseen circumstances. Every effort will be made to inform the registered participants of any changes. In view of the limited places available, intending participants are advised to send their registrations as early as possible to avoid disappointment.

Cancellation Policy

No cancellation will be accepted prior to the date of the event. However, replacement or substitute may be made at any time with 7 days prior notification and substitute will be charged according to membership status.

Personal Data Protection Act

I have read and understood the IEM's Personal Data Protection Notice published in IEM's website at <http://www.myiem.org.my> and I agree to IEM's use and agree to IEM's use and processing of my personal data as set out in the said notice.