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## ICE MALAYSIA 2024 Conference

Delivering Sustainable and Resilient Infrastructures -  
Engineers' Responsibilities to Act

**Tuesday December 3rd 2024, 8:00 AM – 5:30 PM**

Venue: Grand Ballroom, Le Meridien, Petaling Jaya

[www.icemalaysiaconference2024.com](http://www.icemalaysiaconference2024.com)

✉ [icemconference@icemalaysia.org.my](mailto:icemconference@icemalaysia.org.my)

# ICE Malaysia 2024 Conference

## Engineers Responsibilities to Act

### CONFERENCE'S THEME

Reaching net zero emissions by 2050 will require some big changes to limit global warming to 1.5C above preindustrial level. The pathway is narrow, and our energy systems will need to be totally transformed and require massive decreases in the use of coal, oil and gas. ICE aims to provide our engineering community with the information needed to understand the net zero challenge, and to meaningfully contribute to improving resilience and adaptation in infrastructure systems. As engineers, our responsibility to act is clear, how do civil engineers help with transition to a net zero future and integrate sustainability and climate resilience into our core business strategy, including cross collaboration between sectors and geographies, leveraging on technology for holistic and transparent management of sustainability implementation, overcoming funding barriers for green solutions, investing in future professional skill sets required to deliver the a Sustainable and Resilient Infrastructure that has integrated climate adaptation, avoiding greenwashing & implement nature-based solutions.

### OPENING ADDRESS



**YB Nik Nazmi bin Nik Ahmad**  
Minister of Natural Resources and  
Environmental Sustainability

### DISTINGUISHED SPEAKER



**Mark Hansford**  
Director of Engineering Knowledge  
Institute of Civil Engineer UK



**Dr. Gary Theseira**  
Director  
Climate Governance Malaysia



**Ir Ashwin Thurairajah**  
Executive Director  
Green RE



**Paul Edwards**  
Global ESG Lead  
TSA Riley



**Dr Yasmin Rasyid**  
Head of Sustainability  
Sime Darby Property



**Dr Bala Gurusamy**  
Marketing Director, Environment &  
Sustainability - Asia  
Aurecon



**Ms Linza Wells**  
Executive Director  
MDS Consultancy Group

### CLOSING SPEECH



**Ir Dr Tony Chan**  
ICE Malaysia Country Representative  
Chief Executive Officer  
WCT Holdings Bhd.



**Ir Gandhi Suppiah**  
ICE Malayisa President  
Regional Director and Principal for  
South East Asia, TSA Riley

## CONFERENCE PROGRAMME

|                     |  |
|---------------------|--|
| 8:00 am - 9:00 am   | Registration & Welcome Reception   |
| 09:00 am - 09:15 am | <b>Keynote Address</b><br><b>YB Nik Nazmi Nik Ahmad</b><br>The Minister of Natural Resources and Environmental Sustainability  |
| 09:15 am - 09:45 am | <b>Panel Discussion</b><br>Topic: TBC<br>Panelist: YB Nik Nazmi Nik Ahmad, TBC, TBC<br>Moderator: Gandhi Suppiah   |
| 09:45 am - 10:00 am | <b>Photos and Presentations with YB Nik Nazmi Nik Ahmad</b>  |
| 10:00pm - 10:30pm   | <b>Mark Hansford</b> , Director of Engineering Knowledge, Institution of Civil Engineers, UK<br>PAS 2080: Carbon Management in Buildings & Infrastructure                                    |
| 10:30 am - 11:00 am | Tea Break & Networking   |
| 11:00 am - 11:30 am | <b>Ir Ashwin Thurairajah</b> , Executive Director, GreenRE<br>Bring Embodied Carbon Upfront  |
| 11:30 am - 12:00 pm | <b>Dr Yasmin Rasyid</b> , Head of Sustainability, Sime Darby Property<br>Topic: TBC  |
| 12:00 pm - 12:30 pm | <b>Panel Discussion</b><br>Engineering Energy Transition: What needs to be done<br>Panelist: Dr Rosli Khan, Dr Gary Theseira, Charles Im<br>Moderator: Ir Evan Ho Eng Siang                  |
| 12:30 pm - 02:00 pm | Lunch Break  |
| 02:00 pm - 02:30 pm | <b>Miss Linza Wells</b> , Executive Director, MDS Consultancy Group<br>The Path to Sustainable Infrastructure Through Active Travel and Pedestrianisation                                    |
| 02:30 pm - 03:00 pm | <b>Dr. Gary Theseira</b> , Director, Climate Governance Malaysia<br>Collaboration is key to climate action – where do civil engineers come in?   |
| 03:00 pm - 03:30 pm | <b>Panel Discussion</b><br><b>Topic: Sustainable and Resilient Infrastructure - Role of Engineers</b><br>Panelist: Tracy Yip, Ashwin Thurairajah, Yasmin Rasyid<br>Moderator: Dr. Brenda Lee |
| 03:30 pm - 04:00 pm | <b>Paul Edwards</b> , Global ESG Lead, TSA Riley<br>Role of ESG in Infrastructure Development  |
| 04:00 pm - 04:15 pm | Tea Break & Networking   |
| 04:15 pm - 04:45 pm | <b>Dr Robin Wong</b> , Senior Technical & Commercial Director, Rail for Asia, Aurecon<br>Topic: TBC  |
| 04:45 pm - 05:15 pm | <b>Panel Discussion</b><br>Topic: Civil Engineers Role in Malaysia's NZ2050<br>Panelist: TBC, TBC, TBC<br>Moderator: Bala Vijayasingam   |
| 05:15 pm - 05:30 pm | <b>Engineers Prize Competition</b>   |
| 05:30 pm            | <b>Closing Speech</b><br><b>Ir Dr Tony Chan</b> , Country Representative, Institution of Civil Engineers, Malaysia   |

# ICE Malaysia 2024 Conference

## Engineers' Responsibilities to Act

### FEES

|                 |      |
|-----------------|------|
| ICE MEMBERS     | FREE |
| NON-ICE MEMBERS | RM50 |

\*Fee covers full day conference including lunch and two tea breaks

### REGISTRATION PROCEDURE

Individuals please register online at: <https://www.icemalaysiaconference2024.com>. Seat will be confirmed and secured upon receipt of relevant payment.

#### Remarks:

- The conference is to be held in physical attendance.
- Registration will be confirmed on a first-come-first-served basis upon receipt of payment and priority will be given to ICE members.
- The registration fee is non-refundable.

#### Disclaimer:

The Institution of Civil Engineers (Malaysia Chapter) shall not under any circumstances be liable or otherwise for death or any injury or for any damage to or loss or destruction of property or otherwise, in any such case arising from any accident or mishap, and whether during or after this event, in preparation for it, traveling to or from it or otherwise.

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TBC

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# ICE Malaysia 2024 Conference

## Engineers' Responsibilities to Act

### SPEAKER PROFILE



**Mark Hansford**, Director of Engineering Knowledge, Institute of Civil Engineer UK  
*PAS 2080: Carbon Management in Buildings & Infrastructure*

Mark Hansford is the Director of Engineering Knowledge at the Institution of Civil Engineers (ICE). He plays a crucial role in shaping the knowledge content for civil engineering professionals. With over 20 years of experience in the civil engineering industry, Mark began his career as a practicing engineer with Atkins, where he worked on water supply and distribution projects both in the UK and internationally, including a major study in Ghana.

At ICE, Mark is actively involved in strategic initiatives like Project 13, which aims to promote collaborative and sustainable approaches to infrastructure delivery.



**Ir Ashwin Thurairajah**, Executive Director, Green RE  
*Bring Embodied Carbon Upfront*

Ir. Ashwin Thurairajah is the Executive Director of GreenRE, a Malaysian-based organization leading green building certification and sustainable development efforts. With over 18 years of experience in engineering, Ir. Ashwin holds a Master's Degree in Electrical Engineering and Management from Imperial College London. His expertise spans building services, oil & gas, and sustainable real estate.

Since joining GreenRE in 2017, he has played a pivotal role in pushing for sustainable practices in the Malaysian built environment, particularly through green building certification programs. Ir. Ashwin is also actively involved in shaping national sustainability policies, including contributing to the Energy Efficiency and Conservation Act and technical committees for Malaysian Standards on energy efficiency in buildings.



**Dr Yasmin Rasyid**, Head of Sustainability, Sime Darby Property  
*Topic: TBC*

Dr. Yasmin Rasyid is a sustainability scientist and environmentalist with over 26 years of experience. She holds a Bachelor's degree in Marine Biology from Duke University, a Master's in Biotechnology, and a PhD in Sustainability Science from the University of Malaya. Yasmin founded EcoKnights, a non-profit advocating for environmental sustainability in Malaysia, and has held key roles in both the public and private sectors. She was the Sustainability Director at Lendlease Malaysia and is currently General Manager of Sustainability at Sime Darby Property, where she focuses on decarbonization and building sustainable communities.



**Ms Linza Wells**, Executive Director, MDS Consultancy Group  
*Walking towards the future: The Path to Sustainable Infrastructure Through Active Travel and Pedestrianisation*

With over 28 years of experience in the transportation sector, Ms. Linza Wells obtained her BA (Hons) from the University of Liverpool and her MSc from the University of London, England. She has been an alumna member of the International Association of Traffic and Safety Science (IATSS) Forum Japan since 2004. Ms. Wells was previously a Chartered Member of the Chartered Institute of Logistics and Transport and is now a Chartered Member of the Chartered Institute of Highways and Transportation and the Transport Planning Society. Throughout her career in the transportation sector, she has been involved in numerous consultancy projects across Southeast Asia, Africa, the Middle East, and the UK as a consultant and project manager. She is currently overseeing both MDS Consultancy Group and Traffic Planners & Consultants.

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### SPEAKER PROFILE



**Dr. Gary Theseira, Director, Climate Governance Malaysia**

*Collaboration is key to climate action – where do civil engineers come in?*

Dr. Gary Theseira is a prominent figure in climate governance and sustainability in Malaysia. With over a decade of experience in climate change policy development, he currently serves as a Director and Council Member of Climate Governance Malaysia (CGM), an organization focused on advocating for responsible climate action within corporate boardrooms. Previously, Dr. Theseira held the role of Deputy Undersecretary for Climate Change at the Ministry of Natural Resources and Environment, where he played a key role in shaping national climate policies and representing Malaysia at 14 UN Climate Conferences (COPs).

In addition to his work at CGM, Dr. Theseira is an Adjunct Associate Professor at the Asia School of Business and serves as a Consultant Technical Advisor to the Malaysian Green Technology and Climate Change Corporation (MGTC). His extensive experience also includes contributing to sustainability efforts at the Forest Research Institute Malaysia (FRIM), where he specialized in forest carbon quantification and biodiversity conservation.



**Paul Edwards, Global ESG Lead, TSA Riley**

*Role of ESG in Infrastructure Development*

Paul Edwards is the Global Head of ESG at TSA Riley, where he brings over 20 years of expertise in environmental, social, and governance (ESG) initiatives. With a strong foundation in engineering, Paul has led a wide array of complex projects focused on sustainability, innovation, and strategic development. His experience includes working on decarbonization strategies, social impact programs, and customer experience improvements. He is also well-versed in human-centered design, project management, and team leadership, ensuring that his solutions align with both business goals and the wider community's needs.

Paul's global career has enabled him to establish a broad network of strategic relationships across industries. His leadership at TSA Riley emphasizes driving sustainable solutions that not only enhance business performance but also contribute to broader societal and environmental goals.



**Dr Bala Gurusamy, Marketing Director, Environment & Sustainability – Asia, Aurecon**

Dr Bala is currently the Managing Director for Aurecon Lestari Malaysia. Since June 2022, Dr Bala has also taken on the role of Market Director, Environment & Sustainability – Asia, responsible for overseeing the environment & sustainability business across Asia for the Aurecon Group. Dr Bala is an environmental and social safeguards specialist with 35 years of professional experience. He has delivered projects in a wide range of sectors from infrastructure, climate change, biodiversity, transportation, energy and water resources. He has planned and managed over 300 consultancy projects in Malaysia, Brunei, Indonesia, Bangladesh and Myanmar.

Dr Bala's expertise ranges from policy and programme formulation to project planning and implementation. He has played key roles in many national policies and strategic plans in Malaysia including the National Physical Plan, National Urbanisation Policy and the National Biodiversity. In recent years, been the team leader for the revision of the national handbooks for the EIA and the SIA as well as developing strategies for improving the impact assessment process in Malaysia and Bangladesh.



**Ir Dr Tony Chan, ICE Malaysia Country Representative,  
Chief Executive Officer, WCT Holdings Bhd.**

Ir. Dr. Tony Chan is our ICE Country Representative and currently the Chief Executive Officer of WCT Holdings Bhd where his 25 years of experience in research development, advisory, and execution and financial planning for mega urban and green infrastructure projects across Asia and Europe regions. Prior to his current role, Dr. Tony has helmed key leadership in Opus Group, Atkins, Mott MacDonald, and MMC Group.

A multi-disciplinary individual, Dr. Tony has experiences in urban transport, highway and bridges, sustainable urban green planning, climate change resilience and storm water management, wastewater and waste nexus energy technology, and water resources and river basin management. Currently, he is also an industry panel advisor for the civil engineering faculty at SEGi University & Colleges, where he shares his insights and knowledge with the next generation of engineers.