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Powering Green  
Data Centre



THE INSTITUTION  
OF ENGINEERS,  
SINGAPORE

# FUTURE-READY DATA CENTRES

ALIGNING WITH STANDARDS, POLICIES,  
AND GLOBAL NET ZERO COMMITMENTS



**TRACY LIU**

Senior Manager

**Building and Construction  
Authority (BCA)**



**ARVIND VERMA**

Senior Assistant Director

**Infocomm Media Development  
Authority (IMDA)**



**JUNICE YEO**

Managing Partner

**Eco-Business  
Asia Pacific**



**WED, 09 APRIL 2025, 2 PM - 6 PM**

REGISTRATION STARTS AT 1.30 PM



**CPD PROGRAM**

STU (M&E) / PDU (SCEM/PE) / SGBC (GM)



**LIFELONG LEARNING INSTITUTE, LECTURE THEATRE, LEVEL 2**

11 EUNOS RD 8, SINGAPORE 408601

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## DISCUSSION AND INSIGHTS

- ✓ The Green Mark for Data Centres (GMDC: 2024) framework and its applications.
- ✓ Roadmap for sustainable growth of data centres in Singapore.
- ✓ Emerging trends in data centre sustainability in alignment with global Net Zero commitments.

Fees (Inclusive of GST):  
IES Members - \$75.00  
Non-Members - \$89.00  
M&E RE/RTO - \$80.10

# SEMINAR AGENDA

In today's rapidly evolving digital landscape, data centers play a critical role in enabling technological progress while facing mounting pressure to reduce their environmental impact. This seminar brings together thought leaders and experts from the Building and Construction Authority (BCA), the Infocomm Media Development Authority (IMDA), and Eco-Business to explore key frameworks, policies, and strategies shaping the future of sustainable data centres.

The seminar aims to empower stakeholders to adopt innovative solutions and align with national and global sustainability goals, ensuring data centres remain future-ready and resilient in the face of environmental challenges.

## Who should join:

- Data centre operators and developers
  - Sustainability managers and professionals in the IT and digital infrastructure sectors
  - Consulting engineers and technical specialists in data centre design and operations
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## Speaker 1 : Tracy Liu (BCA)

### Session Title

Data Centre Sustainability: Implementing the Latest Green Mark Standards to Support Digital Infrastructure Growth

### Synopsis

This presentation will explore the latest Green Mark for Data Centre standards (GMDC: 2024), focusing on energy efficiency, water conservation, and sustainable design practices. We'll discuss the new Green Mark requirements for Power Usage Effectiveness (PUE) and Total System Efficiency (TSE), alongside innovations in cooling technologies, renewable energy integration, and carbon emission reporting and reduction strategies for data centres. The talk will address challenges and opportunities in achieving Green Mark certification, featuring case studies of successful implementations and their environmental impact. We'll also examine how these standards support sustainable digital infrastructure growth in Singapore.

### About the Speaker

Tracy Liu is a Senior Manager at the Building and Construction Authority of Singapore. With over a decade of experience in Green Mark Standards and data centre sustainability, Tracy has been instrumental in developing and implementing the latest Green Mark for Data Centre (GMDC: 2024) criteria, as well as the Green Mark 2021 criteria. She has contributed to more than 100 Green Mark projects, including over 30 data centre certifications. Tracy is dedicated to collaborating with industry stakeholders to drive the data centre sector towards a more sustainable future, supporting Singapore's digital growth while minimising environmental impact.



## **Speaker 2: Arvind Verma (IMDA)**

### **Session Title**

IMDA Green Data Centre Roadmap – Pioneering Sustainable Growth of Data Centres

### **Synopsis**

In May 2024, IMDA launched the Green Data Centre (DC) Roadmap, emphasising an end-to-end ecosystem approach for environmentally sustainable development of the DC sector. Arvind will share key points from the roadmap that outlines the critical role of DC operators in driving industry collaboration across 2 key thrusts:

- **Energy Efficiency:** Enhancing energy efficiency through cutting-edge hardware and software approaches to maximise capacity
- **Green Energy:** Accelerating the use of green energy to further expand the DC capacity for long-term growth

### **About the Speaker**

Arvind Verma is Senior Assistant Director under Digital Infrastructure Department of IMDA. He leads the technology and standards development to support environmentally sustainable growth of the DC sector in Singapore. Some of the key projects include Singapore Standard for deployment and operation of DC IT equipment under tropical climate (SS 697), BCA-IMDA Green Mark scheme for DCs and Energy Efficiency grant for DC IT equipment. Arvind holds Accredited Sustainability Advisor (ASA) credential issued by the Uptime Institute.

## **Speaker 3: Junice Yeo (Eco-Business)**

### **Session Title**

The future of data centres in light of global Net Zero commitments

### **Synopsis**

The rapid expansion of AI and cloud computing is driving the Southeast Asian data center industry, while also raising concerns regarding emissions. To achieve Net Zero targets, the industry must undergo decarbonisation, necessitating transformative solutions across the entire value chain. This session will examine the challenges and opportunities shaping the next generation of data centres, particularly in the context of the region's transition to a clean energy future.

### **About the Speaker**

Junice is a corporate sustainability specialist with two decades of experience in both public and private sectors in China and Southeast Asia. A regular speaker on business issues relating to carbon markets, sustainable finance, ESG regulations and sustainability innovation, she holds a CFA in ESG Investing and is a certified ESG disclosure specialist (GRI, IFRS SASB). Junice also serves as an external advisory member to the AIRBUS Executive Committee. Previously, she was the Regional Director at global sustainability advisory, Corporate Citizenship. Her public sector experience includes investment promotions at the Embassy of Switzerland, and Sino-Singapore Tianjin Eco-City. She has also led global brand efforts for the Singapore Tourism Board and at French multinational, Danone. Currently, at Eco-Business, Junice leads teams across Asia in providing news and ESG advisory services, and has helped hundreds of Asian directors incorporate sustainability skills into their businesses.

