



# RECORDED WEBINAR TALK ON DECARBONIZATION ROADMAP FOR BUILDING TOWARDS NET ZERO


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Organised by:  
Engineering Education Technical Division, IEM

*In Conjunction with World Engineering Day Celebration  
from 1st March till 7th March 2025*

## SPEAKER:

**Mr. Johnathan Yau**

 6 MARCH 2025, THURSDAY

 9.00AM - 11.00AM

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**IEM STUDENT : FOC**

**IEM MEMBERS: RM15**

**NON IEM MEMBERS: RM70**





# SYNOPSIS

Sustainability – Environmental and business challenges are forcing us to examine the role buildings play in carbon emissions and costly waste. Buildings consume about 30% of the world's energy via their construction and operations, and account for almost 40% of annual global greenhouse gas emissions. The future of building construction and operations, both new and retrofit, is where the world will win or lose the fight against climate change. Reaching the organization pledge or goal towards Net Zero Carbon.

The path of decarbonization for building that looks into both embodied carbon for the building and also the operational carbon within the facilities as well. 70% of the carbon emission comes from the Operational Carbon, deploying way of decarbonization focusing on the daily operational carbon.

Organization to embark in Net Zero for their organization and their facilities through a simple methodology of Strategize, Digitize & Decarbonize.

**Strategize: Embark in a ESG goal and derive organization roadmap**

**Digitize: Digitize current organization asset and digitize the operation**

**Decarbonize: Reduction of carbon footprint and enhance energy efficiency in daily operation**

# SPEAKER'S PROFILE

**Mr. Johnathan Yau** graduated with a Bachelor of Mechatronics Engineering (Hons) from Monash University. With over 15 years of experience in Building Management System & Energy Management System, he has established himself as an expert in the field. In his previous roles, he specialized in designing and implementing Building Management systems and Energy Efficiency Systems across various segments. Embracing the future of digitization and digital transformation, he has led Schneider Electric in deploying the EcoStruxure Building platform as an IoT solution to consultants and end users. Additionally, he has collaborated with IEM to organize seminars aimed at providing insights and technical knowledge on Digital Transformation and Building the Future to consultants and engineers in Malaysia. Mr. Yau also offers consultancy services to end users and provides training to consultants on Building Management System and Energy Efficiency System. Currently, in his role as a Solution Architect, he focuses on providing BMS and EPMS solutions for building sustainability across the East Asia & Japan zone. Furthermore, he serves as a segment specialist for Healthcare and Data Centre segments.