

# SMART BUILDING ENERGY-SAVINGS

***2 SCEM-PDU for SCEM (Approved and confirmed)  
PDUs for PE & CEng (To be confirmed)***

## SYNOPSIS

Singapore's ambition and whole-of-nation movement towards the national agenda of sustainable city development by 2030 under the Singapore Green Plan is progressing with a vengeance. From fighting climate change, conceiving decarbonisation technologies and establishing Singapore as an international hub for future green tech and policies.

The Singapore industry of Engineers and Consultants will all play a part in designing, instituting and implementing the green solutions that touches on the five key pillars under the Green Plan; "City in Nature", "Energy Reset", "Greener Infrastructure and Buildings", "Sustainable Living" and "Green Economy". With the policy reinforcement through the Building & Construction Authority (BCA) by raising the sustainability standards of our buildings through the Singapore Green Building Masterplan, this will pave the way for a low-carbon built environment.

The Singapore Green Building Masterplan (SGBMP), which aims to deliver the three targets of "80-80-80 in 2030", entails of;

- 1)Stepping up the pace to green 80% of our buildings by 2030
- 2)80% of new developments by GFA to be Super Low Energy (SLE) buildings from 2030
- 3)Achieving 80% improvement in energy efficiency for best-in-class green buildings by 2030

This drive leads to a need for industry players and building owners to strongly consider and adopt even smarter innovative energy-efficient technologies and controls that will positively transform the built environment sector with better building energy performance and standards.

The introduction will cover the system architecture and design of a smart building system with multiple data infrastructure approaches in which a building owner can dynamically host their building data lakes such as in a cloud-based environment, an on-premise data hall or even as a hybrid arrangement.

Further to the IBMS, integrated AI energy-saving solutions will also be covered, ranging from the building water-side to the air-side using dynamic control based on building load requirements. Whenever possible (while maintain room comfort), it will be explained how the AI controls and regulates the supply according to load changes thereby reducing friction loss which in turn results in lower energy consumption.

With Singapore currently at a transitional journey for the Green Digital Revolution, the pioneering batch of Green Building Engineers and Consultants involved in the Building and Construction industry participating in this seminar will be empowered with the knowledge on the adoption of smarter green energy solutions. This will transform building management design practices through the automation of manual processes to save energy and improve operational readiness with a grand objective of contributing towards a sustainable net-zero emissions urban Singapore for our future generations.

## SPEAKER



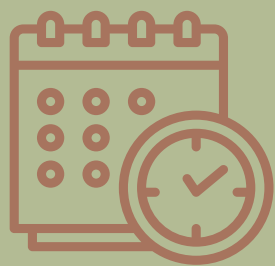
**Mr. Suzuki Ippei**

Professional Engineer (Japan)  
Design & Technical Manager  
Azbil Corporation

**Mr. Suzuki Ippei** is a Professional Engineer from Japan for Environmental Engineering and he is the design & technical manager of Azbil Corporation/Singapore, one of the world leaders in building and industrial automation systems.

His knowledge and experience in smart building systems allow him to precisely engineer the design and architecture of the open control platforms that are safely installed into projects and developments in Singapore. In tandem with the smart nation and sustainability objectives of Singapore, he implements AI energy-saving technologies into building controls to enable the improvement of building energy use intensity and drive environmental efforts for building owners towards going green.

He has contributed towards the design of more than a hundred control systems in Singapore and Japan and has been involved in the completion large-scale Singapore university campus infrastructural projects to enable the integration and control optimisation of multiple different brands of building management systems on open protocols as well as on open digital platforms. His proficiency and expertise have helped influence the design of smart control systems to improve building energy use intensity and reduce consumption-related carbon emissions in critical environment control such as district cooling systems, data centres, laboratories, clean rooms, institutions as well as commercial buildings.



**4 AUGUST 2022  
THURSDAY  
3 PM - 5 PM**



### Fees

**IES Members - \$20\***

**Non Members - \$40\***

*\*Fees indicated above excludes 7% GST*



**REGISTER NOW**

**Scan QR Code  
for registration**

**FOR ENQUIRIES, PLEASE CONTACT AMELIA.YEO@IESNET.ORG.SG**

***Organised by: Energy Technical Committee***