

## Decarbonisation Drive: Empowering Manufacturing SMEs for a Sustainable Future

**Date:** 5 August 2025, Tuesday

**Time:** 2:00 PM - 5:00 PM

*Registration starts at 1:30 PM*

### Speaker Biographies

#### EETC-SIT

**Dr. Deepak L. Waikar**, Research Fellow, Energy Efficiency Technology Centre of Singapore Institute of Technology, was associated with the premier institutions, polytechnics, colleges, universities, and academies in India and Singapore as well as with British and Australian Universities offering courses in Singapore. He has served on various committees in **professional** bodies such as **Chair** of the IEEE, Power & Energy Society (PES) Chapter, Singapore, and **Chair** of the IEEE Education Society Chapter Singapore. He is a recipient of the IEEE-PES **Outstanding Power Engineers' Award** 2003/2004 and Green Buddy Award 2004. Dr. Waikar has been associated with **Singapore Certified Energy Manager's** programme for more than a decade. He has been invited to give keynotes, plenary, and panel session presentations and chair/moderate technical sessions for international conferences and symposiums.



**Steven Huang Youzhi**, a Senior Research Fellow at the Singapore Institute of Technology (SIT). Prior to joining SIT, Steven accumulated 20 years of experience in the pharmaceutical industry, focusing on manufacturing energy performance and operational excellence.

He holds a Master's degree in Engineering from Nanyang Technological University, awarded in 2000. Throughout his career, Steven has specialised in energy management, leading numerous large-scale retrofit projects and energy audits. His commitment to energy efficiency was recognised when he received the Outstanding Energy Manager of the Year award in 2015.

Steven is a certified Singapore Certified Energy Manager (SCEM), an Energy Efficiency Opportunities (EEO) Assessor, and a recognised subject-matter expert in utilities and energy systems. His expertise lies in identifying and implementing energy-saving opportunities across complex industrial facilities.



## Schneider Electric

**Stella See** is the Head of Commercial Operations & Sustainability Program for Singapore. In this role, she leads the development and animation of key strategies and priorities for the country. She also actively drives partnerships with external ecosystem and leads initiatives that help accelerate the decarbonization roadmap and journey for Small and Medium Enterprises (SMEs).

Stella has been in Schneider Electric Singapore for the past 3 years. Prior to this role, Stella has driven business transformation across diverse industries. She has built her expertise in innovation and commercial excellence while embracing sustainability, and proven track record in **integrating strategic agility and operational efficiency** to drive business growth. Stella holds a Bachelor's degree with Honors from the National University of Singapore in Chemical Engineering.



## Singapore Manufacturing Federation

**Clara Kwan** is the Chief Sustainability Officer at the Singapore Manufacturing Federation, where she leads sustainability strategies with a business-savvy approach, guiding companies through ESG integration, sustainability assessments and strategic roadmaps. With expertise spanning investment management, legal compliance and business operations, she has held leadership roles, including COO, Head of Sustainability and Managing Director for a regional green power producer, as well as Global Head of Sustainability and Impact Investments for a creative change firm. A lecturer, trainer and assessor in sustainability leadership and governance, Clara also actively contributes to social impact projects, serving as a legal and investment advisor, grassroots sustainability adviser and mentor. She holds a Bachelor of Law (Honors) from NUS, an Executive MBA from Kellogg-HKUST and multiple professional certifications in ESG and sustainability standards.



## National Environment Agency (NEA)

**Leong Yi Ning** is part of the Department of Sustainability Programmes in NEA which develops and implements programmes and incentive schemes to drive energy efficiency and resource conservation in the industry. She graduated with a Bachelor of Engineering in Environmental/Environmental Health Engineering from Nanyang Technological University.



## **SMEs Spotlight (Sustainability Journey)**

### **Cantal United**

Since 2024, Cantal has made significant strides in embedding sustainability into its operations. The company established its QEHS and Green Practices Policies, and earned top-tier certifications including bizSAFE Star, and SAC-accredited ISO9001, ISO14001, and ISO45001.

In 2025, Cantal further accelerated its efforts by achieving the prestigious Green Mark Certificate (4-Tick Leader). It completed the installation of a 232.46kWp solar PV system, projected to reduce approximately 106 metric tonnes of CO<sub>2</sub> emissions and save around SGD 73,000 in annual electricity costs. The company also installed five EV charging stations and is actively participating in the Decarbonization Champion Program (DCP) and conducting product carbon assessments.

### **Fei Siong Group**

Fei Siong Group is taking thoughtful and practical steps toward sustainability, starting with data-driven energy monitoring. By leveraging IoT tools to track electricity usage, the team identified opportunities to reduce consumption and improve efficiency. The Group has also introduced digital hygiene reporting and piloted water-saving initiatives at selected sites—part of a broader commitment to continuous learning and progress.

Driven by the goal to future-proof operations, manage utility costs, and meet evolving ESG expectations, Fei Siong is also looking beyond its own footprint. Through its SME arm, KB99 Building Services, the Group aims to support fellow F&B operators in adopting simple, cost-effective sustainability practices that make a real impact.

### **Fire Armour**

Fire Armour Pte Ltd, a leading Singapore-grown provider of firefighting equipment and systems since 1979, has made significant strides in embedding sustainability across its operations. Under the SMF's CSO-as-a-Service (CSOaaS) programme, the company conducted a baseline assessment of its environmental footprint and developed a structured roadmap toward greener practices.

One of the key steps taken was the installation of solar panels across its rooftop façade, enabling a full transition to renewable energy that now offsets 70–80% of its electricity bill. Fire Armour also leveraged the NEA's Energy Efficiency Grant (EEG) to upgrade to more energy-efficient appliances, achieving an estimated 30% reduction in energy use from those systems alone. Additional energy conservation initiatives include implementing a smart lighting system with motion sensors for common areas, further contributing to a lower operational carbon footprint.

| Time    | Session                                                                                                                                | Speaker                                                                                                                                                                                                                                                                                                            | Venue                                                                                                                            |
|---------|----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| 1.30 pm | Registration                                                                                                                           |                                                                                                                                                                                                                                                                                                                    | Singapore Manufacturing Federation<br>(Alexandra Technopark,<br>438A Alexandra Road,<br>Lobby 2, #01-05/06,<br>Singapore 119967) |
| 2.00 pm | Welcome Remarks                                                                                                                        | Singapore Manufacturing Federation (SMF)<br><br>Melvin Tan, SMF Chairman for Sustainability                                                                                                                                                                                                                        |                                                                                                                                  |
| 2.10 pm | Opening Keynote                                                                                                                        | Schneider Electric<br><br>Fung Ling Seah, Vice-President Strategy, Sustainability and Marketing<br>Energy Efficiency Technology Centre (EETC) of Singapore Institute of Technology (SIT)                                                                                                                           |                                                                                                                                  |
| 2.20 pm | Energy Sustainability and Management for Manufacturing SMEs                                                                            | Dr. Deepak L. Waikar, Research Fellow<br><br>Steven Huang Youzhi, Senior Research Fellow                                                                                                                                                                                                                           |                                                                                                                                  |
| 2.40 pm | Propelling Businesses on their decarbonisation Journey with Schneider Electric                                                         | Schneider Electric<br><br>Stella See,<br>Head of Commercial Operations and Sustainability Program                                                                                                                                                                                                                  |                                                                                                                                  |
| 2.55 pm | Chief Sustainability Office-as-a-Service (CSOaas)                                                                                      | Singapore Manufacturing Federation (SMF)<br><br>Clara Kwan, Chief Sustainability Officer                                                                                                                                                                                                                           |                                                                                                                                  |
| 3.10 pm | Energy Efficiency Grants (EEG) for the Manufacturing Sector                                                                            | National Environment Agency (NEA)<br><br>Leong Yi Ning, Executive Engineer, Sustainability Division                                                                                                                                                                                                                |                                                                                                                                  |
| 3.25 pm | Panel Discussion : Empowering Manufacturing SMEs on Their Sustainability Journey: Strategies, implementation, and Real-World Successes | Moderator:<br>Stella See<br>Head of Commercial Operations and Sustainability Programme<br>Schneider Electric<br><br>Panellists:<br>Ms Xu Ziyi- Sustainability Specialist (Cantal United)<br>Mr Tan Ting Wei- Transformation Lead (Fire Armour Pte Ltd)<br>Mr Eric Yim- Manager (Fei Siong Food Management Pte Ltd) |                                                                                                                                  |
| 4.05 pm | Closing Remarks                                                                                                                        | Dr. Deepak L. Waikar, Research Fellow<br>Singapore Institute of Technology (SIT)                                                                                                                                                                                                                                   |                                                                                                                                  |
| 4.15 pm | End of Event & Refreshments                                                                                                            |                                                                                                                                                                                                                                                                                                                    |                                                                                                                                  |