

Organised by:

PUBLIC SECTOR ENGINEERS SPECIAL INTEREST GROUP (PSESIG), IEM

BEM APPROVED CPD: 2

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PHYSICAL PRE-AGM TALK ON EXPERIENCE SHARING ON WASTE TO ENERGY (WTE) PROJECT

Date : 2 August 2025 (Saturday)
Time : 9.00 am - 11.00 am
**Venue : Auditorium Malakoff, Wisma IEM,
Petaling Jaya, Selangor**

Registration Fees:

- **Student Member : FOC**
- **IEM Member : RM 15.00**
- **Non-Member : RM 70.00**

Synopsis:

According to MIDA news on January 9, 2023, Waste to Energy (WtE) solutions are increasingly recognized as a preferred option for treating residual waste and promoting sustainable waste management in Malaysia.

The report clarifies that WtE refers to the energy recovery process in which non-recyclable waste materials are converted into usable heat, electricity, or fuel through various methods such as combustion, gasification, pyrolysis, anaerobic digestion, and landfill gas recovery.

On October 30, 2024, the Government of Malaysia announced plans to collaborate with the private sector to establish 18 WtE plants across Peninsular Malaysia. The chairman of SWCorp indicated that the construction of each WtE plant is projected to cost between RM500 million and RM1 billion, depending on processing capacity, which can range from 1,000 to 2,000 tons of waste. Currently, one operational WtE plant exists in Negeri Sembilan, with plans for the next facility to be built in Bukit Payong, Johor, followed by another in Sungai Udang, Melaka.

Additionally, a WtE facility with a processing capacity of 3,000 tons—the largest in Malaysia—is scheduled for completion by the end of 2025 in Jeram, Selangor.

It is evident that Malaysia is transitioning into a new era of waste treatment, moving away from traditional landfills towards Waste to Energy (WtE) solutions.

The objective of this talk is to share the knowledge gained, lesson learned and commercial consideration in developing WtE project.

Speaker: Ir. Tian Fung Wang

Ir. Tian Fung Wang is an experienced and qualified Professional Engineer with over 20 years of experience in Power Plant construction, commissioning and operation. He has vast experience in the construction of Waste to Energy plant. He was the Technical & Project Director in charge of the construction of Indonesia 1st 750TPD WtE Plant at Surabaya under BOT concept. Prior to that, he had completed construction and commissioning of Malaysia 1st 100TPD Scheduled Waste to Energy Plant at Negeri Sembilan and Thailand 1st 700TPD WtE Plant at Phuket under BOT concept. Currently, he is the Technical & Project Director for Econas Energy Sdn Bhd assisting sister company – ER2E completing 3rd Scheduled Waste Treatment Centre in Peninsular Malaysia. He is also Principal Consultant in iTAKE Solutions Sdn. Bhd. leading the design of new Thermal Decomposition Project resolving the excess of Empty Fruit Bunch in Palm Oil Mill. He is also an adjunct lecturer for Miri, Curtin University. Currently, Ir. Tian also providing training & advisory services in developing WtE Plant in Malaysia and overseas.

