

**LIVE**



**WEBINAR**

# Optimum Deployment of Decarbonization Strategies

Organised by:

Chemical Engineering Technical Division, IEM

BEM Approved CPD: Applying

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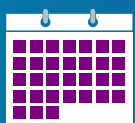
## SPEAKERS:



**Ir. Prof. Dr. Dominic Foo**



This Event Will Be Held On:



**Wednesday**

**16 December 2026**



**3.00pm - 5.00pm**

**REGISTER NOW**

### Registration Fees

**IEM Students : Free**

**IEM Members : RM 15**

**Non-IEM Members : RM70**



**Mr. Chew Chee Hong**



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## SYNOPSIS

With the rising concerns on climate change, many industrial companies are moving towards decarbonisation initiatives in recent years. In most cases, there are annual capital expenditure (CAPEX) budget allocated for the selection of decarbonisation initiatives, along with targeted decarbonisation goal. When the decarbonisation initiatives are a lot (e.g. more than 30), performing assessments for selecting the right decarbonisation initiatives can be a very challenging task. In this webinar, a simple but elegant mathematical model will be presented for the optimal selection of decarbonisation initiatives, taking into CAPEX constraint and decarbonisation goal. The model allows multi-period consideration, where the decarbonisation initiatives are allocated to their designated time period accordingly. The solved model may be plotted as the CO<sub>2</sub> reduction composite curve, which is a useful graphical tool to facilitate discussion during decision making process. The newly developed method was tested on a large petrochemical corporation where more than 30 decarbonisation projects were evaluated for their optimal deployment within a three years planning horizon.

## SPEAKER 1

Ir. Dr. Dominic Foo is a Professor at the University of Nottingham Malaysia, and is the Fellow of The Institution of Engineers Malaysia (IEM). Fellow of the Institution of Chemical Engineers (IChemE), Fellow of the Academy of Sciences Malaysia (ASM). He is top 2% world-renowned scientist. Professor Foo is an active author, with 13 books, more than 240 journal papers. Professor Foo is the Editor-in-Chief for Process Integration and Optimization for Sustainability (Springer Nature), and editorial board members for several other renowned journals. He is the winners of the Innovator of the Year Award 2009 of IChemE, Outstanding Young Malaysian Award 2012 of Junior Chamber International (JCI), Outstanding Asian Researcher and Engineer 2013 (Society of Chemical Engineers, Japan), and Top Research Scientist Malaysia 2016 (ASM).



## SPEAKER 2

Mr. Chew Chee Hong is in Operational Excellence of Petronas Chemicals Group Bhd, in which he works with plant engineers of different Petronas operation units to coordinating greenhouse gas emission efforts. He completed his MSc in University of Nottingham, with thesis focused on optimal deployment of greenhouse gas emission methods.

