

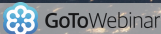
WEBINAR

2 HALF DAYS COURSE ON "MAXIMISE ENERGY EFFICIENCY WITH COGENERATION"

Certificate
is provided

14 & 15 JULY 2021

1:00 PM - 5:00 PM KUALA LUMPUR



Registration Fees - Subject to 6% SST

	<u>ONLINE</u>	<u>NORMAL</u>
IEM STUDENT MEMBER	: RM 75	RM 90
IEM GRADUATE MEMBER	: RM 125	RM 150
IEM CORPORATE MEMBER	: RM 200	RM 225
NON-IEM MEMBER	: RM 480	RM 540

For Online Registration,
visit www.iem.org.my

SPEAKERS:

**Dr. Kamarul Ariffin Amminudin &
Ir. Prof. Dr. Dominic Foo**

BEM Approved CPD Hours: 7.5
Ref. No. : IEM21/HQ/166/C (w)



SYNOPSIS

Energy consumption in the process industries contributes to almost half of the operating expenses in the facilities. With the power and fuel tariffs are on the rise, efforts to reduce energy consumption are becoming increasingly important today. Solutions are there to be tapped for the plant's benefits. But do we have the right tool and right approach to bring the solution to life, i.e. the one that we are able to implement it and ultimately realize the energy efficiency benefits? This course will help the participants to address this energy efficiency challenge by focusing on combined heat and power scheme, or cogeneration in short.

OBJECTIVES

- Explore opportunity in energy efficiency from steam systems
- Understand the strategy to tackle energy efficiency from utility in sufficient depth
- Quantitative approach on determine cogeneration potential based on industrial waste

ABOUT SPEAKERS

Dr. Kamarul Ariffin Amminudin

Dr. Kamarul is a senior operation engineer at Saudi Aramco, Saudi Arabia, where he leads the process engineering team and coordinates the energy conservation and process optimization efforts. He is one of the company resident experts in pinch analysis focusing on energy efficiency and resource conservation. He has been instrumental in achieving energy efficiency improvement consecutively for the last 10 years for its production facilities. As a result of this achievement, his department has been internationally recognized where it earned the Frost&Sullivan Manufacturing Leadership Award in the US for sustainability achievement in 2015, 2017 Emirates Energy Award in Dubai and the Davos World Economic Forum on IR 4.0 for developing smart performance monitoring application. He has published extensively outlining the optimization efforts in its facilities in the prestigious Oil & Gas Journal. He earned two US patents with 2 pending US patents to his credit. He is a Fellow of the IChemE, UK and a registered UK Chartered Engineer.

Ir. Prof. Dr. Dominic Foo

Professor Ir. Dr. Dominic Foo is a Professor of Process Design and Integration at the University of Nottingham Malaysia, and is the Founding Director for the Centre of Excellence for Green Technologies. He is a Fellow of the Institution of Chemical Engineers (IChemE), a Fellow of the Academy of Sciences Malaysia (ASM), a Chartered Engineer (CEng) with the Engineering Council UK, a Professional Engineer (PEng) with the Board of Engineer Malaysia (BEM), as well as the President for the Asia Pacific Confederation of Chemical Engineering (APCChE). He is a world-renowned scholar in process integration, focusing on resource conservation and CO2 reduction. He collaborates with more than 50 research scholars and industrial practitioners over Asia, Europe, North America and Africa. Professor Foo is an active author, with more than 170 journal papers and made more than 230 conference presentations, with more than 30 keynote/plenary speeches. He published eight books, including one on green technologies for oil palm industry. He served as International Scientific Committees for many important international conferences. Professor Foo is the Editor-in-Chief for Process Integration and Optimization for Sustainability (Springer Nature), Subject Editor for Process Safety & Environmental Protection (Elsevier), and editorial board members for several other renowned journals. He is the winners of the Innovator of the Year Award 2009 of IChemE, Young Engineer Award 2010 of IEM, Outstanding Young Malaysian Award 2012 of Junior Chamber International (JCI), Outstanding Asian Researcher and Engineer 2013 (Society of Chemical Engineers, Japan), Vice-Chancellor's Achievement Award 2014 (University of Nottingham) and Top Research Scientist Malaysia 2016 (ASM). He conducted close to 100 professional workshops to academics and industrial practitioners worldwide, including those in the UK, Australia, South Korea, South Africa, etc.

AGENDA

14 JULY 2021, WEDNESDAY

01:00 pm - 02:00 pm - Introduction to Cogeneration System & Furnace and Gas Turbines

02:00 pm - 03:00 pm - Steam System & Steam and Power Balance

03:00 pm - 03:15 pm - Break

03:15 pm - 04:45 pm - Optimization of Steam System

04:45 pm - 05:00 pm - Q&A

15 JULY 2021, THURSDAY

01:00 pm - 02:00 pm - Evaluation of Cogeneration Potential – Graphical Technique

02:00 pm - 02:30 pm - Evaluation of Cogeneration Potential – Algebraic Technique

02:30 pm - 02:45 pm - Break

02:45 pm - 03:30 pm - Optimisation Approach for Maximising Cogeneration Potential

03:30 pm - 04:45 pm - Industrial Case Studies

04:45 pm - 05:00 pm - Q&A

Cancellation Policy

No cancellation will be accepted prior to the date of the event. However, replacement or substitute may be made at any time with 7 days prior notification and substitute will be charged according to membership status.

Personal Data Protection Act

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"IEM reserves the right to alter or cancel the programme due to unforeseen circumstances at its discretion".

For further details, kindly contact:
The Institution of Engineers, Malaysia
Bangunan Ingenieur, Lots 60/62, Jalan 52/4, P.O. Box 223 (Jalan Sultan), 46720 Petaling Jaya, Selangor
Tel : 603-7968 4026 Fax : 603-7957 7678 Email : amira@iem.org.my