

Young Engineer Section (YES)

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REGISTRATION

(One Day Course on District Energy – A Sustainable Energy Solution for the Modern City)
~~13 September 2017~~ **POSTPONED UNTIL FURTHER NOTICE**

Name(s)	IEM M'ship No. & Grade	Fees (RM)
1.		
2.		
		SUB TOTAL
		ADD GST @ 6%
		TOTAL PAYABLE

Company: _____

Address: _____

Mobile: _____ Tel(0): _____ Fax: _____

E-mail: _____

(Please write clearly as the "Confirmation Notification" will be sent via email)

Contact Person: _____ Designation: _____

Signature: _____ Date: _____

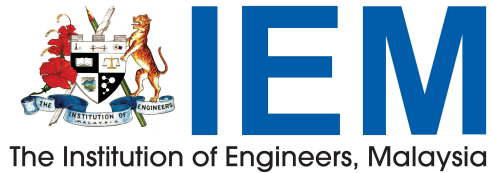
PAYMENT DETAILS

Cash - RM _____

Cheque no. _____ for the amount of RM _____
 (non-refundable) and made payable to "THE INSTITUTION OF ENGINEERS, MALAYSIA"
 and crossed 'A/C Payee Only'.

Terms & Conditions:

- For ONLINE REGISTRATIONS, only ONLINE PAYMENT is applicable [via Credit Card]
- Payment via CASH / CHEQUE / BANK-IN TRANSMISSION / BANK DRAFT / MONEY ORDER / POSTAL ORDER / LO / WALK-IN will be considered as NORMAL REGISTRATION
- For online registrations, please note that **payment MUST be made on registration.**
- **FULL PAYMENT** must be settled before commencement of the course, otherwise participants will not be allowed to enter the hall. If a place is reserved and the intended participants fail to attend the course, the fee is to be settled in full. If the participant failed to attend the course, the fee paid is non refundable. Registration fee includes lecture notes, refreshment and lunches.
- The Organising Committee reserves the right to cancel, alter, or change the program due to unforeseen circumstances. Every effort will be made to inform the registered participants of any changes. In view of the limited places available, intending participants are advised to send their registrations as early as possible so as to avoid disappointment.



One Day Course on District Energy – A Sustainable Energy Solution for the Modern City

BEM Approved CPD/PDP Hours: 7.5 Hours
 Ref. No: IEM17/HQ/307/C

Jointly Organised by:

Young Engineers Section & Mechanical Engineering Technical Division
 of Engineers, Malaysia

~~13 September 2017 (Wednesday)~~ **Postponed until further notice**

9.00am – 6.00 pm

Auditorium Tan Sri Prof. Chin Fung Kee, 3rd Floor,
 Wisma IEM, Petaling Jaya, Selangor Darul Ehsan

REGISTRATION FEES (Subject to GST)

Grade	Online Fee	Normal Fee
IEM Student Member	RM 150.00	RM 180.00
IEM Graduate Member	RM 250.00	RM 300.00
IEM Corporate Member	RM 400.00	RM 450.00
Non – member	RM 500.00	RM 600.00

Register online at www.myiem.org.my

Closing Date: 10 September 2017



Postponed until further notice

SYNOPSIS

In February 2015, UNEP (United Nations Environment Programme) launched the report "District Energy in Cities" in which it is stated that:

- i) Up to 70% of global energy consumption can be attributed to Cities around the world.
- ii) Cities are accountable for 40-50% of global GHG emissions.
- iii) The same report states that *"reducing Cities' Heating and Cooling Energy Consumption Key to Keeping Global Temperature Rise to 2°C"*.
- iv) UNEP recommends *"a transition to modern district energy systems"* as a means to realize up to *"60 per cent of required energy sector emissions reductions by 2050 and reduce primary energy consumption by up to 50 per cent"*.

From the UNEP report, it is clear that District Energy plays a critical role in reducing the primary energy consumption and the GHG emissions of modern cities.

District Energy systems combine different generation technologies such as Cogeneration (Combined Heat and Power), District Cooling (Heating), and/or Thermal Energy Storage, to provide a smart solution to decarbonize the energy networks within a modern city by reducing the carbon intensity of power and cooling.

This full day seminar shall discuss the ways in which District Energy can be implemented in modern urban developments to achieve higher primary energy efficiency and lower GHG emissions. The seminar shall consist of 2 sessions.

The first session shall discuss the design principles for an efficient and reliable District Cooling System (DCS). It covers the various equipment/technology available for a DCS system and the key design issues crucial to the success of a DCS.

The second session shall introduce the concept of Cogeneration and explore different technology options available with particular emphasis on Gas Fired Cogeneration District Cooling. Various case studies and examples will be presented to illustrate the improvement in primary fuel efficiency that can be expected with each design approach.

BODATA OF SPEAKER

Mr. Danny Tam Hong Khai is an alumnus of the National University of Singapore, having graduated in 1994 with a Bachelor's degree in Mechanical Engineering. He has been involved in the District Energy industry since 1998, and has accumulated more than 19 years' experience in the turnkey construction of District Cooling and Cogeneration plants in Malaysia, Thailand, Singapore and the UAE.

Mr. Danny has long been an ardent advocate of District Energy Systems as an eco-friendly solution, and this has led him to regularly share his experience and expertise at various lectures, seminars and conferences organised by the Institution of Engineers Malaysia, ASHRAE (Malaysia Chapter), Fleming Gulf, Hong Kong Institution of Engineers and Politeknik Ungku Omar.

Mr. Danny's extensive portfolio of District Energy Plants include the following major projects: Cogeneration District Cooling Plant for Suvarnabhumi Airport (Bangkok, Thailand), District Cooling Plant Biopolis (Singapore), 3 Plant District Cooling Network for Discovery Gardens (Dubai, UAE), 2 Plant District Cooling Network for Palm Jumeirah Trunk Crown (Dubai, UAE), Cogeneration District Cooling Plant for Universiti Teknologi Petronas (Tronoh, Perak), Cogeneration Power Plant for Petronas Penapisan Melaka (Sungai Udang, Melaka), CUP-2 Cogeneration Power Plant for Rayong Industrial Estate (Rayong, Thailand), Cogeneration Power Plant for Petronas Fertilizer Kedah (Cury, Kedah), Cogeneration Power Plants for Petronas Gas Processing, Pengerang & Negeri Sembilan (Pengerang, Negeri Sembilan), District Cooling Plant for KLIA2 (Sepang), District Cooling Plant for Abu Dhabi Airport Mid Field Terminal (Abu Dhabi, UAE) and Cogeneration Power Plant for Toray Industries (Prai, Penang).

Mr. Danny currently holds the position of General Manager (Technical) at Kuala Lumpur Engineering Centre, Shinryo Corporation's design and engineering center for District Energy projects. Amongst his current District Energy projects are the District Cooling Plant serving Menara PNB 118 in Kuala Lumpur, an iconic development consisting of an 118 storey skyscraper (630m tall) together with a shopping complex, office buildings and residential suites, and the Cogeneration Plant Expansion at Utilities Gebeng serving the Gebeng Integrated Petrochemical Complex (IPC).

TENTATIVE PROGRAMME

Time	Title
08.30 am - 09.00 am	Registration
09.00 am - 10.45 am	Introduction to District Cooling System
10.45 am - 11.00 am	Tea Break
11.00 am - 01.00 pm	District Cooling - Equipment and Components
01.00 pm - 02.00 pm	Lunch
02.00 pm - 03.45pm	Introduction to Cogeneration System
03.45 pm - 04.00 pm	Tea Break
04.00 pm - 06.00 pm	Cogeneration - Equipment and Component

CANCELLATION POLICY

IEM reserves the right to postpone, reschedule, allocate or cancel the course. Full refund less 30% if cancellation is received in writing more than 7 days before start date of the event. No cancellation will be accepted prior to the date of the event. However, replacement or substitute may be made at any time with prior notification and substitute will be charged according to membership status.

PERSONAL DATA PROTECTION ACT

I have read and understood the IEM's Personal Data Protection Notice published on IEM's website at <http://www.myiem.org.my> and I agree to IEM's use and processing of my personal data as set out in the said notice.