



The Institution of Engineers, Malaysia

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Technical Talk on “Minimizing Energy Use and Building in Energy Generation in Water and Wastewater Assets”

(Organized by Electrical Engineering Technical Division IEM)

Date : 3rd October 2019 (Tuesday)
Time : 5.30pm to 7.30pm (Refreshment will be served at 5.00pm)
Venue : Auditorium Tan Sri Chin Fung Kee, Wisma IEM, PJ
Speaker : Mr. Adrian Marsden

BEM Approved CPD/PDP Hours: 2
Ref Number: IEM19/HQ/426/T

SYNOPSIS

Water/wastewater utilities are significant power users but also have the opportunity to generate their own power and design facilities which are more efficient. We will discuss a number of examples taken from projects around the world, including the Philippines, UK and Australia, where renewable technologies have been made integral elements of capital investment programmes. These examples include a hydro-turbine on an used water treatment plant, hydro-turbines on large scale water transmission lines, solar power at water treatment sites and wind turbines within treatment plants. In addition we will cover how the use of appropriate analysis and modelling, through CFD and physical techniques improves process efficiency and in turn lowers energy use. Aside from technical elements we will highlight some of the constraints, typically from regulatory frameworks, that challenge the implementation of such approaches. We will suggest some approaches that have been adopted to allow projects to be implemented

SPEAKER'S BIODATA

Mr. Adrian leads the infrastructure team in Arup's Philippine office. Adrian's professional background is a Chartered Civil Engineer, Chartered Water, and Environmental Manager and Member of the Association for Project Management. He graduated from Southampton University in the UK in 1999, with a Master's Degree in Civil Engineering. He has worked on a range of water-related projects over the last 19 years. This started off with work in the office and on-site in the UK. It then moved onto work in Romania and more recently in the Philippines. The majority of his experience has been in the assessment, design, modification, and construction of water and wastewater assets. He has been working in the Philippines for the last 9 years; acting as the Project Director and Project Manager delivering a range of master planning, water, wastewater and waste to energy projects for local clients. Some of his Philippines projects are such as 150 MLD Rodriguez water treatment plant, 150 MLD Putatan water treatment plant 2, 1500 MLD La Mesa WTP1 improvement scheme, 75 MLD Lilingan Ng Mga Bayani used water treatment plant and 100 MLD Taguig Central used water catchment project. He has seen at first hand the way in which projects are delivered in developing economies and some of the challenges which are encountered.

Ir. Francis Xavier Jacob
Chairman,
Electrical Engineering, Technical Division

FEE ANNOUNCEMENT

(Effective: 1st October 2017)

Members:

- (i) Registration Fee: No Charge
- (ii) Administrative Fee:
 - (a) Online RM15
 - (b) Walk-In RM20

Non-Members:

- (i) Registration Fee: RM50
- (ii) Administrative Fee: RM20

- Limited seats are available on a "first come first served" basis (maximum 100 participants).
- To secure your seat, kindly register online at www.myiem.org.my

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CPD Hours Validation:

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Membership No.:

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