



香港廢物管理學會

Hong Kong Waste Management Association

P.O. Box 28705, Gloucester Road, Hong Kong

<http://www.hongkongwma.org.hk>

NOTICE OF TECHNICAL VISIT

Greater Bay Area Series III

***Technical visit to Food Waste Pilot Plant in Zhuhai and
Zhuhai Yunzhou Intelligent Technology Co. Ltd.***

16 March 2019 (Saturday); 08:00am ~ 10:00pm

Dear HKWMA Members,

In collaboration with the HKIE Environmental Division, HKWMA is pleased to announce the said technical visit in Zhuhai. Brief itinerary and details of the technical visit are as follows:

Itinerary

- 08:00am assembly at Sheung Wan Shun Tak Centre to Zhuhai Jiuzhou Harbour
- Coach to the Food Waste Pilot Plant (FWPP)
- Coach to the Unmanned Surface Vehicle (USV) Centre
- Coach back to Futian Port

Note: *The organizer has right to change the pick-up point without prior notice before departure. Final confirmation will be given to successful applicant three days prior to the visit.*

Programme Highlights

Food Waste Pilot Plant (FWPP)

This food waste pilot plant was jointly developed by **Hong Kong Productivity Council** (HKPC) and **Associated Engineers Limited** (AEL) in Zhuhai since mid-2018. The objective of this pilot study is to demonstrate the performance and efficiency of a **2-stage Anaerobic Digestion (AD) system** after scaling up from



50kg/day to 1 tonne/day (1,000kg/day) of maximum treatment capacity. This 2-stage AD technology has been awarded the winning design at the **45th Geneva International Exhibition of Inventions 2017** and the Innovation Award at the **2017 Institution of Engineering and Technology** in London.

The by-products after AD process including i) methane gas for heat / electricity generation, ii) residual floating oil for biodiesel production and iii) solid residue as a kind of animal feed could be 100% fully utilized for commercial application.

Unmanned Surface Vehicle (USV)

USV is a professional robot working on the surface of water. It has demonstrated more and more benefits to various environmental application areas, such as water sampling, water quality monitoring, water surface cleaning, and nuclear radiation monitoring etc. USV is a manoeuvrable and reliable way to improve working efficiency and reduce working risk on water.

YunZhou is the world-leading USV solution provider. Since 2010, YunZhou's autonomous boats have already served quantities of clients from industry, government office, research institute and universities in the world wide. With the big opportunities in the Artificial Intelligence era, YunZhou will make continuous efforts to develop more and more advanced USV solutions to better serve people's life.

Registration & Enquiries

Prior registration is required. This technical visit is **HK\$300** for HKIE &HKWMA member. Non-member charges HK\$450. Participants is limited to 20. Only successful applicants will be notified on the payment on or before **10th March 2019**. Please complete the online enrolment form and apply via the website of Environmental Division (<http://ev.hkie.org.hk>). Attendance certificates will be issued. For enquiries, please contact Ir CS Lam at 91527659

With best regards,

The Hong Kong Waste Management Association