

# Technical Visit to

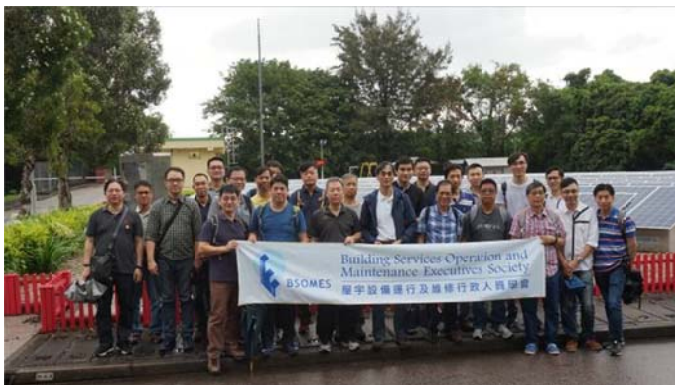
## Siu Ho Wan Sewage Treatment Works

Co-organized by the Building Services Operation and Maintenance Executives Society (BSOMES) and Energy Institute Hong Kong (EIHK)

By Ir Ray CHAN and Ir K F YEE

A technical visit to the Hong Kong's Largest Solar and Sewage Treatment Works was successfully organized at Siu Ho Wan Sewage Treatment Works on 8 July 2017 with 26 participants from BSOMES and EIHK.

The group visited at Siu Ho Wan Sewage Treatment Works in the morning. The Siu Ho Wan Sewage Treatment Works was designed to provide sewage treatment services for Chek Lap Kok Airport, Tung Chung, Discovery Day and Disneyland. For aiming at electricity saving, the Solar Farm equipped with over 4200 solar panels and generated 1.1 million kWh of electricity power consumption annually for the sewage treatment works, which was equivalent to 25% of the current annual electricity consumption of the plant.



Total 26 participants attended the Technical Visit at Siu Ho Wan Sewage Treatment Works on 8 July 2017.

At the beginning of site visit, the honourable speaker, Ir David HO of Drainage Services Department (DSD), started the presentation to introduce the development history of Siu Ho Wan Sewage Treatment works which was upgraded as Chemically Enhanced Primary Treatment (CEPT) works in 2004 with approx. 9 hectares plant area in average dry weather flow up to 180,000m<sup>3</sup>/day. In addition, DSD considered to promote the use of renewable energy, reduce footprint and emission, combat climate change, promote energy saving, etc. and therefore three (3) solar farm (Area A, B and C) constructed at Siu Ho Wan Sewage Treatment

works with total 1.1 hectare in December of 2016 to generate total capacity up to 1,101.65 kW for operating the world-class water treatment services for enabling sustainable development of Hong Kong.

Afterwards, Ir HO escorted all participants starting the site tour around the sewage treatment works to explore the solar farm including the construction technology, system configuration, system efficiency, and operation and maintenance of the plant facilities.



The Solar Farm constructed at Siu Ho Wan Sewage Treatment

As a result, Ir HO delivered a fruitful presentation and his sharing with valuable information and hands-on experience in the Sewage Treatment works and Solar Farm conveyed to the group of participants through the technical visit.

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*On behalf of EIHK and BSOMES, Vice Chairman of EIHK – Ir K F YEE and Vice President of BSOMES – Ir Chris TING presented souvenirs to Engineer of DSD – Ir David HO (From left: Ir K F YEE, Ir David HO, Ir Chris TING)*

Finally, the 3-hour tour was ended at 12:00 noon and all participants had a fruitful Saturday morning with rounds of applause for organizing by the team of BSOMES and EIHK. We would like to express our sincere thanks to Ir David HO and the team of Drainage Services Department, and all helpers for their great efforts being exerted on this technical visit.