

## Technical Visit at T ▪ PARK

By Mr. Justin PANG

Technical Visit at T ▪ PARK Sludge Treatment Facility was successfully held on 3<sup>rd</sup> March 2018. The 2-hours walkthrough tour began from the exhibition hall. Videos shown depicting original initiative of the plant, in having the first facility to achieve 'Waste-To-Energy', recycling and up-cycling in Hong Kong.

The park gathers sludge from 11 Sewage Treatment Works in Hong Kong. After deodorisation, the collected sludge will be sent through Incineration process by the bunker. Fluidised Bed Technology is implemented to transfer heat into sludge more easily whilst the action of the sand in the turbulent air strips the sludge of any ash builds up. This process clears 90% of sludge resulting in minimising the burden on landfills, and supply electricity for the whole plant's operation on its own. On the other hand, the expelled waste and substance will be handled by Flue Gas Treatment and Ash & Residue Handling procedures. At full operation, the plant can achieve 2000 tonnes of treatment capacity in everyday.

The park up-cycle materials such as the fenders from the historic Wan Chai Ferry Pier, discarded cable wheel and old school chairs. They were refurbished and made use inside the building at the centre of the park. The plant was also designed to be hidden into a building with a roof shape of bird's wings which is also used for collecting rainwater for reusing as flushing and irrigation purpose.

Our visit was accompanied by a group of primary school students. It is happy to see the park to play a significant role in educating youngsters to build up the concept for cleaning and saving energy. Moreover, the facility utilise the remaining heat generated to operate a spa pool. It is fascinating to have the sludge treatment facility to act as an educational base, an entertaining place, besides being a gloomy industrial plant.

The participants received environmental friendly messages and gained plenty knowledges on 'Waste-To-Energy' technologies, from the eye-opening, inspiring visit. On behalf of the YMC, we would like to appreciate the hospitality by T ▪ PARK for in giving us a fruitful event.

