Technical Visit Information

Site	Site 1: IWK Pantai 2 STP	Site 2: Green Street Farm
Date	4th December 2024	
Time	2.00 p.m.- 4.00 p.m.	
Departure Time	1.45 p.m.	
Participants	80 pax	40 pax
Location	Pantai 2 Stp No 1, Jalan Kampung Pasir 1, 59200, Pantai Dalam, Kuala Lumpur W.P	Lot 43, Jalan 7/17k, SS7, 47301, Kelana Jaya, Selangor.
Remarks	(i) Views: View 1 View 2 (ii) For site visit arrangement, the presentation will take place in a single session before the participants are divided into two groups for facility visit.	(i) Views: View 1 View 2

Introduction

Site 1: IWK Pantai 2 Sewage Treatment Plant (P2STP)

The P2STP is built with sustainability in mind, capitalising on renewable resources for energy and water to reduce wastage and pollution. It has a Green Building Index (GBI) silver rating.

A bio-gas generator converts the methane gases produced during the sludge treatment process to generate up to 700 kilowatts of auxiliary power. Together with solar panels installed atop the parking lots, it supplies 10 to 15 per cent of the plant's power needs.

Rainwater harvesting produces about 80 cubic metres of water a day for toilet flushing and landscaping, while a multi-stage filtration and reverse osmosis membrane system recycles bio-effluent into 2,460 cubic metres of treated water daily for plant operations.

The aquatic skylight over the underground passageway provides natural lighting for the space below with energy savings of up to 30 kilowatts a day, while the wastewater source heat pump facilitates heat exchange with effluent to generate a cooling load of 1,200 kilowatts, which drives the air-conditioning system for the administration building and community centre.

Figure 1.1: Bioeffluent pool provides natural light to the plant below

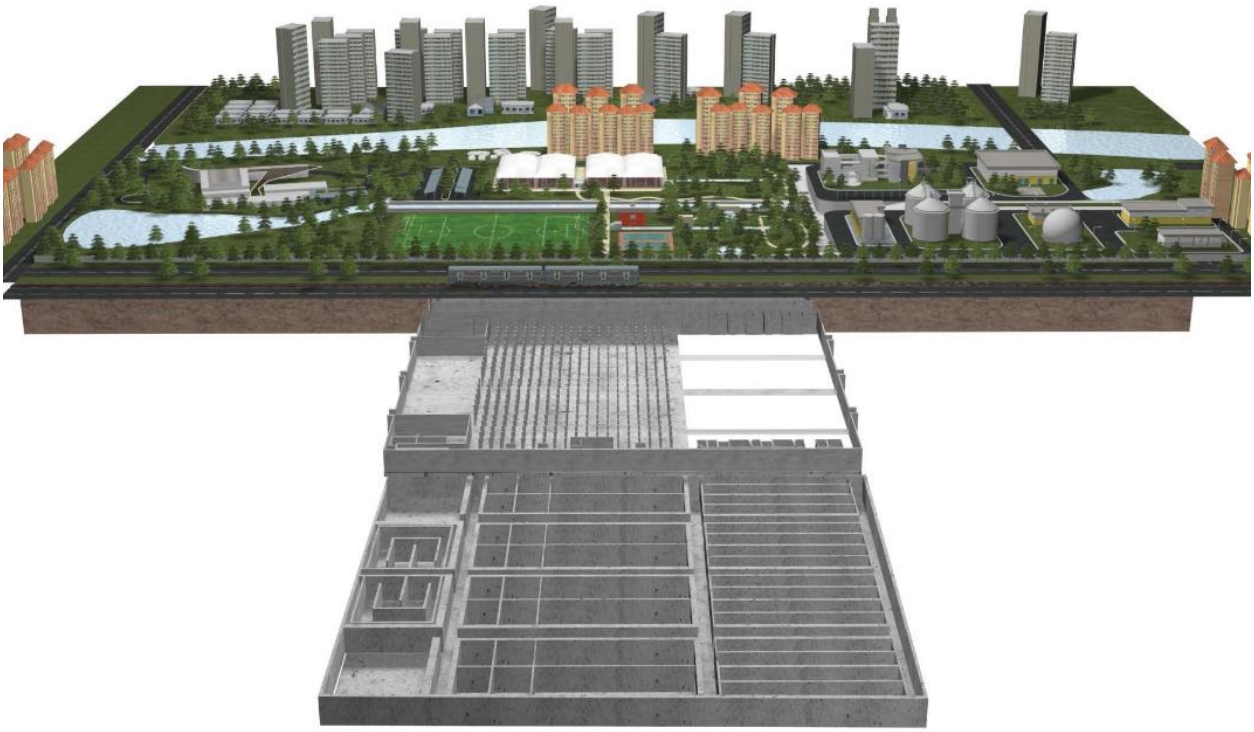

Figure 1.2: The fully underground multi-layered sewage treatment facility goes 17 metres deep

reference website

Site 2: Green Street Farm

Green Street Farm is an urban hydroponic farm providing 100% organic vegetables. They operate with a focus on sustainable and pesticide-free farming, aiming to make fresh food affordable and accessible to the local community. They are offering a range of fresh produce, homemade products.They also host occasional workshops on urban farming techniques such as aquaponics and hydroponics, contributing to local food education and sustainability efforts.

Figure 2.1: Sustainable farming techniques

reference website