

Technical Visit to Caritas Medical Centre

By Ir Andrew Yan

The technical visit to Wai Ming Block of Caritas Medical Centre (CMC) was held on 15 April 2016 with the participation of 10 members. Caritas Medical Centre was established in 1964. It is an acute general hospital providing a full range of acute, rehabilitation, ambulatory and community medical services to in-patients and out-patients for West Kowloon District.

The Phase 2 redevelopment project of CMC consisted of a new ambulatory and rehabilitation block, Wai Ming Block, with a total gross floor area of 43,500 sq.m and two connection bridges connecting the new block to existing administrative block and the Phase 1 Redevelopment, Wai Shun Block, which accommodating all acute services. Members visited various modernized facilities and renewable energy installation, such as the BIPV system and the solar power heating system. Besides these RE systems, an intelligent ventilation system with CO₂ concentration sensors was installed at the car park area such that the air exchange rate will be automatically adjusted according to CO₂ concentration to reduce electricity consumption.

The members then visited the compressed gas plant and the water cooling system of chiller plant. To improve energy efficient, water cooling towers, instead of air cooling system, are used for the chiller plant. The resident engineer explained the disinfection of cooling towers to prevent the spread of Legionnaires' disease. After that, members had a visit to in-patient ward to understand the latest ventilation requirement for the wards to prevent spreading of infectious disease.

The visit was followed by a guided tour to the security centre and the pneumatic tube plant room. To improve efficiency of samples and documents delivery, a computerized pneumatic tube delivery system was built to connect different wards and laboratories. With the help of this pneumatic tube delivery system, about 80% of manual delivery work could be reduced. The last visiting point was the CCSM room. CCMS room is the heart of the building. All E&M systems of the building and different ventilation systems can be monitored and operated there.



Group photo of participants and the representatives of Caritas Medical Centre