

Organisations Category

Project Owner (Public Sector)

Bronze Award

Highways Department,

the Government of the Hong Kong Special Administrative Region, China



Lift and Pedestrian Walkway System between Tai Wo Hau Road and Wo Tong Tsui Street, Kwai Chung

The innovative inclined lift system (the System) at Wo Tong Tsui Street, Kwai Chung is the first of this kind in Hong Kong's public works project which aims to enhance accessibility of the hilly area, thereby encouraging people to walk more and rely less on motorised transport. Since its commissioning, the System is very much welcomed by the locals for travelling to and from the hillside area at Wo Tong Tsui Street, making walking an integral part of Hong Kong's sustainable development.



Sustainable Best Practice 1

The inclined lift structure is designed to match with the profile of sloping ground. The low-rise nature of the structure would withstand less wind load, obviating the need for piled foundation. Instead, a more simple and economical raft foundation is adopted. In addition, an elevated walkway as a connection between the upper floor of the lift structure and the uphill area is no longer required. The construction cost is therefore reduced.

Sustainable Best Practice 2

A full enclosure design is adopted to make the System more robust. This allows the inclined lifts to be operated in all-weather conditions and could make the System more durable and resistant to wear and tear, reducing the demand for frequent replacement of lift components.



Sustainable Best Practice 3

In line with Government's policy to protect the environment and conserve energy, the System adopts mechanical ventilation in lieu of air-conditioning which reduces electricity consumption and carbon emissions. In addition, the lift trough features a balance mix of concrete walls, and glazing and louvre panels so that natural light can go inside the lift trough and lift car.