

Identify, Monitor and Reduce Solid Waste Entering Skips

About Cathay Pacific Services Limited (CPSL)

Cathay Pacific Services Limited ('CPSL') is a wholly-owned subsidiary of Cathay Pacific Airways. CPSL operates the latest air cargo facility in Hong Kong – Cathay Pacific Cargo Terminal ('CPCT'), serving airlines operating at Hong Kong International Airport.

CPCT is a HK\$5.9 billion infrastructure with a designed annual throughput of 2.6 million tonnes, increasing Hong Kong's air cargo capacity by 50 percent to 7.4 million tonnes per year. We provide best-in-class services with dedication and flexibility, sustaining the competitiveness of Hong Kong as the logistics hub of choice in Asia.

Innovation and passion are key traits that guide the dynamic team at CPSL. We serve our customers with enhanced efficiency, reliability and visibility, improving the customer experience and creating added value to help our customers grow their business.

Meanwhile, sustainability is one of the core management philosophies at CPSL. We have embedded best practices into every aspect of the operations, from the design of the Cathay Pacific Cargo Terminal to daily operational procedures, to achieve high environmental standards.

For more details on CPSL sustainable development
<https://www.cpsl.com.hk/en-us/About-CPSL/Sustainable-development>

Problem Statement

To identify, monitor and reduce specific solid waste types being disposed into waste skips at commercial and industrial buildings. Wooden pallets from cargo operations are the main waste type.

Aims

Swire Pacific Sustainable Development (SD) Fund Challenge Process, invites innovators to submit a new solution to be trialled with the intention of implementing and scaling to other sites with similar problems.

- Solution may include, but not limited to:
 - Dumping prevention
 - Behaviours change tools
 - Warning systems and sensors
 - Waste identification systems
 - IoT sensors

- Waste auditing
- Pallet upcycling and alternate end of life options
- End-to-end solutions encompassing all of the above
- CPSL does not own the wooden pallets or waste skips.
- The trial will likely be conducted in CPSL's operations at Hong Kong Airport.

Problem Background

The imported cargo handled in CPCT is loaded on wooden pallets in air transit but is transferred to road transit without the pallets. At this point, the wooden pallets become “waste” inside CPCT. Although there are designated locations for collection of the wooden pallets, they are often misplaced into general waste skips.

It is estimated that there are over 12,000 wooden pallets in good condition that can still be re-used annually. Others can be recycled. However, misplaced wooden pallets would most likely go to landfill.

Across Swire's portfolio of companies, the problem of unwanted waste entering waste skips in multiple places. A proven solution to the CPSL problem will be considered for scaling to other locations where the problem exists.