

- ABSTRACT -

供應鏈脫碳 - 行業最佳實踐與研發碳足跡工具組
Supply Chain Decarbonisation: Good Industry Practices and
Development of Carbon Footprint Toolkit

The need for decarbonisation is highlighted in the future development of the logistics and supply chain in the World Economic Forum. The transportation sector, comprising road, rail, air and marine transportation, is the second-largest carbon emitter worldwide. New measures and legislations on carbon emission are proposed by the government. The Hong Kong Stock Exchange has recently adopted international standards on environment, social and governance reporting, including carbon disclosure project and carbon reporting, and has considered raising the obligation level of companies to comply with the international standards.

However, most companies are still not fully complying with the standards. Carbon emission measurements have not been implemented in most of the logistics, freight forwarding, and transportation companies. The practitioners do not have the experience or knowledge to measure, audit, and report their carbon emission activities. As the existing literature mainly focuses on carbon calculation, it is necessary to further develop a novel carbon footprint toolkit that integrates carbon calculating, carbon auditing, and carbon reporting. This toolkit will support the development of green supply chain in the logistics and transportation operations and will equip students with the decarbonisation knowledge before they start their careers in the logistics industry. The project will benefit companies in the supply chain industry by providing them with the developed toolkit to cope with the environmental protection needs and government policies, and students will be able to learn about the importance of supply chain decarbonisation through seminars, workshops and toolkit development.

