



# LCMP Quarterly

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## Success Story - Dongguan Zhang Mu Tou Shing Hing Plastic Manufacturing Ltd.

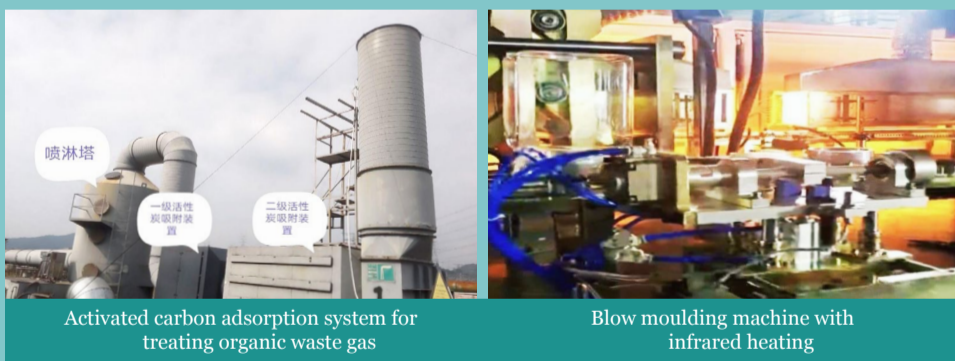
### Is “going green” a trend or a responsibility?

For Dongguan Zhang Mu Tou Shing Hing Plastic Manufacturing Ltd. (Shing Hing Plastic), the answer is clear: Sustainability is both a responsibility and a commitment.

Founded in 1995, Shing Hing Plastic specialises in manufacturing plastic educational toys. Through sustainable product design, the company produces high-quality, eco-friendly animal toys that meet the highest safety standards for children’s play items.

Mr Calvin Wu, the company’s managing director, believes that operations can be run sustainably and in a compliant, safe and healthy low-carbon environment. As part of their sustainable vision, Shing Hing Plastic continuously measures their carbon emissions and implements systematic data-driven emissions management. High-energy-consuming processes and facilities are either being optimised or replaced with new technologies and equipment, and the company is adopting renewable energy and enhancing their procurement of sustainable materials. These measures will allow them to comply with international ESG standards, achieve their carbon reduction goals and become a sustainable enterprise – the ultimate goal of Shing Hing Plastic’s sustainable vision.

The company joined WWF-Hong Kong’s Low Carbon Manufacturing Programme (LCMP) in 2022 and, through continual efforts and incremental improvements, they earned the LCMP Gold Label in 2026. Shing Hing Plastic’s best practices include:



**1. Installing a smart energy monitoring system** - This system provides real-time monitoring for equipment and facilities with high energy consumption rates. This allows for timely problem detection and immediate corrective action, identification of equipment that consumes too much energy and investigation of energy wastage through data analysis. The system can reduce overall energy consumption by 5-15%.

**2. Replacing traditional light tube-heated blow moulding machines with infrared heating** - Producing blow-moulded products requires both blow moulding and bottle preforming machines. The company’s two traditional light tube-heated blow moulding machines were replaced with an automated machine using infrared heating; while the two bottle preforming machines were replaced by one injection moulding machine with a shared preform mould and a robotic arm for efficient loading. This upgrade delivers a 40% cut in energy consumption while boosting production efficiency.

**3. Switching organic waste gas treatment from ultraviolet degradation to activated carbon adsorption** - The traditional UV degradation process for organic waste gas often produces inadequate treatment, consumes large amounts of energy and increases fire safety risks. Adopting activated carbon adsorption has improved treatment efficiency and safety and reduced electricity consumption by about 220,000 kWh annually.

**4. Installing a distributed solar photovoltaic power generation system** - The company installed a rooftop 90 kW distributed solar PV system that generates approximately 100,000 kWh of electricity annually. This reduces yearly carbon emissions by about 62 tonnes and advances the company’s renewable energy transition.

## SCOPE 3 - UNLOCK

### SCALING SUPPLY CHAIN CLIMATE ACTION INITIATIVE



WWF-Hong Kong is celebrating the start of the LCMP’s 16th year by scaling up this highly successful programme with the launch of the “Scope 3 – UNLOCK Scaling Supply Chain Climate Action Initiative”. This upgrade helps companies measure, disclose and reduce Scope 3 emissions across their operations and supply chains, extending climate action beyond Scope 1 and 2 emissions to address the largest portion of corporate carbon footprints.

Several LCMP participants have already begun collecting Scope 3 data, which includes emissions from materials purchased from suppliers and upstream transportation, reflecting a growing focus on managing their scope 3 carbon footprints.

Scope 3 UNLOCK will enhance companies’ understanding of Scope 3 emissions and enable collaboration with suppliers to prepare for critical challenges ranging from credible reporting to data gaps and inconsistent internal processes. The initiative will provide tools adapted from proven LCMP and LOOP<sup>PLUS</sup> experiences, along with collaborative frameworks, capacity-building support, and progress and peer company sharing.

The initiative will create shared action through pledges, self assessments, workshops, and a learning and resource hub, while scaling up collaboration along the value chain to unlock supplier-specific activity-based emissions insights. Meanwhile, the LCMP will continue to strengthen ESG practices by acting as a proven framework for reducing emissions from manufacturing facilities.

Scope 3 UNLOCK follows a four-step approach:

- 1. Activate** – Commit to Scope 3 action by completing a pledge.
- 2. Diagnose** – identify priorities and readiness through a self-assessment checklist.
- 3. Build Capacity** – Access workshops and the resource hub to strengthen capabilities.
- 4. Process Review** – Share learning across companies, review progress and maintain engagement to produce collective impact.

Joining Scope 3 UNLOCK will help enterprises enhance their understanding of Scope 3 emissions, allow them to build strong partnerships and stand out from their competitors, and contribute to Hong Kong’s pathway to net-zero emissions by 2050.

For more information about Scope 3 UNLOCK, please scan this QR code:



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