



## MEDIA FACTSHEET

### **The Public Hygiene Council's Learning Journey for Corporate Action Network (CAN) Members**

#### ***Eco-Innovation Tour Hosted by Gain City – A Key Member of CAN***

#### **Concept of CAN Learning Journey**

1 The Public Hygiene Council (PHC) organises Learning Journeys for its Corporate Action Network (CAN) members, to promote knowledge sharing and best practices in environmental stewardship. Today, Gain City – a key member of CAN – is showcasing its innovative sustainability practices and environmental initiatives, demonstrating how corporations can lead in environmental stewardship.

#### **About Gain City – Singapore's Largest Consumer Electronics Retailer**

2 As one of Singapore's most trusted homegrown appliance retailers for over 40 years, Gain City exemplifies strong corporate citizenship through its commitment to environmental stewardship. Its journey with PHC began in 2022 with the 'Feed the Trashemon Bin' initiative, followed by it becoming an SG Clean Day Partner in 2023. As a founding member of PHC's Corporate Action Network in 2024, Gain City has consistently demonstrated admirable leadership in sustainability and public cleanliness.

3 Gain City's Sungei Kadut Megastore serves as a showcase of corporate environmental innovation, featuring e-waste recycling facilities, integrated food waste management systems, renewable energy solutions, and public education initiatives. Beyond retail, Gain City has integrated PHC's Keep Singapore Clean message across its operations, through environmental awareness displays, staff training, and multi-platform public hygiene messaging across its 11 showrooms located islandwide.

#### **Highlights of the Learning Journey**

4 This tour showcases Gain City's commitment to environmental sustainability, through two key innovative solutions that are transforming retail operations:

## A. Integrated Waste Management Solutions

Participants will experience first-hand Gain City's comprehensive approach to waste management, featuring its food waste processing system that converts up to 400kg of daily food waste into compost, alongside its pioneering air-conditioner recycling facility that achieves an impressive >90% material recovery rate. This facility demonstrates how retailers can take the lead in responsible e-waste management and circular economy practices.

## B. Sustainable Energy and Green Technology

The tour highlights Gain City's investment in clean energy solutions, anchored by its extensive rooftop solar installation of 724 panels that power 10% of the building's operations. Participants will explore its integrated green technology ecosystem, including EV charging infrastructure, sustainable building features, and real-time energy monitoring systems that showcase the practical implementation of environmental solutions in retail operations.

## Programme

5 The Learning Journey comprises six key segments:

<b>11:00 - 11:10</b>	Welcome and Introduction	<ul style="list-style-type: none"><li>• Welcome remarks by PHC Chairman and Gain City Management, including introduction to sustainability journey</li><li>• Comprehensive safety briefing and tour logistics arrangements</li></ul>
<b>11:10 - 11:25</b>	Food Waste Management Tour	<ul style="list-style-type: none"><li>• Live showcase of automated food waste processing technology and waste-to-compost conversion process</li><li>• Detailed exploration of best practices in F&amp;B waste reduction and management strategies</li></ul>
<b>11:25 - 11:55</b>	E-Waste Facility Visit	<ul style="list-style-type: none"><li>• Behind-the-scenes tour of air-conditioner recycling operations and component extraction process</li><li>• Technical demonstration of achieving 90% material recovery rate and sustainable e-waste management</li></ul>

11:55 - 12:15	Solar Energy Showcase	<ul style="list-style-type: none"> <li>• Access to rooftop solar panel installation with demonstration of clean energy generation</li> <li>• In-depth overview of building sustainability features and energy efficiency measures</li> </ul>
12:15 - 12:25	Sustainability Dashboard Review	<ul style="list-style-type: none"> <li>• Live demonstration of building's integrated environmental management systems and energy monitoring</li> <li>• Real-time analysis of sustainability metrics and environmental impact achievements</li> </ul>
12:25 - 12:30	Wrap-up	<ul style="list-style-type: none"> <li>• Interactive Q&amp;A session with sustainability team and sharing of key insights</li> <li>• Networking opportunity and closing remarks from PHC and Gain City representatives</li> </ul>

## Learning Journey Pit Stops

Food waste processor machine	<p>Gain City's food waste dewatering machine is tailored to process organic waste, such as kitchen waste, fruit and vegetable waste.</p> <p>The company's comprehensive approach to food waste disposal ensures effective management while harnessing valuable resources from the waste stream. With up to 80% dehydration rate, the machine's daily limit of 400kg food waste from Gain City's F&amp;B department can be turned into 80kg of compost. This compost is then used in indoor vegetable cultivation.</p> <p><b>Digester</b></p> <p>1. Crushing The collected food waste is processed in a double shaft shredder, effectively breaking it down into smaller particles. This reduces the waste volume and prepares the material for further processing. At this stage, water is injected to remove excess oil and salt from the general food waste.</p> <p>2. Separation with food waste dewatering machine Next, the material undergoes separation into solid and liquid</p>
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	<p>components. This crucial step enhances the resource recovery process by isolating valuable components for further refinement. Post-dewatering, the material undergoes fermentation in the Digester, utilising live microorganisms known as microbes, which break down the small food particles through aerobic fermentation, transforming them into compost.</p>
	<p><b>Water Tank</b></p> <p>2. Wastewater treatment All wastewater is transported to a water tank for further filtering and purification. Membrane filters remove particles, and with the assistance of microbes and charcoal in the water tank, the water is purified to a level safe for drainage.</p> <p><b>Air Scrubber</b></p> <p>3. Air treatment Wet air scrubbers with advanced packed tower technology provide optimal odour control. The engineered tower packing media ensures efficient wet scrubbing by maintaining liquid distribution throughout the packed bed. This design makes Gain City's odour control air scrubbers highly effective. With aerobic fermentation, no synthesis gas or methane gas is generated, only CO<sub>2</sub> and H<sub>2</sub>O, which are safe to release into the atmosphere.</p>
Air-conditioner recycling	<p>Gain City's air-conditioner recycling process can recover more than 90% of components. There is also a system that purifies refrigerant gases from compressors for reuse.</p> <p>At the start, air-conditioner units are dismantled - there are compressors and fan coils. These are further separated by parts, such as the printed circuit board, metal components, insulation pipes, etc.</p>
Solar panels	<p>Solar panels on Gain City Megastore's rooftop contain 724 solar PV modules, powering around 10% of the total energy consumption of the entire building.</p>

## Moving Forward Together

6 This Learning Journey exemplifies PHC's commitment to fostering knowledge sharing and collaboration among CAN members. Through Gain City's showcase of innovative environmental solutions, from waste management to renewable energy, participants will gain

valuable insights into implementing sustainable practices for their own operations.

7 As Singapore continues its journey towards becoming a cleaner and more sustainable nation, such corporate partnerships demonstrate how businesses can play a pivotal role in environmental stewardship while maintaining operational excellence. This initiative serves as a model for future collaborations between PHC and its CAN members, inspiring more organisations to adopt sustainable practices and contribute to Singapore's cleanliness movement.

8 For more information about PHC's Corporate Action Network and upcoming Learning Journeys, please contact: [www.go.gov.sg/joincan](http://www.go.gov.sg/joincan).

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### **About Public Hygiene Council**

The Public Hygiene Council (PHC) was formed in 2011 to help raise standards of public hygiene and cleanliness in Singapore. The Council, comprising representatives from the public and private sectors, galvanises and leads ground-up community and industry initiatives to help keep Singapore clean. PHC also complements the Government's education and enforcement efforts, to maintain high standards of public hygiene and cleanliness.

### **About Gain City - A Member of PHC's Corporate Action Network**

Established in 1981, Gain City has grown to become Singapore's largest homegrown consumer electronics retailer with 11 showrooms islandwide. Beyond retail excellence, Gain City leads in corporate sustainability through innovative environmental solutions in e-waste management, renewable energy, and green technology. As a founding member of PHC's Corporate Action Network, Gain City's flagship Megastore at Sungei Kadut demonstrates how businesses can successfully integrate environmental stewardship into operations, while engaging the community in Singapore's cleanliness movement.