

**List of Carbon Reduction Measures to be adopted by the 17 Key Strategic Partners (Tentative; For reference only) –**

No.	Key Strategic Partners	Upcoming Carbon Reduction Measures in the Future
1.	Business Environment Council	<p><u>Innovative Energy Saving Technologies</u></p> <ul style="list-style-type: none"> <li>- Install additional photovoltaic panels on the roof of BEC office Building.</li> <li>- Apply iPaint and iFilm to the roof and west-faced windows of BEC Building</li> </ul> <p><u>Green Transport</u></p> <ul style="list-style-type: none"> <li>- Participation in Cathay's CSAF Programme, pledging to reduce carbon emissions by purchasing emissions reduction claims on our business air travel.</li> </ul>
2.	Cathay Pacific	<p><u>Food Waste</u></p> <ul style="list-style-type: none"> <li>- With a revolutionised system of warewash machines, food segregation belt and unique food container, food waste from the sky will be directed to OPARK</li> </ul> <p><u>Green Transport</u></p> <ul style="list-style-type: none"> <li>- Adopt new energy in the air (Sustainable Aviation Fuel) in the air and renewable diesel (hydrotreated vegetable oil) on the ground</li> </ul> <p><u>Publicity and Education &amp; Others</u></p> <ul style="list-style-type: none"> <li>- Promote a more sustainable aviation travel options with the use of SAF</li> <li>- Expand the scope of Public Education in 2025 of Phasing out single-use plastics</li> </ul>
3.	Construction Industry Council - Zero Carbon Park	<p><u>Innovative Energy Saving Technologies</u></p> <ul style="list-style-type: none"> <li>- Cooling paint: iFilm application to lower the room temperature for energy saving</li> </ul> <p><u>Publicity and Education &amp; Others</u></p> <ul style="list-style-type: none"> <li>- Microalgae exhibit at CIC-ZCP's exhibition centre to purify air, capture carbon dioxide, and release oxygen.</li> </ul>
4.	City University of Hong Kong	<p><u>Innovative Energy Saving Technologies</u></p> <ul style="list-style-type: none"> <li>- Install about 2,000 bifacial solar panels on campus buildings.</li> <li>- Apply i2Col passive radiative cooling technology at strategic locations to enhance solar performance</li> </ul>

5.	Citybus	<u>Green Transport</u> <ul style="list-style-type: none"> <li>- Launch of zero-emission transformation campaign, #MissionZero to expand the use of electric and hydrogen buses</li> </ul>
6.	CLP Power Hong Kong	<u>Innovative Energy Saving Technologies</u> <ul style="list-style-type: none"> <li>- Subvented Organisation Energy Saving Improvement Scheme: To provide one stop energy services (e.g. free energy audits and recommendations for energy efficiency improvements) to subvented organisations</li> <li>- Inverter Air Conditioner Replacement Subsidy Scheme: Replace traditional window-type air conditioners with inverter models for households</li> <li>- Building Electrical Safety Advisory Service</li> </ul>
7.	Hong Kong Baptist University	<u>Innovative Energy Saving Technologies</u> <ul style="list-style-type: none"> <li>- Adopt green building standards for the design and construction of the forthcoming Jockey Club Campus of Creativity and pursue BEAM Plus certifications.</li> </ul> <u>Green Transport</u> <ul style="list-style-type: none"> <li>- Install EV chargers at new carpark</li> </ul> <u>Publicity and Education &amp; Others</u> <ul style="list-style-type: none"> <li>- Install energy performance dashboards to raise awareness of responsible consumption</li> <li>- Implement an incentive-based smart platform on a mobile app to encourage student engagement in energy and water conservation</li> </ul>
8.	Hong Kong Metropolitan University	<u>Innovative Energy Saving Technologies</u> <ul style="list-style-type: none"> <li>- AI system to be incorporated to the chiller control system to optimise energy consumption</li> <li>- Adopt Permanent Magnet Synchronous Motor in MVAC motors</li> <li>- Adopt LED technology on the lighting fitment in the lighting installation system</li> </ul>
9.	Hysan Development Company Limited	<u>Innovative Energy Saving Technologies</u> <ul style="list-style-type: none"> <li>- Use the power of AI to optimise and automate HVAC energy patterns, involving relevant setpoints and air handling units, etc.</li> </ul> <u>Food TranSmarter</u>

		<ul style="list-style-type: none"> <li>- Study the feasibility of installing the Food TranSmarter at another 2 buildings within their portfolio</li> </ul>
10.	MTR	<p><u>Innovative Energy Saving Technologies</u></p> <ul style="list-style-type: none"> <li>- Large-scale chiller replacement project at stations and depots</li> <li>- Conduct energy audit for the common areas and develop energy saving plan by 2025</li> <li>- Engage and assist tenants in another 4 shopping malls in identifying energy saving measures</li> </ul> <p><u>Waste Reduction</u></p> <ul style="list-style-type: none"> <li>- Target to save 5% of water use in our shopping malls in 2025 with 2018 level as baseline</li> </ul> <p><u>Green Transport</u></p> <ul style="list-style-type: none"> <li>- Install over 200 additional EV charging stations across our office buildings</li> <li>- Target to introduce at least 30 electric buses by the end of 2026 and install additional charging facilities</li> <li>- Target to add over 1,400 bike parking spaces around stations and managed properties by 2025</li> </ul> <p><u>Publicity and Education &amp; Others</u></p> <ul style="list-style-type: none"> <li>- Aim to achieve a minimum of BEAM Plus Gold accreditation for 100% of our future new stations and new residential development projects</li> </ul>
11.	Ocean Park	<p><u>Food TranSmarter</u></p> <ul style="list-style-type: none"> <li>- Installed a TranSmarter in Ocean Park recently, targeting to expand food waste collection in the Park, both Front of House in selected food outlets, as well as Back of House in staff canteens and from animal feed prep</li> </ul> <p><u>Food Waste</u></p> <ul style="list-style-type: none"> <li>- Install Smart Recycling Bin in OP to promote awareness amongst the Park's guests and to serve nearby Southern District community</li> </ul>

12.	Sino Group	<p><u>Innovative Energy Saving Technologies</u></p> <ul style="list-style-type: none"> <li>- Expand the number of properties adopting AI-based Chiller Plant Optimisation System</li> <li>- Expand the installation of photovoltaic panel system at managed properties</li> </ul> <p><u>Green Transport</u></p> <ul style="list-style-type: none"> <li>- Expand the coverage of EV charging stations at our managed properties</li> </ul>
13.	Sun Hung Kai Properties	<p><u>Innovative Energy Saving Technologies</u></p> <ul style="list-style-type: none"> <li>- Over 40 Kai Shing sites targeting to adopt innovative energy saving technologies</li> <li>- AI application for air conditioning system: upgrading central chiller system</li> </ul> <p><u>Food TranSmarter</u></p> <ul style="list-style-type: none"> <li>- Metroplaza and YOHO MALL is planning to implement Food TranSmarter.</li> </ul> <p><u>Food Waste Reduction</u></p> <ul style="list-style-type: none"> <li>- Adopt Food Waste Recycling Bins to 40 sites.</li> </ul> <p><u>Waste reduction</u></p> <ul style="list-style-type: none"> <li>- Adopt Glass Container Recycling Points for 10 sites</li> <li>- Adopt Recycling of Plastic Beverage Containers and Cartons, at 10 sites</li> </ul> <p><u>Publicity and Education &amp; Others</u></p> <ul style="list-style-type: none"> <li>- Adopt Glass Container Recycling Charter to 50 sites</li> <li>- Adopt Charters on Energy Saving and Waste Reduction to 30 sites</li> </ul>
14.	The Chinese University of Hong Kong	<p><u>Innovative Energy Saving Technologies</u></p> <ul style="list-style-type: none"> <li>- Solar on Campus – Installing more solar photovoltaic systems across the entire campus</li> </ul> <p><u>Food TranSmarter</u></p> <ul style="list-style-type: none"> <li>- Expand Food TranSmarter’s processing capacity is set to transform food waste management on campus</li> </ul> <p><u>Waste Reduction</u></p> <ul style="list-style-type: none"> <li>- Introduce Reverse Vending Machines to champion waste reduction</li> </ul> <p><u>Green Transport</u></p> <ul style="list-style-type: none"> <li>- Enhance electric vehicle (EV) charging facilities on campus, facilitating a seamless transition to EVs</li> </ul>

15.	The Education University of Hong Kong	<u>Innovative Energy Saving Technologies</u> <ul style="list-style-type: none"> <li>- Replace EC plug fan AHUs and LED lighting for the largest Lecture Theatre</li> <li>- Replace window type air conditioners with Grade 1 energy label units for a student hall</li> <li>- Apply radiative cooling coating to rooftop</li> <li>- Install additional solar panels on campus</li> </ul> <u>Food Waste Reduction</u> <ul style="list-style-type: none"> <li>- Set up smart recycling bins on campus</li> </ul> <u>Green Transport</u> <ul style="list-style-type: none"> <li>- Install EV chargers in carpark</li> </ul>
16.	The Hong Kong Jockey Club	<u>Innovative Energy Saving Technologies</u> <ul style="list-style-type: none"> <li>- Use machine learning to optimize Heating, Ventilation, and Air Conditioning operations based on real-time data, occupancy patterns, and weather forecasts</li> <li>- Reflective coatings that reduce heat absorption to the roof</li> <li>- Permanent Magnet Synchronous Motor for AC application - Efficient motors that provide higher efficiency. The fan coil units will be considered for upgrade to Permanent Magnet Synchronous Motors</li> </ul>
17.	KMB	<u>Green Transport</u> <ul style="list-style-type: none"> <li>- Augment electric buses to the bus fleet, bolstered by the Government's ample support</li> <li>- Explore opportunities for other commercial electric vehicles to utilize the charging facilities within the depots when they are idle at daytime</li> </ul>