

Carbon Neutrality Partnership

Aspects of Decarbonisation	How Your Organisation Could Help (Examples for Reference)	Your Organisation's Target / Plan / Action <i>(for Input)</i>
Overall: Decarbonisation Target		
Setting a target for total carbon emissions	<ul style="list-style-type: none"> - set a carbon neutrality target with a timeline - set carbon emissions reduction target with a timeline 	<p>Initiatives in Planning and Construction of New Public Housing:</p> <p>To continuously apply Carbon Emission Estimation at the design stage of new development projects, covering carbon emission in construction stage and throughout the life cycle of the building.</p>
Green Economy		
Green procurement	<ul style="list-style-type: none"> - set green procurement policy and standards - procure energy efficient appliances (such as those with Grade 1 energy labels under the Mandatory Energy Efficiency Labelling Scheme) 	<p>Initiatives in Planning and Construction of New Public Housing:</p> <p>To continuously review and implement the Environmental Procurement Policy on Green Procurement, such as:</p> <ul style="list-style-type: none"> - to explore the incorporation of more green elements in the specifications for new works; - to adopt green construction methods, materials and provisions in new works projects.

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		<p>Initiatives in Existing Housing Estates:</p> <p>To support the purchase of energy-efficient products, split room coolers purchased shall be of Energy Efficiency Grade 1 or Grade 2 under Mandatory Energy Efficiency Labelling Scheme (MEELS).</p> <p>Initiatives in Office at Work:</p> <p>To procure energy efficient appliances (such as those with Grade 1 or Grade 2 energy labels under the MEELS).</p>
Green finance	- utilise green financing instrument to raise fund	Not applicable
Net-Zero Electricity Generation		
Developing renewable energy	<ul style="list-style-type: none"> - set a renewable energy adoption target with a timeline - install renewable energy generating equipment (e.g. solar panel, solar hot water system) where possible - participate in the Feed-in Tariff Scheme - purchase Renewable Energy 	<p>Initiatives in Planning and Construction of New Public Housing:</p> <p>To implement grid-connected photovoltaic (PV) system for electricity generation in new public rental housing (PRH) projects.</p> <p>Initiatives in Existing Housing Estates:</p> <p>To install PV systems at suitable existing PRH blocks where possible.</p>

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	Certificates	To join the Feed-in Tariff Scheme for existing and newly installed grid-connected PV systems.
Energy Saving and Green Buildings		
Energy saving targets	- set electricity usage reduction target with a timeline	<p>Initiatives in Planning and Construction of New Public Housing:</p> <p>To reduce the average energy consumption of building services installations in communal areas of domestic blocks designed within the year to not exceeding 23.5kWh/m²/Annum.</p> <p>Initiatives in Existing Housing Estates:</p> <p>For residential buildings: to maintain ISO50001 certification for energy management system in communal area of all PRH domestic blocks; to set target of annual energy consumption of building services installations in communal areas of existing domestic blocks under ISO50001 framework; and to conduct annual management energy review to ensure continual improvement in energy performance.</p> <p>Initiatives in Office at Work:</p> <p>To set annual energy reduction target for HA Headquarters (HAHQ) offices with reference to the Government's latest Green Energy Target.</p>

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Enhancing energy efficiency performance of buildings	<ul style="list-style-type: none"> - target for green building certification (e.g. BEAM Plus) at Platinum level - conduct green building certification for all new buildings - select existing buildings for green building certification - achieve energy efficiency performance above the statutory requirements - procure energy efficient equipment and switch them off when not in use - adopt smart building technologies to reduce electricity consumption and enhance energy efficiency (e.g. smart technology to enhance energy efficiency in air-conditioning system) 	<p>Initiatives in Planning and Construction of New Public Housing:</p> <p>To implement BEAM Plus specification clauses in all new works projects, and register projects, which require GFA concessions, for assessment and certification aiming at Gold rating.</p> <p>To align the design of new works projects requiring GFA concession with the prescribed RTTV.</p> <p>To provide a “smart meter monitoring and information display system” for electricity, gas and fresh water consumption at lobbies of new domestic blocks.</p> <p>To meet energy efficiency requirements according to the BEC in new works projects.</p> <p>To implement energy saving measures at public areas of domestic blocks of new works projects, such as –</p> <ul style="list-style-type: none"> - to implement two-level lighting system for barrier free access; - to adopt LED bulkhead lights and LED exit signs and directional signs; - to adopt gearless lifts and permanent magnet synchronous motors; and - to adopt regenerative power for lift systems using motors with power rating over 8kW.

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		<p>Initiatives in Existing Housing Estates:</p> <p>To support the purchase of energy-efficient products and services, implement energy enhancement initiatives during the operation and maintenance of all central air-conditioning plants to achieve energy conservation purposes.</p> <p>To support the use of smart building technologies for energy saving, Building Management System (BMS) was installed for central air-conditioning plant.</p>
<p>Greater use of energy management tools</p>	<ul style="list-style-type: none"> - conduct energy audit and implement identified energy management opportunities - conduct retro-commissioning 	<p>Initiatives in Existing Housing Estates:</p> <p>To conduct energy audit for commercial premises under HA's purview in accordance with the statutory regulations.</p> <p>To conduct retro-commissioning plan for commercial premises with central air-conditioning plant under HA's purview with the first batch to be completed by 2026.</p> <p>Initiatives in Office at Work:</p> <p>To conduct energy audit for HA's office buildings, such as HAHQ and Lung Cheung Office Block, in accordance with the statutory regulations.</p>

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Construction / Work sites	<ul style="list-style-type: none"> - adopt Modular Integrated Construction (MiC) as appropriate - recycle construction wastes - electrify diesel-run equipment in construction sites or other works areas adopt low carbon construction (e.g. prefabricated construction methods, low carbon construction materials) 	<p>Initiatives in Planning and Construction of New Public Housing:</p> <p>To adopt green construction methods, materials and provisions in new works projects, such as:</p> <ul style="list-style-type: none"> - to widen the use of precast concrete components (e.g. precast lift shaft, structural wall, semi-precast slabs, etc.) and also volumetric precast elements; - to adopt MiC in selected projects; - to use FSC timbers in temporary works; - to use softwood doors and Water Efficiency Labelling Scheme registered plumbing fixtures; and - to specify the use of re-cycled materials (e.g. Ground Granular Blast Furnace Slag and Pulverized Fuel Ash to replace cementitious content in concrete, recycled aggregates, rock fill, sub-base materials, recycled glass paver, etc.) for construction.
Development of district cooling system	<ul style="list-style-type: none"> - adopt high efficiency chillers 	<p>Initiatives in Planning and Construction of New Public Housing:</p> <p>To incorporate district cooling system in new works projects if applicable.</p>

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Green Transport		
Zero carbon emissions from transport	<ul style="list-style-type: none"> - equip parking spaces with electric vehicle charging provision, preferably with a target and a timeline 	<p>Initiatives in Planning and Construction of New Public Housing:</p> <p>To install electric vehicle (EV) charging facilities in car parks of all new estates.</p> <p>Initiatives in Existing Housing Estates:</p> <p>Had collaborated with the power companies to install EV charging facilities at hourly private car (PC) parking spaces in some existing HA car parks.</p> <p>To install EV chargers at monthly PC parking spaces in existing car parks subject to demand and technical feasibility.</p> <p>To install additional medium chargers (MCs) at hourly PC parking spaces in existing car parks and gradually install more MCs in suitable car parks subject to feasibility and demand.</p>
Phasing out of fuel-propelled and hybrid vehicles progressively	<ul style="list-style-type: none"> - electrify the corporate fleet, preferably with a target and a timeline - adopt low carbon logistics planning and delivery with 	Not applicable

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	technology to reduce carbon footprint	
Maintaining a public transport system with railway as the backbone	- encourage employees to use public transport	Not applicable
Waste Reduction		
Promoting waste reduction and recycling	<ul style="list-style-type: none"> - support the implementation of municipal solid waste charging (e.g. not to allow bulk-purchasing “designated garbage bags” and distributing them to tenants) - promote waste separation and recycling in commercial premises and residential estates with the set-up of centralised “recycling corners” - promote food waste recycling and participate in food waste 	<p>Initiatives in Existing Housing Estates:</p> <p>Has been collaborating with Environmental Protection Department (EPD) to conduct the trial of municipal solid waste (MSW) charging in PRH estates in phases since 2018 to enable estate tenants to get prepared for the implementation of MSW charging. Phase III of the trial is being implemented and Phase IV will be kicked off in the fourth quarter of 2022 tentatively.</p> <p>Has been promoting reduction and separation of waste at source by implementing the Source Separation of Domestic Waste Programme in all PRH estates, and setting up recycling facilities and providing recycling bins/boxes for collecting different kinds of waste recyclable materials at the</p>

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	collection programme	<p>common areas of PRH estates.</p> <p>Has conducted various scheme with EPD on waste reduction and recycling initiatives including Collection and Recycling Services of Plastic Recyclable Materials in 3 districts covering 63 PRH estates and the Installation of Reverse Vending Machines at 3 PRH estates which will be expanded to cover about 19 estates in 2022.</p> <p>In collaboration with EPD, a total of 18 shopping centres /wet markets of the HA have joined the food waste collection trial in phases starting from July 2018 and a trial of using smart bin to collect food waste has been launched in a PRH estate in early December 2021.</p> <p>Initiatives in Office at Work:</p> <p>HAHQ has joined Programme on Source Separation of Commercial and Industrial Waste organised by EPD since 2012.</p>
Controlling the use of single-use plastics	<ul style="list-style-type: none"> - set a plan for minimising the use of single-use plastics, preferably with a target and a timeline - reduce the use of single-use plastic packaging 	<p>Initiatives in Existing Housing Estates:</p> <p>(a) Theme - Plastic-free Redemption Program for Domain & other HA's Shopping Centre.</p> <p>- Target – Eateries shops of Domain and some selected HA's Shopping</p>

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	<ul style="list-style-type: none"> - request on-site caterers and food business tenants to use reusable and durable cutleries and food containers for eat-in customers, and avoid distributing disposable plastic tableware for takeaways - install filtered water dispensers to reduce the use of plastic water bottles - offer single-use toiletries on request only - avoid the use of disposable plastic umbrella bags and install umbrella drying facilities 	<p>Centre and the customers for takeaways.</p> <ul style="list-style-type: none"> - Program – Encourage those eateries and customers for takeaway to participate the program with an aim to reduce the use of disposable plastic cutleries. Under this program, takeaway customers will be given a stamp if they opt not to get disposable plastic cutleries for their takeaways meal. Having collected a certain number of stamps, they may redeem a gift for praising their support of environment protection. - Tentative Timeline – from July to October 2022. <p>(b) Avoid the use of disposable plastic umbrella bags.</p> <ul style="list-style-type: none"> - No disposable plastic umbrella bags has been provided in Domain and Yau Lai Shopping Centre since 2020 and is on-going. <p>Initiatives in Office at Work:</p> <p>On-going practice of not providing disposable plastic umbrella bags in HAHQ, HA Customer Service Centre, Lung Cheung Office Block and other out-stationed HA offices.</p>