

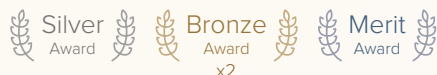


ENVIRONMENTAL PERFORMANCE

Awards

Environmental Awards and Recognition

4 Considerate Contractors Site Award



3 Outstanding Environmental Management and Performance Award



1 2021 Hong Kong Awards for Environmental Excellence



7 The Hong Kong Green Organisation Certification Scheme

Wastewi\$e Certificate



Energywi\$e Certificate



3 Hong Kong Green Awards 2022



Considerate Contractors Site Award (CCSA) and Outstanding Environmental Management and Performance Award (OEMPA)

We have been taking an active role in promoting safety and environmental management practices by participating in various campaigns such as the CCSA Scheme, which was jointly organized by the Development Bureau and Construction Industry Council to recognise construction sites with good site safety and environmental performance, as well as considerate attitude towards the neighborhood and the public.

In 2022/23, all our 10 eligible maintenance contracts (100%) and 22 out of 30 eligible new works contracts (73%) participated in the CCSA Scheme. During the year, our construction contracts had received four CCSA and three OEMPA awards, including one Silver, two Bronze and one Merit Prizes from CCSA, and one Bronze and two Merit Prizes from OEMPA. Furthermore, two of our subcontractors received the Model Subcontractor Award, including one Bronze and one Merit Prizes.



Winner of CCSA (New Works) Silver Prize and OEMPA Merit Prize

Contract No. HY/2018/02
Central Kowloon Route – Kai Tak East



Winner of CCSA (New Works) Bronze Prize and OEMPA Bronze Prize

Contract No. HY/2020/07
Widening of Castle Peak Road between Kwun Tsing Road and Hoi Wing Road



Winner of CCSA (New Works) Bronze Prize and OEMPA Merit Prize

Contract No. HY/2014/20
Central Kowloon Route – Yau Ma Tei West



Winner of CCSA (Repair, Maintenance, Alteration and Addition) Merit Prize

Contract No. 05/HY/2018
Management and Maintenance of Expressways and High Speed Roads in New Territories, Kowloon East and Hong Kong Island 2019 – 2025

OEMPA Bronze Award

OEMPA Bronze Award was granted to Contract No. HY/2020/07 for the good environmental performance. It was the first construction site in Hong Kong using Modular Integrated Construction (MiC) method for the construction of lift tower, lift car and accessories. MiC can effectively minimize construction waste generated on site and reduce dust and noise nuisance to the surrounding environment when compared with the conventional construction method. In addition, a patented retractable noise barrier was adopted on site which could reduce the noise level by up to 27 dB(A). Moreover, low carbon construction machines and materials such as “Electrical Breaking Robot” and green concrete certified under "CIC Green Product Certification" scheme were used to reduce carbon emission.



Bronze Award
Outstanding Environmental Management
and Performance Award 2022
 by the Development Bureau and Construction Industry Council
 Contract No. HY/2020/07



MiC method



Retractable noise barrier



Electrical Breaking Robot

Environmental Promotion Campaign on Construction Site

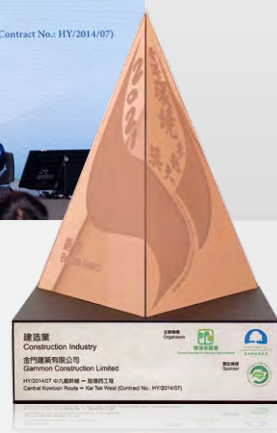
We have been working closely with our contractors to continuously improve our environmental performance on sites. We encourage our contractors to participate in various environmental promotion campaigns and activities, such as the Hong Kong Awards for Environmental Excellence, Hong Kong Green Organisation Certification and Hong Kong Green Awards.

The Hong Kong Awards for Environmental Excellence is one of the most credible environmental awards in Hong Kong, which encourages organisations to implement environmental managements, measures organisations' performance and their commitment to environment management within the industry, and recognises organisations with excellent performance in environmental management. Contract No. HY/2014/07 was granted the Bronze Award in the Sectoral Awards of 2021 Hong Kong Awards for Environmental Excellence to recognise the outstanding environmental performance in the construction industry sector.



Bronze Award Sectoral Awards of 2021 Hong Kong Awards for Environmental Excellence

by the Environmental Campaign Committee
alongside the Environment and Ecology Bureau
Contract No. HY/2014/07



The Hong Kong Green Organisation Certification Scheme

The Hong Kong Green Organisation Certification scheme encourages members to work towards self-improvement in specific environmental aspects. The scheme includes two types of Environmental Labels, namely, Wastewi\$e and Energywi\$e Labels, which are granted to well-performing contractors in recognition of their efforts to reduce waste and save energy. In 2022, Contract Nos. HY/2014/20 and HY/2020/07 attained the Excellent Level; 05/HY/2017 attained the Good Level and HY/2014/07 attained the Basic Level, respectively, in Wastewi\$e Label. For Energywi\$e Label, Contract Nos. HY/2014/20 and HY/2020/07 attained the Excellent Level and 05/HY/2017 attained the Good Level.

Wastewi\$e Certificate

by the Hong Kong Green Organisation Certification scheme



Excellent Level

Contract No. HY/2020/07



Excellent Level

Contract No. HY/2014/20



Good Level

Contract No. 05/HY/2017



Basic Level

Contract No. HY/2014/07

Energywi\$e Certificate

by the Hong Kong Green Organisation Certification scheme



Excellent Level

Contract No. HY/2020/07



Excellent Level

Contract No. HY/2014/20



Good Level

Contract No. 05/HY/2017

Hong Kong Green Awards 2022

The Hong Kong Green Awards, organized by the Green Council, is another highly regarded environmental award in the construction industry, which recognises companies with exceptional performance in green management and sustainable procurement. In 2022, our Contract Nos. HY/2014/20 and HY/2014/08 were granted the Gold Award and Silver Award, respectively, in the category of Green Management Award – Project Management (Large Corporation). Contract No. HY/2021/06 was granted Merit Award in the category of Environmental, Health and Safety Award (Large Corporation).



Gold Award
Green Management Award – Project Management (Large Corporation)
by the Green Council
Contract No. HY/2014/20



Silver Award
Green Management Award – Project Management (Large Corporation)
by the Green Council
Contract No. HY/2014/08



Merit Award
Environmental, Health and Safety Award (Large Corporation)
by the Green Council
Contract No. HY/2021/06

Environmental Objectives and Targets

Achievement in 2022/23
(1.1.2022 – 31.3.2023)



Objective	Target	Achievement (as at 31.3.2023)
Reducing the energy consumption in public lighting	To replace 14,000 lighting points with LED lights.	Replaced 32,227 lighting points with LED lights.
Saving electricity consumption in HyD Offices	To continue implementing housekeeping measures and best practices for energy saving.	Electricity consumption is being monitored closely with a view to achieving 6% saving target by 2024/25. Housekeeping measures and best practices for energy saving are being continuously implemented.
Adopting measures in water conservation	To continue implementing measures in water conservation and exploring the appropriate installation of latest water saving devices in HyD offices.	Measures in water conservation are being adopted continuously.
Improving indoor air quality	To continue up-keeping the indoor air quality at or above Good Class level in HyD offices.	HyD offices' air quality attained Excellent Class or Good Class.
Carrying out carbon audit and implementing measures to reduce greenhouse gas emission	To continue carrying out carbon audit annually. To explore energy conservation opportunities by identifying our major emission source from the carbon audit result.	Carbon audit was arranged by the Building Management Office of Ho Man Tin Government Offices in 2022/23.
Encouraging the use of recycled paper	To upkeep percentage usage of recycled paper at 98% or above of the total paper consumption.	21,805 reams of paper were consumed in the year, and all of them were recycled paper.
Setting target in reducing photocopying paper consumption	To maintain the consumption of photocopying paper per staff member at a level not exceeding the consumption level of 2021.	The consumption of photocopying paper per staff member in 2022/23 is lower than the consumption level of 2021.
Promoting the wider use of recycled materials	To use paving blocks containing recycled glass materials for at least 97% of the newly laid concrete paving block pavements.	100% of the newly laid concrete paving blocks contain recycled glass materials.
Planting trees and shrubs	To plant 36,000 additional trees/shrubs in capital works contracts of MWPMO.	90,446 additional trees/shrubs have been planted.
Adopting site office equipment with energy saving labels	To include particular specification clauses for using site office equipment with energy saving labels and water consuming appliances with WSD water efficiency labels in all the Engineer's site offices (excluding those using existing premises) of capital works contracts of MWPMO to be tendered during the year of 2022/23.	All 3 applicable capital works contracts tendered in 2022/23 have included the particular specification clauses for using site office equipment with energy saving labels and water consuming appliances with WSD water efficiency labels.

Objective	Target	Achievement (as at 31.3.2023)
Using environment-friendly vehicles in capital works projects	To procure at least two electric or hybrid electric vehicles of approved types under each capital works contract of MWPMO to be tendered during the year of 2022/23.	All 3 applicable capital works contracts tendered in 2022/23 have procured at least two electric or hybrid electric vehicles of approved types.
Reducing dust emission	To include a particular specification clause for dust emission reduction in all capital works contracts of MWPMO to be tendered during the year of 2022/23.	All 5 capital works contracts tendered in 2022/23 have included the dust emission reduction particular specification clause.
Adopting energy efficient features and renewable energy technologies	In all capital works consultancy agreements of MWPMO for which invitation to submit Technical and Fee Proposals during the year of 2022/23 to include requirements for the consultants: (i) to identify opportunities to utilize energy efficient features and renewable energy technologies; and (ii) to assess carbon footprint of the road works project during design stage and to provide recommendations on measures to reduce carbon footprint.	All 2 consultancy agreements tendered in 2022/23 have included the requirements (i) and (ii).
Green roof and/or green wall at the Engineer's site office	To include a particular specification clause for construction of green roof and/or green wall in all capital works contracts of MWPMO to be tendered during the year of 2022/23 with the Engineer's site office (excluding those using existing premises) exposed in sunlight.	All 2 applicable capital works contracts tendered in 2022/23 have included the particular specification clause for construction of green roof and/or green wall.
Promoting the use of renewable energy on highway structures	To install photovoltaic panels on existing and new highway structures.	PV panels have been installed on selected existing and new highway structures.
Encouraging the use of electric-powered plants/equipment in construction sites in capital works contracts	To use electric-powered plants/equipment in construction sites in capital works contracts of MWPMO.	3 applicable capital works contracts have used electric-powered plants/equipment in construction sites.



Looking Ahead for 2023/24 (1.4.2023 - 31.3.2024)

Objective	Target
Reducing the energy consumption in public lighting	To replace 14,000 lighting points with LED lights.
Saving electricity consumption in HyD Offices	To continue implementing housekeeping measures and best practices for energy saving.
Adopting measures in water conservation	To continue implementing measures in water conservation and exploring the appropriate installation of latest water saving devices in HyD offices.
Improving indoor air quality	To continue up-keeping the indoor air quality at or above Good Class level in HyD offices.
Carrying out carbon audit and implementing measures to reduce greenhouse gas emission	To continue carrying out carbon audit annually. To explore energy conservation opportunities by identifying our major emission source from the carbon audit result.
Encouraging the use of recycled paper	To upkeep percentage usage of recycled paper at 98% or above of the total paper consumption.
Setting target in reducing photocopying paper consumption	To maintain the consumption of photocopying paper per staff member at a level not exceeding the consumption level of 2022/23.
Promoting the wider use of recycled materials	To use paving blocks containing recycled glass materials for at least 98% of the newly laid concrete paving block pavements.
Reducing dust emission	To include a particular specification clause for dust emission reduction in all capital works contracts of MWPMO to be tendered during the year of 2023/24.
Adopting site office equipment with energy saving labels and water efficiency labels	To include particular specification clauses for using site office equipment with energy saving labels and water consuming appliances with WSD water efficiency labels in all the Engineer's site offices (excluding those using existing premises) of capital works contracts of MWPMO to be tendered during the year of 2023/24.



Objective	Target
Using environment-friendly vehicles in capital works projects	To procure at least two electric or hybrid electric vehicles of approved types under each capital works contract of MWPMO to be tendered during the year of 2023/24.
Adopting energy efficient features and renewable energy technologies	In all capital works consultancy agreements of MWPMO for which invitation to submit Technical and Fee Proposals during the year of 2023/24 to include requirements for the consultants: (i) to identify opportunities to utilize energy efficient features and renewable energy technologies; and (ii) to assess carbon footprint of the road work project during design stage with carbon assessment tool, such as "CIC Carbon Assessment Tool", and to provide recommendations on measures to reducing carbon footprint.
Green roof and/or green wall at the Engineer's site office	To include a particular specification clause for construction of green roof and/or green wall in all capital works contracts of MWPMO to be tendered during the year of 2023/24 with the Engineer's site office (excluding those using existing premises) exposed in sunlight.
Promoting the use of renewable energy on highway structures	To install photovoltaic panels on existing and new highway structures.
Encouraging the use of electric-powered plants/equipment in construction sites in capital works contracts	To use electric-powered plants/equipment in construction sites in capital works contracts of MWPMO and Works Division.

