



Environmental Performance

To strive for continuous improvement in our environmental performance, we have set annual environmental objectives and targets. Our efforts are well recognised by attaining objectives, reaching targets and achieving merits.

AWARDS

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

The Development Bureau and Construction Industry Council jointly organized the Considerate Contractors Site Award Scheme to recognize construction sites with good site safety and environmental performance and considerate attitude towards the neighbourhood and the public. In 2020, our construction sites received three CCSA and two OEMPA awards, including two Silver and one Merit Prizes from CCSA, two Merit Prizes from OEMP, as well as one Silver Prize in Model Subcontractor Award.



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

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

Winner of CCSA (RMAA) Silver 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



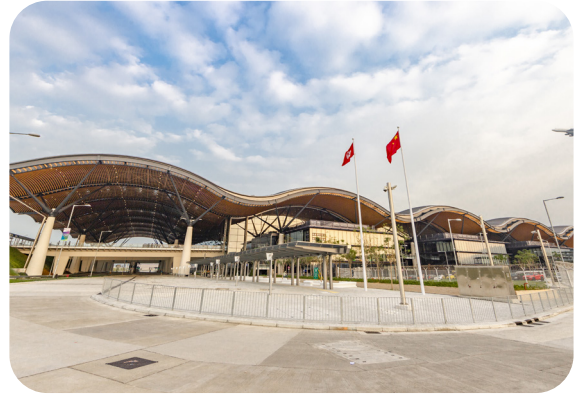
Winner of CCSA (New Works) Merit Prize & OEMPA Merit Prize

Contract No. HY/2014/16
Hiram's Highway Improvement Stage 1 – Between Clear Water Bay Road and Marina Cove



The Hong Kong Green Building Council - BEAM Plus New Building V1.2

BEAM Plus assessment is Hong Kong’s leading initiative to offer independent assessments of building sustainability performance. In 2020, the Passenger Clearance Building, Police Base and Fire Station cum Ambulance Depot in Hong Kong-Zhuhai-Macao Bridge Hong Kong Port achieved Final Platinum rating under BEAM Plus New Building V1.2. It is a recognition of the project team’s efforts in the planning, design and construction of these distinctive buildings in an environmentally friendly manner.



▲ Final Platinum rating under BEAM Plus New Buildings V1.2



ENVIRONMENTAL OBJECTIVES AND TARGETS

Achievement in 2020

Objectives	Targets	Achievement
Reducing the energy consumption in public lighting	To replace 9,300 lighting points with LED lights/LED tubes.	Target achieved: Replaced 27,264 lighting points with LED lights/LED tubes.
Saving 6% electricity consumption in the Highways Department (HyD) offices by FY 2024/25 (comparing with the baseline electricity consumption in FY 2018/19)	To continue implementing housekeeping measures and best practices for energy saving.	Target achieved: Comparing with the baseline in 2018/19, electricity consumption of HyD offices in 2020 has achieved the saving target. Nevertheless, electricity consumption will be monitored closely with a view to continue achieving the 6% saving target by 2024/25. Housekeeping measures and best practices for energy saving are being 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.	Target achieved: Measures in water conservation are being adopted continuously.
Improving indoor air quality	To continue upkeeping the indoor air quality at or above “Good” Class level in HyD offices.	Target achieved: HyD offices’ air quality was monitored and attained the “Excellent” 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.	Target achieved: Carbon audit was arranged by the Building Management Office of Ho Man Tin Government Offices in 2020.
Encouraging the use of recycled paper in the Department	To upkeep percentage usage of recycled paper at 97.5% or above of the total paper consumption.	Target achieved: 19,265 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 at a level not exceeding the consumption level of 2019.	Target achieved: 19,265 reams of paper were consumed in the year, same as that of 2019.
Promoting the wider use of recycled materials	To introduce the use of full depth recycled materials as sub-base of local distributors and feeder roads in more maintenance contracts.	Target achieved: 1 road maintenance contract which was commenced in 2020 and 1 road maintenance contract which was scheduled to commence in 2021 have included the specification clauses for the use of full depth recycled materials as sub-base of local distributors and feeder roads.

Objectives	Targets	Achievement
Planting trees and shrubs	To plant 670,000 additional trees/shrubs in capital works contracts of Major Works Project Management Offices (MWPMOs).	Target achieved: 1,608,138 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 Engineer's site office (excluding those using existing premises) of capital works contracts of MWPMOs to be tendered during the calendar year of 2020.	Target achieved: All 2 applicable capital works contracts tendered in 2020 have included particular specification clauses, for using site office equipment with energy saving labels and water consuming appliances with WSD water efficiency labels.
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 MWPMOs to be tendered during the calendar year of 2020.	Target achieved: All 2 capital works contracts tendered in 2020 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 MWPMOs to be tendered during the calendar year of 2020.	Target achieved: All 2 capital works contracts tendered in 2020 have included the dust emission reduction particular specification clause.
Adopting energy efficient features and renewable energy technologies	<p>In all capital works consultancy agreements of MWPMOs for which invitation to submit Technical and Fee Proposals during the calendar year of 2020 to include requirements for the consultants:</p> <ul style="list-style-type: none"> (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 reducing carbon footprint. 	Target achieved: All 2 consultancy agreements tendered in 2020 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 MWPMOs to be tendered during the calendar year of 2020 with Engineer's site office (excluding those using existing premises) exposed in sunlight.	Target achieved: All 2 applicable capital works contracts tendered in 2020 have included the particular specification clause for construction of green roof and/or green wall.

Looking Ahead for 2021

Objective	Target
Reducing the energy consumption in public lighting	To replace 10,000 lighting points with LED lights/LED tube.
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 in the Department	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 2020.
Promoting the wider use of recycled materials	(i) To introduce the use of full depth recycled materials as sub-base of local distributors and feeder roads in more maintenance contracts; and (ii) To use paving blocks containing recycled glass materials for at least 97% of the newly laid concrete paving block pavements.
Planting trees and shrubs	To plant 94,000 additional trees/shrubs in capital works contracts of MWPMOs.
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 Engineer’s site office (excluding those using existing premises) of capital works contracts of MWPMOs to be tendered during the calendar year of 2021.
Using environment-friendly vehicles in construction sites	(i) To procure at least two electric or hybrid electric vehicles of approved types under each capital works contract of MWPMOs to be tendered during the calendar year of 2021; and (ii) To procure at least three electric or hybrid electric vehicles of approved types under each road maintenance term contract to be tendered during the calendar year of 2021.

Objective	Target
Reducing dust emission	To include a particular specification clause for dust emission reduction in all capital works contracts of MWPMOs to be tendered during the calendar year of 2021.
Adopting energy efficient features and renewable energy technologies	In all capital works consultancy agreements of MWPMOs for which invitation to submit Technical and Fee Proposal during the calendar year of 2021 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 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 MWPMOs to be tendered during the calendar year of 2021 with 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 "zero/low emission" plants in construction sites in capital works projects	To use "zero/low emission" plants in construction sites in capital works contracts of MWPMOs.

Hoping that this report could provide you with a glimpse of our dedication and efforts in environmental protection. Should you have any comment to our work, please share with us your views through our homepage on the Internet (address: <http://www.hyd.gov.hk>). Thank you for reading this publication.