



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 2014, our construction sites received seven CCSA and five OEMPA awards, including one Silver, two Bronze and four Merit Prizes from CCSA, and one Gold, one Bronze and three Merit Prizes from OEMPA.



**Contract number
HY/2009/18
"Central-Wanchai
Bypass - Central
Interchange"**

winner of CCSA
(New Works)
Silver Prize and
OEMPA Bronze
Prize





**Contract number
HY/2009/15 "Central-
Wanchai Bypass
- Tunnel (Causeway
Bay Typhoon Shelter
Section)"**

winner of CCSA
(New Works)
Merit Prize and
OEMPA Gold
Prize



**Contract number
05/HY/2012 "Management
and Maintenance of High
Speed Roads in New
Territories East and Hong
Kong Island 2013-2019"**

winner of CCSA
(Repair, Maintenance,
Alteration & Addition
Works) Bronze Prize





**Contract number
HY/2010/08 "Central-
Wan Chai Bypass
- Tunnel (Slip Road 8
Section)"**

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





Environmental Objectives and Targets

Achievement in 2014

Objective	Target	Achievement
Reducing the energy consumption in public lighting	To continue installing of dimmers for the lighting system at footbridges.	Installation of dimmers for the lighting system at footbridges started in December 2014 for completion in March 2015.
Saving 5% electricity consumption in HMTGO by 2014 (Comparing with the baseline electricity consumption in 2009)	To replace 60 nos. of fluorescent lighting by dual lighting fittings with motion sensors in staircases of HMTGO.	Objective and target achieved: 5% saving in electricity consumption achieved. The replacement of 60 nos. of fluorescent lighting by dual lighting fittings with motion sensors in staircases was completed in 2014.
Adopting measures in water conservation	To continue installing dual-flush toilets, automatic low flow water taps and sensor type urinals in the toilets of HMTGO when they are refurbished.	Target achieved: toilet refurbishment works from UG/F to 6/F of HMTGO has been completed.
Improving indoor air quality	To continue upkeeping the indoor air quality at or above the level of "Good Class" in HMTGO.	Target achieved: air quality measurement was conducted by the Electrical and Mechanical Services Department in August 2014. HMTGO was awarded the Indoor Air Quality Certificate (Good Class).
Carrying out carbon audit for tracking the effectiveness of Green House Gas (GHG) reduction	To continue carrying out carbon audit twice per year for tracking the effectiveness of GHG reduction.	A carbon audit was conducted by the Building Management Office of HMTGO in April 2014.
Encouraging the use of recycled paper in the Department	To maintain the percentage usage of recycled paper not less than 96.5% of the total consumption.	Target achieved: 17,851 reams of paper were consumed in the year, out of which, 99.94% 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 2013.	Target achieved: 17,851 reams of paper were consumed in the year. Comparing with 18,322 reams of paper consumed in 2013, a saving of 2.57% in paper consumption was achieved.
Promoting the wider use of recycled materials	To introduce the use of the following construction materials/ methods in more maintenance contracts progressively; (a) Reclaimed Asphalt Pavement (RAP) in bituminous pavement construction; and (b) Thermal Patcher for appropriate scale resurfacing.	(a) Target achieved: use of RAP has been specified in one new road maintenance contract scheduled to commence in April 2015. (b) Target achieved: use of Thermal Patcher for appropriate scale resurfacing has been specified in one new road maintenance contract scheduled to commence in April 2015.
Planting trees and shrubs	To plant 625,000 trees/shrubs in capital works contracts of MWPMO and HZMB-HKPMO.	Target achieved: 1,263,984 trees/shrubs have been planted.
Adopting site office equipment with energy saving label	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 MWPMO and HZMB-HKPMO tendered in 2014.	Target achieved: all 6 applicable capital works contracts tendered in 2014 have adopted site office equipment with energy saving label.
Procuring environmentally friendly contract vehicle	To procure environmentally friendly private car model approved by EPD for saloon type contract vehicle in all capital works contracts of MWPMO and HZMBHKPMO tendered in 2014.	Target achieved: all 8 capital works contracts tendered in 2014 have procured environmentally friendly contract vehicle.
Reducing dust emission	To include a particular specification clause for dust emission reduction in all capital works contracts of MWPMO and HZMB-HKPMO tendered in 2014.	Target achieved: all 8 capital works contracts tendered in 2014 have included the dust suppression particular specification clause.
Adopting energy efficient features and renewable energy technologies	In all capital works consultancy agreements of MWPMO and HZMB-HKPMO tendered in 2014 to include requirements for the consultants: (a) to identify opportunities to utilize energy efficient features and renewable energy technologies; and (b) to assess carbon footprint of the road work project during design stage and to provide recommendations on measures to reducing carbon footprint.	Target achieved: the only 1 consultancy agreement tendered in 2014 has included relevant requirements for the consultants to produce a separate study on both items.
Green Roof and Green Wall at the Engineer's Site Office	To include a particular specification clause for construction of green roof and green wall in all capital works contracts of MWPMO and HZMB-HKPMO tendered in 2014 with Engineer's Site Office (excluding those using existing premises) exposed in sunlight.	Target achieved: all 6 applicable capital works contracts tendered in 2014 have included the particular specification clause for construction of green wall and green roof.

Looking Ahead for 2015

Objective	Target
Reducing the energy consumption in public lighting	To replace old T8 fluorescent tubes by LED tubes in 10 subways to save energy.
Saving 5% electricity consumption in HyD offices by 2019 (Comparing with the baseline electricity consumption in 2013)	To continue implementing housekeeping measures and best practices for energy saving and monitoring the electricity consumption in HyD offices.
Adopting measures in water conservation	To continue implementing measures in water conservation and exploring the appropriate installation of latest water saving devices in HMTGO.
Improving indoor air quality	To continue upkeeping the indoor air quality at or above the level of "Good Class" in HMTGO.
Carrying out carbon audit for tracking the effectiveness of Green House Gas (GHG) reduction	To continue carrying out carbon audit twice per year for tracking the effectiveness of GHG reduction.
Encouraging the use of recycled paper in the Department	To maintain the percentage usage of recycled paper not less than 96.5% of the total consumption.
Setting target in reducing photocopying paper consumption	To maintain the consumption of photocopying paper at a level not exceeding the consumption level of 2014.
Promoting the wider use of recycled materials	To introduce the use of the following construction materials/methods in more maintenance contracts progressively: (a) RAP in bituminous pavement construction; (b) Thermal Patcher for appropriate scale resurfacing; and (c) Stone mastic asphalt with polymer modified binder
Planting trees and shrubs	To plant 15,500 trees/shrubs in capital works contracts of MWPMO and HZMB-HKPMO.
Adopting site office equipment with energy saving label	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 MWPMO and HZMB-HKPMO to be tendered during the calendar year of 2015.
Procuring environmentally friendly contract vehicle	To procure environmentally friendly private car model approved by EPD for saloon type contract vehicle in all capital works contracts of MWPMO and HZMB-HKPMO to be tendered during the calendar year of 2015.
Reducing dust emission	To include a particular specification clause for dust emission reduction in all capital works contracts of MWPMO and HZMB-HKPMO to be tendered during the calendar year of 2015.
Adopting energy efficient features and renewable energy technologies	In all capital works consultancy agreements of MWPMO and HZMB-HKPMO tendered during the calendar year of 2015 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 and to provide recommendations on measures to reducing carbon footprint.
Green Roof and Green Wall at the Engineer's Site Office	To include a particular specification clause for construction of green roof and green wall in all capital works contracts of MWPMO and HZMB-HKPMO to be tendered during the calendar year of 2015 with Engineer's Site Office (excluding those using existing premises) exposed in sunlight.

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.