

# Environmental Performance

We endeavour to achieve excellence in environmental protection by setting objectives and targets for continuous improvement in our environmental performance.



## Awards

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

The Development Bureau and Construction Industry Council jointly organised the Considerate Contractors Site Award Scheme to recognise construction sites with good site safety and environmental performance and considerate attitude towards the neighbourhood and the public. In 2018, our construction sites received two OEMPA and four CCSA awards, including one Silver and one Bronze Prizes from OEMPA, one Gold, one Silver and two Merit Prizes from CCSA, as well as one Bronze and one Merit Prizes in Model Subcontractor Award.

**Contract No. HY/2012/06**  
**“Widening of Fanling Highway - Tai Hang to Wo Hop Shek Interchange”**

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

**Contract No. HY/2013/12**  
**“Tuen Mun - Chek Lap Kok Link - Northern Connection Toll Plaza and Associated Works”**

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

**Contract No. HY/2012/07**  
**“Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section”**

Winner of CCSA (New Works) Merit Prize

**Contract No. 05/HY/2012**  
**“Management and Maintenance of High Speed Roads in NT East and HK Islands (2013 - 2019)”**

Winner of CCSA (RMAA) Merit Prize

### Hong Kong Flower Show 2018

Our display won “The Grand Award for Unique Feature” with iconic “Heart” shape screens to echo the main theme – “Joy in Bloom” in the Hong Kong Flower Show 2018. Different stages of highways development were subtly integrated in the design. Visitors were reminded of “joyful” memories while walking through the “Heartful Journey” of the display. Another highlight was the “Acacia Corner”, introducing the Acacia Slopes Enhancement Programme. It demonstrated the life cycle of trees and how Acacia wood could be “up-cycled” into interesting sculptures and artworks.



Bird-eye view of our display



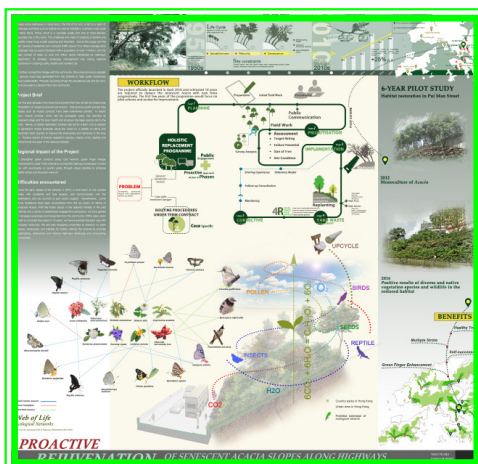
Up-cycled Acacia wood sculptures at the “Acacia Corner”



Design inspired by theme flower and main theme – “Joy in Bloom”

### The Canadian Society of Landscape Architects (CSLA) Awards of ‘Excellence 2018 (Landscape Management) - National Award’

We had been proactively replacing senescent Acacia with native and naturalized species, and upcycling the felled trees under the “Proactive Rejuvenation of Senescent Acacia Slopes along Highways in Hong Kong”. This project had received the ‘Excellence 2018 (Landscape Management) - National Award’ from the CSLA, which is an international recognition of the Highways Department’s outstanding achievements in safeguarding public safety, and improving biodiversity and resilience.



We were presented with certificate by the representative of CSLA during the award ceremony

## Environmental Objectives and Targets

### Achievement in 2018

Objective	Target	Achievement
Reducing the energy consumption in public lighting	(i) To replace 4,000 road lights with LED lights; (ii) To replace 500 directional signs and gantry signs lights with LED lights; and (iii) To replace 1,200 T8 fluorescent tubes with LED tubes.	(i) Target achieved: Replaced 6,162 road lights with LED lights. (ii) Target achieved: Replaced 500 directional signs and gantry signs lights with LED lights. (iii) Target achieved: Replaced 1,210 T8 fluorescent tubes by LED lights.
Saving 5% electricity consumption in Ho Man Tin Government Offices by 2019 (Comparing with the baseline electricity consumption in 2013)	To continue implementing housekeeping measures and best practices for energy saving. To replace fluorescent lighting by dual lighting fittings with motion sensors at our outstation offices.	Target achieved: Electricity consumption in HyD offices is being monitored closely. Housekeeping measures and best practices for energy saving are being implemented. The EMSD had conducted replacement work of LED lighting for 3 outstation offices and planned the replacement work of LED lighting fittings with motion sensors at Ho Man Tin Government Offices.
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 the level of "Good" Class in HyD offices.	Target achieved: Air measurement was conducted by the EMSD in December 2018. 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 2018.
Encouraging the use of recycled paper in the Department	To upkeep percentage usage of recycled paper at 97% 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 2017.	19,265 reams (increased by 10.58%) of paper were consumed in the year due to the commission of new works and projects.
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: 2 road maintenance contracts which were commenced in 2018 and 1 road maintenance contract which was scheduled to commence in 2019 have included the specification clauses for the use of full depth recycled materials as sub-base of local distributors and feeder roads.

Objective	Target	Achievement
Planting trees and shrubs	To plant 29,000 additional trees/shrubs in capital works contracts of Major Works Project Management Offices (MWPMOs).	Target achieved: 301,423 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 2018.	Target achieved: All 2 applicable capital works contracts tendered in 2018 have included a particular specification clause 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 include the requirement for procuring at least one electric or hybrid electric vehicle for saloon type contract vehicle in each capital works contract of MWPMOs to be tendered during the calendar year of 2018.	Target achieved: All 3 capital works contracts tendered in 2018 have included a particular specification clause for procuring at least one electric or hybrid electric vehicle.
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 2018.	Target achieved: All 3 capital works contracts tendered in 2018 have included the dust emission reduction particular specification clause.
Adopting energy efficient features and renewable energy technologies	In all capital works consultancy agreements of MWPMOs for which invitation to submit Technical and Fee Proposals during the calendar year of 2018 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.	Target achieved: 6 consultancy agreements tendered in 2018 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 2018 with Engineer's site office (excluding those using existing premises) exposed in sunlight.	Target achieved: All 2 applicable capital works contracts tendered in 2018 have included the particular specification clause for construction of green roof and/or green wall.

### Looking Ahead for 2019

Objective	Target
Reducing the energy consumption in public lighting	To continue replacing 9,300 lighting points with LED lights/LED tubes.
Saving 5% electricity consumption in Ho Man Tin Government Offices by 2019 (Comparing with the baseline electricity consumption in 2013)	To continue implementing housekeeping measures and best practices for energy saving. To replace fluorescent lighting by LED lighting fittings with motion sensors at Ho Man Tin Government Offices.
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 upkeeping 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 97.5% or above of the total paper consumption.
Setting target in reducing photocopying paper consumption	To maintain the consumption of photocopying paper at a level not exceeding the consumption level of 2018.
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.
Planting trees and shrubs	To plant 646,000 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 2019.
Using environment-friendly vehicles in capital works projects	To include the requirement for procuring at least one electric or hybrid electric vehicle for saloon type contract vehicle in each capital works contract of MWPMOs to be tendered during the calendar year of 2019.

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 2019.
Adopting energy efficient features and renewable energy technologies	In all capital works consultancy agreements of MWPMOs for which invitation to submit Technical and Fee Proposals during the calendar year of 2019 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/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 2019 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.