

# Environmental Report 2021















#### **FOREWORD**

The Transport Department is fully committed to environmental protection. We have bee worki g whole-heartedly to improve air quality by taking proactive measures to mitigate the air pollution generated from our tra sport system. We have also exerted influence over our business partners i the transport sector, for example, fra chised bus, public light bus and taxi operators, to e courage them to joi us i pursuing the wide ra ge of measures aimed at protecti g the environment.

We will continue to strive for achievement of our Departmental Vision, viz."we will rovide the world's best trans ort system which is safe, reliable, efficient, nvironmentally friendly and satisfying to both users and operators". I this issue of our Environmental Report we aim to advise the readers what have bee done i 2021 by or through the Transport Department to improve the quality of our livi g environment.



#### **ABOUT THIS REPORT**

This Environmental Report covers the period from 1 January 2021 to 31 December 2021. It is published i electronic version on our web site for the sake of reduci g paper consumption. Its target readers are members of the ge eral public. The readers will be informed of the business of our Department, the efforts we have made and the measures we have take to protect the environment.

A y suggestions or comments on this report are most welcome and ca be sent to tdenq@td.gov.hk.



#### ABOUT TRANSPORT DEPARTMENT

Our Department is responsible for the implementation of the Government's transport policy under the following 5 programme areas:

- (i) Planning and Development;
- (ii) Licensing of Vehicles a d Drivers;
- (iii) District Traffic and Transport Services;
- (iv) Management of Transport Services; and
- (v) Transport Services for People with Disabilities.

Our headquarters are located i the South Tower of West Kowloon Government Offices i Yau Ma Tei. We also have some 20 sub-offices accommodated i other government offices or private commercial buildings. As at the end of 2021, we had a establishment of 35 directorate posts and 1,867 non-directorate posts. I our daily business, we manage or operate the following main types of facilities:

- (i) public transport interchanges/termini;
- (ii) vehicle inspection centres;
- (iii) driving test centres;
- (iv) traffic lights;
- (v) escalators;
- (vi) intelligent transport systems; and
- (vii) roads and pedestrian facilities.







Besides other gover ment departments, our business partners include the operators of franchised and non-fra chised buses, tram, taxi, ferry and public light buses. We also run maintenance, operation and management contracts with the various tunnel and Government carpark operators.





#### ENVIROMENTAL GOAL

Our environmental goal is to provide an environmentally friendly transport system in Hong Kong.



#### **ENVIRONMENTAL POLICY**

We are committed to providing a transport system in an environmentally acceptable manner to align with the sustainable development of Hong Kong.

#### **ENVIRONMENTAL OBJECTIVES**

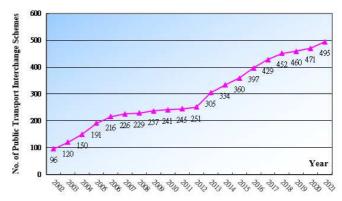
#### **Environmental Objective No. 1 - Reduction in Vehicular Traffic**

In managing the public transport system, we coordinate the roles played by the various public transport modes, including the rail, bus, tram, public light bus, taxi, ferry etc., so as to achieve the highest possible overall efficiency. This includes rationalizing public transport services to improve accessibility whilst avoiding duplication and raising the level of service to improve attractiveness. In the end, it helps to reduce vehicular traffic and mitigate air pollution. With these benefits in mind, we made our best efforts to enhance the efficiency of the transport system in the following ways:

#### (i) Implementation of public transport interchange schemes

The introduction of interchange schemes enables passengers to make the most efficient use of the transport system across different modes. They include busrail interchange, green minibus-rail interchange, taxi-rail interchange, green

minibus-bus interchange, tramway-bus interchange and bus-bus interchange schemes. The numbers of bus-bus interchange schemes implemented since 2002 are shown in the graph on the right.

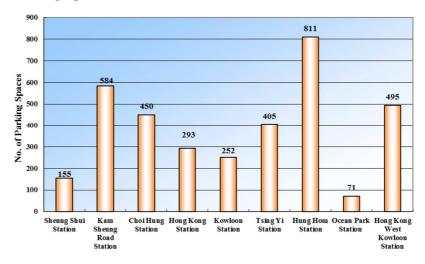


#### (ii) Rationalization of bus routes and stops

This process includes amalgamation, truncation a d modification of bus routes, re-location of bus stops and adjustment of bus schedules to match the prevailing passe ger demands. The resulti g arra gements ca help to reduce traffic congestion. Betwee 2012 and 2021, the cumulative reduction of the number of bus trips i the busy corridors i Central, Causeway Bay and Yau Tsim Mong was 6,326.

#### (iii) Provision of park-and-ride (PnR) faci ities

These facilities are carparks provided near railway stations. People ca shorte their private car trips and switch to the rail for the major part of their journeys. The numbers of parki g spaces provided i some PnR facilities are shown in the graph below.



#### (iv) Fostering bicyc e-friend y environment

We aim to enable the public to use bicycles for recreational or short-distance commuting purposes, thereby reducing the use of mechanized transport. Where road safety considerations and circumstances permit, we would explore the feasibility to enhance our cycle tracks etwork and cycle parking facilities in the New Territories, as well as to provide comprehensive cycling facilities in





new development areas and new towns under the collaboration with other departments. As at the end 2021, there are a total of about 240km long of cycle tracks and a total of about 40,300 cycle parking spaces managed by our Department in Hong Kong.

#### **Environmental Objective No. 2 – Reduction of Vehicular Emissions**

We have been implementing the following series of measures to reduce vehicle emissions so as to better protect public health. Between 2011 and 2021, the concentrations of major air pollutants recorded at the roadside air quality monitoring stations have been on a declining trend: the annual average concentrations of respirable suspended particulates (RSP), fine suspended particulates (FSP), nitrogen dioxide (NO<sub>2</sub>), and sulphur dioxide (SO<sub>2</sub>) have dropped by 46%, 47%, 43% and 58% respectively.

#### (i) Tightening vehicle emission standards for motor vehicles

Tightened the emission standards for first registered diesel private cars and motorcycles to California LEV III from October 2017 and Euro 4 from October 2020 respectively, and for first registered light buses (with a design weight of more than 3.5 tonnes) and buses (with a design weight of not more than 9 tonnes) to Euro VI from 1 March 2021, and launched an incentive cum regulatory scheme in October 2020 to progressively phase out some 40,000 Euro IV Diesel Commercial Vehicles (DCVs) by end 2027. \$7.1 billion was set aside for exgratia payment to assist the affected vehicle owners.

#### (ii) Reducing emissions from franchised buses

In order to reduce emissions from the franchised buses, the Government is preparing a trial of retrofitting Euro V bus models with enhanced selective catalytic reduction systems (SCR) so as to review the technical feasibility of the retrofit as well as the emission reduction performance of the enhanced SCR systems under the local



driving and operation conditions. Subject to the outcome for the trial and resources required, the Government would consider installing relevant emission reduction devices onto other eligible buses.

#### (iii) Franchised bus low emission zones (FBLEZs)

The emission requirements of franchised buses plying through the FBLEZs in Central, Causeway Bay and Mong Kok were tightened to Euro V from 31 December 2019.

# (iv) All private cars, taxis, light buses, goods vehicles, buses and special purpose vehicles

We required them to pass smoke or emission tests during their annual inspection.



#### **Smoke Test**

## Environmental Objective No. 3 - <u>Use of Alternative Fuel Vehicles to replace Diesel</u> Vehicles

To continuously improve roadside air quality, the Government implemented a series of measures and ex-gratia payment schemes to phase out old diesel commercial vehicles. Besides, we took part jointly with other Government departments in the promotion of "cleaner" fuel such as liquefied petroleum gas (LPG) or electricity in place of diesel. Our efforts include the implementation of the following:

#### (i) Conversion of diesel taxis to LPG taxis and introduction of alternate fuel

As at the end of 2021, about 99% (i.e. 18,160 Nos.) of the taxis were LPG taxis. Hybrid taxis have started serving Hong Kong since 2013. In addition, we facilitate the Environmental Protection Department (EPD) to implement trial scheme of electric taxis ("e-taxis"), including identifying suitable



taxi stands for setting up charging facilities to promote wider use of e-taxis.

#### (ii) Set-up of LPG Refilling Stations

We worked jointly with other departments to facilitate the setting up of LPG refilling stations at convenient locations. Up to end 2021, there were a total of 70 LPG refilling stations in Hong Kong.

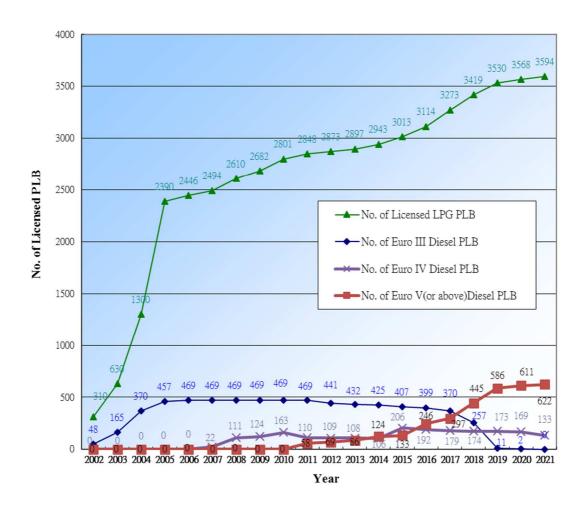
#### (iii) Phasing out old diesel commercial vehicles (DCV)

Further to the phasing out of 80 000 pre-Euro IV (i.e. Pre-Euro, Euro I, Euro II and Euro III) DCVs, the Government is progressively phasing out about 40 000 Euro IV DCVs before end-2027. Upon completion of the programmes, DCVs with high air pollutant emissions will be retired. Newer DCVs have a service life limit of 15 years and hence will be retired in due course.

# (iv) Incentive scheme for phasing out Euro IV diesel Public Light Buses and pilot scheme for electric Public Light Buses

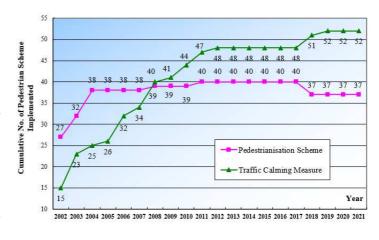
In October 2020, the Administration launched an ex-gratia payment scheme to phase out Euro IV diesel public light buses (PLBs). Eligible PLB owners can use the ex-gratia payment for buying new vehicles. Moreover, we facilitate the EPD to implement the pilot scheme for electric Public Light Buses ("e-PLB"), including providing operational advices for identifying suitable PLB terminus or public transport interchanges ("PTIs"), and conducting site visit to confirm the electricity supply and suitability of installation of charging facilities at the concerned terminus or PTIs.

As at end of 2021, there were 3,594 licensed LPG PLBs, 133 licensed Euro IV diesel PLBs, and 622 licensed EuroV or above diesel PLBs. The numbers of licensed LPG PLB, Euro III, IV and V (or above) diesel PLBs since 2002 are shown in the graph below.



### Environmental Objective No. 4 - <u>Pedestrian & Traffic Calming Schemes</u>

These schemes have bee recognized by the public since we first introduced them to busy areas like Causeway Bay i 2000. The cumulative numbers of pedestria schemes implemented since 2002 are show i the graph on the right.







Before improvement

After improvement

#### **Traffic Calming Street: Jaffe Road (near O'Brien Road)**

#### **Environmental Objective No. 5 - Enhancing Walkability**

#### Fostering "Walk in HK"

The Government has been promoting "Walk in HK" with a view to encouraging people to walk more and ride less. Promoting walkability is not only a key element in the Government's effort to combat climate change, but will also help encourage a healthy lifestyle, strengthen community interaction and build an age-friendly environment. To develop Hong Kong into a walkable city, we formulated the overall walkability strategy for Hong Kong in December 2020. The strategy enshrines the value of placing high priority on pedestrians in transport planning, fosters a pedestrian-friendly environment, and promotes walking as a form of sustainable urban mobility to bring about transport, social, environmental, economic and health benefits. After testing out new initiatives for walkability enhancement measures, we plan to bring them forward for territory-wide application along the four pillars of walkability, namely "Make it smart", "Make it connected", "Make it enjoyable" and "Make it safe". Besides, we have developed a pedestrian planning framework, which integrates traffic, transport, land use and development projects. We have sought opportunity to apply the pedestrian planning framework for pedestrian planning in collaboration with relevant departments in the planning of new development areas and in suitable built-up areas.

#### (i) "Make it smart"

To "make it smart" by providing user-friendly information on walking routes, we implemented a pilot pedestrian wayfinding signage system in Tsim Sha Tsui in July 2018, with reference to overseas experiences, providing legible and consistent pedestrian information to facilitate better pedestrian route planning and to make pedestrian journey smart. We were developing a new pedestrian wayfinding system having regard to the experience gained from the pilot system.

#### (ii) "Make it connected"

To "make it connected" by enhancing the pedestrian networks, we are endeavouring to take forward initiatives to provide a continuous east-west walkway from Wan Chai to Sheung Wan through effective linkages between the existing walkway systems in Central, Admiralty and Wan Chai, which include provision of a possible walkway link between Admiralty and Wan Chai Government Offices redevelopment. Moreover, we continued taking forward various hillside escalator links and elevator systems (HEL) projects. On the basis of the revised assessment mechanism, we conducted assessment for 114 new HEL proposals which were received up to Q3 2017, through a due process for initial screening and proposals prioritisation. We would implement the priority projects selected according to the revised assessment mechanism after local consultation.

#### (iii) "Make it enjoyable"

To "make it enjoyable" by making walking a pleasant experience, about 390 non-essential traffic signs and 22km of pedestrian railings in the territory were removed as at the end 2021 to reclaim space for pedestrians at ground level. Furthermore, we have been taking forward the provision of covers to walkways connecting to public hospitals, and embarked on a plan to provide covers to walkways nominated by the 18 District Councils. We also reviewed and relaxed relevant criteria set in the Transport Planning and Design Manual for provision of covers to walkways.

#### (iv) "Make it safe"

To "make it safe" by providing a safe and quality pedestrian environment, we implemented trials of low speed limit zone in 2020 and raised crossing with colour dressing in 2021 at Wai Chi Street, Sham Shui Po to further calm the traffic, thus enhancing pedestrian safety. We would review and update the relevant planning standards and design in relation to pedestrian environment and facilities. Examples include enhanced standards for footway widths, pedestrian crossing facilities, and traffic calming street design, etc.

We will continue to work towards the aim of enhancing the walkability of our city for Hong Kong people to commute, connect and enjoy, making walking an integral part of Hong Kong as a sustainable city.

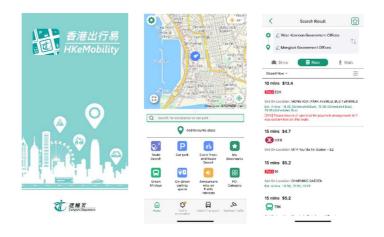
# Environmental Objective No. 6 - <u>Efficient Use of Road Space through App ication</u> of Advanced Technologies

We aim to reduce the journey times of motorists, and hence the consumption of vehicle fuel and emission of air pollutants from vehicles, through the enha cement of the efficiency of the transport network by promoti g the application of intelligent transport systems in the following aspects:

# (i) Provision of Transport Information through Internet and Mobi e App ications

We have bee providing traffic and transport information through the Internet on our Homepage for the motorists and passe gers to pla their journeys and make better use of the road network a d public transport services.

I July 2018, we launched a integrated mobile application "HKeMobility" to replace TD's 3 previous mobile applications, viz. "Hong Kong eRouti g", "Hong Kong eTransport" and "eTraffic News". I March 2021, we enha ced the user interface of the "HKeMobility" mobile application with personalised traffic and public transport information. Public ca conveniently and swiftly search for routes, journey time and fares of different transportation modes and obtai real-time traffic news which facilitate commuting and route planni g by the public. The traffic a d transport information was also disseminated to the public through DATA.GOV.HK. As at the end of 2021, the accumulated no. of download of "HKeMobility" was over 2.6 million and the average daily hit rate was about 50,000.



**HKeMobility Mobile Application** 

#### (ii) Dissemination of Real-time Traffic Information on Roads

To enhance smooth traffic flow and alleviate traffic congestion, we provided efficient traffic monitoring and incident management by installation of traffic control and surveillance (TCS) facilities in tunnels and Tsing Ma Control Area, Tsing Sha Control Area, Kong Sham Western Highway, Tuen Mun Road, Tolo Highway, Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road and Tuen Mun-Chek Lap Kok Link. Real-time traffic information was provided to motorists via the TCS facilities, such as variable message signs, lane control signals, etc.



Journey Time Indication System



Speed Map Panel

To facilitate the pubic to plan their journeys and select suitable routes or transport modes, we provided Journey Time Indication System (JTIS) at major divergent points towards the three cross-harbour tunnels to show the journey times from the specific divergent points to the exit portals of various crossharbour tunnels. We also provided Speed Map Panels (SMP) and JTIS at critical divergent points of strategic routes in the New Territories to show the real-time traffic conditions on the roads ahead towards Kowloon. the end of 2021, there were 17 sets of JTIS and 5 sets of SMP in Hong Kong in operation. Installation of additional 11 sets of JTIS before

the critical divergent points at major roads over the territory was in progress for completion by end 2022.

We have developed a Traffic and Incident Management System (TIMS) to enhance the efficiency and effectiveness in managing traffic and transport incidents and in disseminating traffic and transport information to the public. The TIMS was commissioned in 2017. With the benefit of more real-time traffic information, motorists can better plan their journeys ahead to avoid traffic congestion, thus effectively reducing their journey times.

Since March 2011, we have bee disseminating real-time traffic data for free download and value-added re-use by the public through DATA.GOV.HK. We completed the installation of about 1200 traffic detectors on strategic routes and major roads in 2020 to enhance the coverage of real-time traffic information.

#### (iii) Operation of Area Traffic Control (ATC) Systems

The Area Traffic Control (ATC) system optimises the utilisation of road capacity, minimizes traffic delay and reduces the journey time of road users through optimization of traffic signals. Due to better coordination of traffic sig als resulting i less stop and start activities, fuel consumption and emissions of



vehicles are also reduced. As at the end of 2021, out of the 1,961 road junctions operating with traffic signals in the territory, 1,934 were under the control of ATC system.

## Environmental Objective No. 7 - <u>Saving E ectricity and Maintaining Good</u> Indoor Air Quality at our Faci ities

#### Saving Electricity at our Facilities

Our facilities that have major consumption of electricity are broadly divided into 3 categories for the sake of formulating our electricity savi g measures:

# (i) Category 1 inc uding al our offices, vehic e inspection centres, and driving

test centres

We adopted gree office management to reduce electricity consumption i this category of facilities.

Kowloon Bay Vehicle
Examination Centre

(ii) Category 2 inc uding traffic ights, CCTV, variable message signs, intelligent transport systems and journey time indication systems, etc, that are in operation round the cock for the purpose of regulating and monitoring road traffic

To reduce power consumption, light emitting diode (LED) lights were adopted in this category of road traffic facilities.





(iii) Category 3 inc uding escalators and pub ic transport interchanges/terminus that serve pedestrians and pub ic transport passengers

There is room for energy-saving but we have to strike a balance betwee the saving of electricity and the service to the public. The measures adopted to reduce electricity consumption by the facilities i this category include the following:



- Turni g off escalators at the end of the operati g period
- Turni g off the ventilatio and part of the lighti g of the public transport intercha ges/termini as soon as the public transport services cease every night
- Using lighting of low power consumption rating
- Maintaining the ventilation systems properly for them to work efficiently in respect of power consumption

The situation of electricity consumption of the above category 1<sup>1</sup> and 3 facilities since 2010 is shown in the following table:

Year	2010	2011	2012	2013	2014	2015
Electricity consumed (kWh)	3,326,832	3,186,493	2,986,255	2,652,430	2,776,030	2,716,586
Year	2016	2017	2018	2019	2020	2021
Electricity consumed (kWh)	2,787,039	3,037,216	2,725,799	2,558,874	2,586,834	5,662,572

#### Maintaining Good Indoor Air Quality at our Facilities

In 2003, EPD launched the Indoor Air Quality (IAQ) Certification Scheme to promote and commend good IAQ management practice.

The following eligible premises of TD have joined the IAQ Certification Scheme and obtained a "Good/Excellet" class of indoor air quality in 2021:

- 1. North District Government Offices, 3 Pik Fung Road, Fanling, New Territories
- 2. Harbour Building, 38 Pier Road, Central, Hong Kong
- 3. Immigration Tower, 7 Gloucester Road, Wan Chai, Hong Kong
- 4. Queensway Government Offices, 66 Queensway, Hong Kong
- 5. Cheung Sha Wan Government Offices, 303 Cheung Sha Wan Road, Cheung Sha Wan, Kowloon
- 6. Mong Kok Government Offices, Kowloon, 30 Luen Wan Street, Mong Kok, Kowloon
- 7. Sha Tin Government Offices, 1 Sheung Wo Che Road, Shatin, New Territories
- 8. Kowloon East Government Offices, 12 Lei Yue Mun Road, Kwun Tong, Kowloon
- 9. Cross Harbour Tunnel Administration Building, Cross Harbour Tunnel, Hung Hom, Kowloon
- 10. Tate's Cairn Tunnel Administration Building, Siu Lek Yuen Road, Shatin, New Territories
- 11. Tower II of Grand Central Plaza, 138 Shatin Rural Committee Road, Sha Tin, New Territories

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Excluding electricity consumption in joint-user government buildings which are reported by the Government Property Agency

- 12. West Kowloon Government Offices South Tower, 11 Hoi Ting Road, Yau Ma Tei, Kowloon
- 13. Tseung Kwan O Tunnel Administration Building, 1 Tseung Kwan O Tunnel Road, New Territories
- 14. Lion Rock Tunnel Administration Building, Lion Rock Tunnel, Sha Tin, New Territories
- 15. Kai Tak Administration Building, Kai Tak Tunnel, Kowloon City, Kowloon
- 16. Shing Mun Tunnels Administration Building, Shing Mun Tunnels, Tsuen Wan, New Territories
- 17. Eastern Harbour Crossing Administration Building, Eastern Harbour Crossing, New Kowloon Inland Lot 6047, Cha Kwo Ling East, Kwun Tong, Kowloon
- 18. Lung Shan Tunnel and Cheung Shan Tunnel Administration Building, Wo Keng Shan Road, Ta Kwu Ling, New Territories
- 19. Scenic Hill Tunnel and Airport Tunnel Administration Building, 38 Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road, Lantau Island, New Territories
- 20. Central-Wan Chai Bypass Tunnel Administration Building, Administration Building, Oil Street, North Point, Hong Kong
- 21. Transport Department Vehicle Examination Complex, 18 Sai Tso Wan Road, Tsing Yi, New Territories





#### **Environmental Objective No. 8 - Green Office Management**

We always keep abreast of the green practices recommended by the Environmental Protection Department and Electrical & Mechanical Services Department and introduce them to our offices whenever appropriate. Our aim is to reduce paper and electricity consumption as far as possible and to use recycled materials as much as possible. The latest green office practices adopted by us are summarized below.

#### Paper-reduction Measures

- Sharing documents via the Local Area Network and the Internet by uploading reports, circulars and other documents on the Transport Department Intranet and Internet website
- ➤ Using e-mails and e-memos within the department and, as far as practicable, when communicating with other departments and the public
- Reducing the font size of the letters and characters, and the line spacing for drafting, and preview of documents before final print
- > Issuing tender documents in electronic format
- Printing and photocopying on both sides of paper and on used paper
- Re-using envelopes and loose-minute jackets
- > Sending unclassified documents without using envelopes
- > Sending electronic seasonal greeting cards
- > Sending no originals when these are sent by fax
- Using no covering sheets when documents are faxed
- Using electronic devices to carry departmental publications and consultancy study reports instead of hard copies
- Monitoring the quantity of paper consumed
- Adopting e-Filing system where appropriate





The situation of paper consumption since 2010 is shown in the following table:

		1 1										
Year	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
A4 Paper												
equivalent	27,477	29,464	28,426	28,732	28,804	32,615	28,731	30,982	34,076	30.910	29,854	35,158
(reams)												

#### Energy-saving Measures

- Monitoring and promoting energy-savi g measures (e.g. switching off air-conditioning units, computers, etc.) by designated staff
- Setting the air conditioning temperature to  $25.5^{\circ}$ C in the summer months
- Save 節約能源 ENERGY HAND
- Reminding all staff to switch off lights when not in office
- Turni g off unnecessary lighting whe the area is not i use and affixing "Save Energy" stickers near switches to remind staff to save e ergy
- Turni g off some air-conditioning units whe the occupa cy is low (e.g. after normal office-hours)
- Reminding all staff to set all computers and office equipment to energy-saving mode during office hours and to turn them off after use
- Adopting a open pla office concept through the use of halfglass walls to allow light to pass through whe designing the layout of a new office
- ➤ Using T8 fluorescent lamps to replace T10 fluorescent lamps for energy savig
- Promoting walking up and dow the floors instead of usi g lifts



#### Recycling Measures

- Providing gree boxes for the collection of waste paper and arra ging with recyclers to collect waste paper for recycling
- Collecting used printer toner cartridges for recycling
- Promoting the use of recycled paper

#### Other Measures

> Practising no-smoki g policy within all our offices



#### **Environmental Objective No. 9 - Staff Awareness**

We strive to develop a gree culture withi the Department and promote e vironmental consciousness. To this end we arra ged colleagues to attend relevant seminars and programmes on environmental protection, and uploaded relevant information to our intranet for colleagues' refere ce.

## **ENVIRONMENTAL ACHIEVEMENTS IN 2021**

The progress/achievements versus the targets for 2021 are summarized in the following table.

Obj	jectiv	⁄es		2021 Targets		Progress & Achievements
Reduction	in	Vehicular	(i)	To continue the existing bus-rail interchange	e (i)	The details of bus-rail interchange schemes are as
Traffic				schemes		follows:
			(ii)	To continue the existing GMB-rail interchange		• Passengers travelling on MTR Tung Chung Line
				schemes		using adult Octopus were offered \$1 fare discount
			(iii)	To rationalize more bus routes in busy area and on	ı	for interchanging with New Lantau Bus (NLB)
				busy road		routes 37, 37H, 37P, 37M, 38, 38X, 39M, N37 and
						N38 at Tung Chung Station or vice versa;
						• Passengers travelling on MTR Disneyland Resort
						Line or Tung Chung Line using adult Octopus were
						offered \$1 fare discount for interchanging with CTB
						route B5 at Disneyland Resort or Sunny Bay
						Stations or vice versa. Besides, passengers could
						also enjoy free interchange on MTR feeder bus
						routes K12, K14, K17 and K18 which were
						operated by KMB at Tai Po Market Station or vice
						versa <sup>2</sup> ; and
						• To promote Tuen Ma Line, a "Special Interchange

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<sup>&</sup>lt;sup>2</sup> MTRCL offers free transfer on MTR bus routes for Tuen Ma Line and Light Rail passengers in North-west Transit Service Area at the moment.

Objectives	2021 Targets	Progress & Achievements
		Discount" in collaboration with franchised bus
		operators was introduced until 1 January 2022.
		Adult Octopus users were offered \$1 fare discount
		for interchanging between designated MTR stations
		and eighteen franchised bus routes (CTB routes 20,
		22, 22M and KMB routes 3B, 5, 5A, 5C, 5D, 5P, 6F,
		11, 11K, 11X, 12A, 15X, 21, 26 and 28), while other
		Octopus holders (including children, elderly,
		persons with disabilities and students) were offered
		\$0.5 fare discount.
		(ii) The details of GMB-rail interchange schemes are as
		follows:
		• Passengers were offered \$0.3 to \$3.0 fare discount
		for interchanging between over 500 GMB routes
		and MTR; and
		To promote Tuen Ma Line, a "Special Interchange
		Discount" in collaboration with GMB operators
		was introduced until 1 January 2022. Adult Octopus
		users were offered \$1 fare discount for
		interchanging between designated MTR stations
		and six GMB routes 25A, 25B, 26, 27M, 28MS and
		49, while other Octopus holders (including

Objectives	2021 Targets		Progress & Achievements
			children, elderly, persons with disabilities and
			students) were offered \$0.5 fare discount.
		(iii)	Between 2012 and 2021, the cumulative reduction of
			the number of bus trips in the busy corridors in Central,
			Causeway Bay and Yau Tsim Mong was 6,326.
Reduction of Vehicular (i)	To tighten emission standards for first registered	(i)	The statutory vehicle emission standards for first
Emissions	vehicles		registered vehicles (except for diesel private cars,
			motorcycles and tricycles) have been tightened to Euro VI
			by phases starting from 1 July 2017. This measure was
			completed in 1 March 2021.
		(ii)	The government has implemented an ex-gratia payment
			scheme to phase out Euro IV Commercial Diesel Vehicles
			since 2020. About 6,300 vehicles of this category were
			phased out in 2021.
Use of Alternative Fuel (i)	To phase out old diesel commercial vehicles	(i)	To continuously improve roadside air quality, the
Vehicles to Replace Old (ii)	To continue to encourage more owners to have		Government launched in October 2020 an incentive-cum-
Diesel Vehicles	their old diesel PLBs converted to LPG, Euro VI		regulatory programme to progressively phase out about
	or above or electric ones		40 000 Euro IV diesel commercial vehicles (which
			include goods vehicles, light buses and non-franchised
			buses) by the end of 2027. The Administration limited the
			service life of diesel commercial vehicles newly

Objectives		2021 Targets		Progress & Achievements
				registered on or after 1 February 2014 to 15 years.
			(ii)	The number of licensed LPG PLBs increased from 3,568
				in 2020 to 3,594 in 2021. As at the end of 2021, there
				were 3,594 licensed LPG, 133 licensed Euro IV and 622
				licensed Euro V or above PLBs.
Pedestrian Schemes	(i)	To explore opportunities for the implementation of	(i)	The Administration continued to look for opportunities to
		traffic calming schemes to meet public needs		improve overall pedestrian environment.
Enhancing Walkability	(i)	To identify suitable locations for territory-wide	(i)	Target achieved. Walkability enhancement measures
		application of walkability enhancement measures		are being implemented progressively at the identified
		upon completion of the study on "Enhancing		suitable locations.
		Walkability in Hong Kong"	(ii)	Construction of six walkway covers, where were
	(ii)	To implement the provision of covers to walkways		nominated by District Councils, were completed in 2022.
		connecting public hospitals and other selected		Design work of the walkway covers for 5 public hospitals
		walkways		are in progress.
Efficient Use of Road Space	(i)	To enhance the user interface of "HKeMobility"	(i)	Target achieved.
through Application of		mobile application with personalised traffic and	(ii)	Target achieved, collection and dissemination of real-
Advanced Technologies		public transport information and provide		time traffic data to be continued.
		additional real-time traffic and transport	(iii)	Target achieved.
		information	(iv)	Car journey time surveys were conducted in the 3 <sup>rd</sup> and
	(ii)	To continue the collection and dissemination of		4 <sup>th</sup> quarters and local improvements have been carried out

Objectives	2021 Targets		<b>Progress &amp; Achievements</b>
	real-time traffic data for free download and value-		if necessary.
	added re-use by the public	(v)	Completed installation 5 additional sets of Journey Time
(ii	i) To operate, maintain and enhance the Traffic and		Indication Systems.
	Incident Management System		
(iv	v) To conduct survey to gauge the performance of		
	Area Traffic Control Systems and identify		
	improvements if appropriate		
(v	) To continue the installation of Journey Time		
	Indication Systems		
Saving Electricity and (i)	To contain the electricity consumption of our non-	(i)	Electricity consumption of our non-office facilities in
Maintaining Good Indoor	office facilities to the level of 2019 as far as		2021 was 1.77 million kWh, an increase of 45% as
Air Quality at our facilities	possible.		compared with the consumption in 2019.
(ii	) To contain the electricity consumption of our	(ii)	Electricity consumption of our office facilities in 2021
	office facilities <sup>3</sup> to the level of 2019 as far as		was 3.89 million kWh, an increase of 219% as compared
	possible.		with the consumption in 2019. The increase of electricity
(ii	i) To maintain a "Good/Excellent" class of indoor air		consumption was mainly due to commissioning of the
	quality at our premises eligible to join the IAQ		Transport Department mega Vehicle Examination
	Certification Scheme.		Complex in Tsing Yi. While it has replaced the three
			previous vehicle examination centres and released the
			precious land in urban area for other developments, this

<sup>&</sup>lt;sup>3</sup> Excluding electricity consumption in joint-user government buildings which are reported by the Government Property Agency.

Objectives	2021 Targets	Progress & Achievements
		multi-storey complex (in contrast with the previous openair vehicle examination centres) with increased covered areas requires more artificial lighting and mechanical ventilation, escalators for transportation of public to various floors, and on-site sewage treatment and hence incurs more electricity for operational needs.  (iii) Target achieved.
Green Office Management	(i) To continue with the green office managemen practices	ent (i) Target achieved, green office management practices to be continued.
	(ii) To contain the paper consumption to the level o 2020	of (ii) Paper consumption in 2021 has increased by 17.8% as compared to the consumption in 2020. The increase of
	(iii) To maintain the use of recycle paper to 60% o above of paper consumption	or paper consumption was mainly due to the increase of paperwork in the anti-pandemic campaign.
		(iii) Target achieved, recycle paper contributes 81% of total paper consumption.
Staff Awareness	(i) To enhance staff awareness in related aspect through training and self-learning.	protection were arranged for colleagues.
		(ii) Relevant information was uploaded to intranet for colleagues' reference.

## **OUR 2022 OBJECTIVES & TARGETS**

Objectives	Targ	gets
Reduction in Vehicular Traffic	(i)	To continue the existing bus-rail
		interchange schemes
	(ii)	To continue the existing GMB-rail
		interchange schemes
	(iii)	To rationalize more bus routes in busy
		areas and on busy roads
Reduction of Vehicular Emissions	(i)	In the ex-gratia payment scheme to
		phase out Euro IV Diesel Commercial
		Vehicles, about 6,000 vehicles of this
		category are expected to be phased
		out within 2022.
Use of Alternative Fuel Vehicles to	(i)	To continue to encourage more
Replace Old Diesel Vehicles		owners to have their diesel Public
		Light Buses converted to LPG, Euro
		V or above, or electric ones
Use of New Energy	(i)	To promote the use of new energy in
		private cars and commercial vehicles
	(ii)	To facilitate the Electric Bus Projects
		of the Environmental Protection
		Department and franchised bus
		companies
	(iii)	To take forward the trial of hybrid
		ferries under the Vessel Subsidy
		Scheme
Pedestrian Schemes	(i)	To explore opportunities for the
		implementation of traffic calming
		schemes to meet public needs
Enhancing Walkability	(i)	To continue identifying suitable
		locations for territory-wide
		application of walkability
		enhancement measures
	(ii)	To continue the implementation of
		provision of covers to walkways
		connecting public hospitals and other
		selected walkways

Objectives	Targets	
Efficient Use of Road Space through	(i) To	launch a new version of the
Application of Advanced Technologies	"Н	KeMobility" application
	(ii) To	continue the collection and
	dis	semination of real-time traffic data
	thr	rough HKeMobility and
	DA	ATA.GOV.HK for free download
	and	d value-added re-use by the public
	(iii) To	operate, maintain and enhance the
	Tra	affic and Incident Management
	Sy	stem
	(iv) To	conduct survey to gauge the
	per	rformance of Area Traffic Control
	Sy	stems and identify improvements if
	app	propriate
	(v) To	complete installation of additional
	Jou	urney Time Indication Systems
		progressively implement the Free-
		ow Tolling System at government
		led tunnels and the Tsing Sha
		ontrol Area
		study on "congestion charging" at
		vernment tolled tunnels
Saving Electricity and Maintaining Good		lower the electricity consumption
Indoor Air Quality at our Facilities		our non-office facilities compared
		the level of 2021
		lower the electricity consumption
		our office facilities compared to the
		rel of 2021
	` /	maintain a "Good/Excellent" class
		indoor air quality at our premises
		nich are eligible to join the IAQ rtification Scheme.
Green Office Management		
Office Management		continue with the green office nagement practices
		contain the paper consumption to
		e level of 2021
		maintain the use of recycle paper
	(111) 10	manitain the use of recycle paper

Objectives	Targets					
	to 60% or above of total paper					
	consumption					
Staff Awareness	(i) To enhance staff awareness in related					
	aspects through training and self-					
	learning.					