

**Pearl River Delta Regional Air Quality Management Plan
Enhanced Control Measures of the HKSAR**

Measures	Implementation Programme	Progress (Up to 30.11.2007)
Encourage the replacement of diesel light buses with ones using clean fuel (already commenced)	Since 2002, the Government has offered incentives to diesel light bus owners to encourage replacement of diesel light buses with liquefied petroleum gas (LPG) or electric ones.	The incentive scheme was introduced in August 2002 and completed by 31 December 2005. As at end November 2007, there were over 2,484 public LPG light buses, accounting for 57.1% of the entire public light bus fleet.
Require the retrofitting of particulate removal devices on pre-Euro diesel vehicles (already commenced)	Since 2002, financial assistance has been provided for retrofitting pre-Euro heavy diesel vehicles with particulate removal devices.	Financial assistance was provided in phases from December 2002 to December 2005 to retrofit pre-Euro heavy diesel vehicles with catalytic converters. All together, about 36 500 eligible vehicles were installed with catalytic converters. Since April 2006, all pre-Euro heavy diesel vehicles (including franchised buses), except long-idling ones were required to be installed with approved emission reduction devices. Since April 2007, pre-Euro heavy diesel vehicles which operate under long idling situations (including lorries with cranes mounted, concrete mixers, pressure tankers and gully emptiers) also have to install approved emission reduction devices.
Encourage vehicle owners to replace pre-Euro and Euro I commercial diesel vehicles with Euro IV models	A financial incentive scheme was introduced in the second quarter of 2007.	Since 1 April 2007, the Government offers a time-limited one-off grant to vehicle owners to encourage the early replacement of pre-Euro and Euro I diesel commercial vehicles with new ones which comply with the statutory emission standards for newly registered vehicles (which is now the Euro IV emission standards). A total of 2,892 applications have been approved (as at end November 2007).
Encourage members of the	With effect from 1 April 2007, a 30% reduction in	Since 1 April 2007, a reduction in the First Registration Tax is applied to the purchase of environment-friendly private petrol vehicles.

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public to use environmentally friendly petrol private vehicles	the First Registration Tax was offered, subject to a cap of \$50,000 per vehicle.	A total of 2,800 environment-friendly private petrol vehicles were covered under the scheme (as at end November 2007).
Require drivers to switch off idling vehicles with running engines	(New item included in December 2007) To consult the public on the proposal to introduce a statutory ban on running vehicle engines while waiting.	We launched the public consultation on 2 November 2007 which would end on 31 March 2008. We will take into account of all the views received before finalizing the proposal.
Strengthen the control of emissions from petrol and LPG vehicles	(New item included in December 2007) To consult stakeholders on proposals to strengthen the control of emissions, including the use of roadside remote sensing device and chassis dynamometer for emission testing.	We are in the process of finalizing the consultation paper which will be published in early 2008.
Enhance the vapour recovery systems in petrol filling stations	The Air Pollution Control (Petrol Filling Stations) (Vapour Recovery) Regulation was amended in 2004 to require the recovery of petrol vapour emitted during vehicle refuelling at petrol filling stations, with effect from 31 March 2005.	Since 31 March 2005, all newly built petrol filling stations have to be installed with vapour recovery systems. Also, all existing stations are required to be retrofitted with the system by 31 March 2008.
Tighten motor fuel standard	Motor fuel standard were tightened to Euro IV standard by 2005 (motor diesel standard has already been tightened to Euro IV	Euro IV petrol standard came into effect on 1 January 2005.

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	standard since 2002).	
	(New item included in December 2007) To introduce the supply of motor vehicle fuels meeting the Euro V standard.	The duty rate for Euro V motor vehicle diesel would be reduced to \$0.56 per litre starting 1 December 2007 for a period of two years so as to encourage the early supply of more environment-friendly fuel on the local market.
Tighten the emission standard for newly registered vehicles	Euro IV emission standard was adopted since 2006.	Euro IV emission standard was introduced on 1 January 2007 for all newly registered vehicles.
	To be in line with EU in adopting Euro V motor vehicles standard for tailpipe emissions.	Planned to adopt Euro V standard for tailpipe emissions from heavy-duty vehicles exceeding 3.5 tonnes on 1 October 2009, in tandem with EU.
Use of cleaner fuels by ferries	(New item included in December 2007) To look into the use of cleaner fuels by ferries.	We have set up a working group comprising relevant bureaux/departments to look into the use of cleaner fuels by ferries. The working group will consider, inter alia, inviting ferry operators to conduct a trial of using cleaner fuels in ferries. Subject to the findings, we would draw up possible options to encourage ferry operators to switch to using cleaner fuels.
Reduce VOC emissions from the printing process, paints and consumer products	To introduce legislation in 2004 or 2005 to require the labeling of VOC content on VOC products.	Since 1 April 2007, the Government has enforced the new Regulation in phases to restrict the VOC content of architectural paints/coatings, printing inks and six major types of selected consumer products (i.e. air fresheners, hairsprays, multi-purpose lubricants, floor wax strippers, insecticides and insect repellents). Lithographic heatset printing machines are also required to be installed with emission control devices from 1 January 2009.
	Legislation will then be introduced in phases to reduce the use of products with high VOC contents and to impose emission standards for the printing process.	

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Reduce emissions from power stations	Effective and flexible mechanisms (which may include emission trading) will be set up to control the total emissions of SO ₂ , NO _x and RSP from power stations to achieve respective reduction targets by 2010.	<p>The Government approved the emission reduction options set out in the financial plans of the two power companies in June 2005. CLP Power Hong Kong Limited (CLP) will provide desulphurization and denitrification systems for four of its coal-fired generating units each of 677MW. Hong Kong Electric Co. Ltd. (HEC) will provide low-NO_x burners and desulphurization systems for two of its coal-fired generating units each of 350MW.</p> <p>CLP has been increasing the use of ultra low sulphur coal and is seeking to increase natural gas supply through the development of liquefied natural gas reception facilities.</p> <p>HEC had commissioned its first natural gas generation unit of 335MW in October 2006. The first commercial scale wind turbine power generation unit of 800kW was also commissioned in Hong Kong in February 2006.</p>
	Control total emissions from power plants.	<p>Emission caps have been included in the Special Process Licences (SPLs) granted to CLP's Castle Peak Power Station, Black Point Power Station and Penny's Bay Power Station as well as HEC's Lamma Power Station. Emission caps will gradually be tightened with a view to reducing emissions to the practical minimum and achieving the 2010 reduction targets.</p> <p>The Air Pollution Control Ordinance is being amended to facilitate the power companies to conduct emissions trading, and to specify the emission caps for the power companies in 2010 and beyond.</p>
Reduce emissions from industrial and commercial processes	(New item included in December 2007) To mandate the use of ultra-low sulphur diesel (ULSD) in industrial and	We have consulted the trades on the proposal for mandating the use of ULSD in all industrial and commercial processes. We aim to introduce the necessary legislative amendments to effect the proposal in the first half of 2008.

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	commercial processes.	
Enhance energy efficiency of buildings	(New item included in December 2007) To consult the public on the proposal to mandate compliance with the Building Energy Codes (BEC).	The Administration launched a three-month public consultation on the proposal to introduce mandatory implementation of the BECs on 28 December 2007.
Energy Efficiency Labelling Scheme	(New item included in December 2007) To take the Energy Efficiency (Labelling of Products) Bill through the legislative process.	We aim to launch the first phase of the mandatory Energy Efficiency Labelling Scheme within 2008. We will also plan for the second phase of the mandatory scheme with a view to gradually applying the mandatory requirement to more products.
Encourage to adopt cleaner production technologies and processes	(New item included in December 2007) A five-year programme to be launched to give professional and technical support to Hong Kong-owned factories in the Pearl River Delta Region to adopt cleaner production technologies and practices.	We have consulted industry associations on the proposal and secured support from Finance Committee for funding this initiative.