



# AIR QUALITY OBJECTIVES REVIEW

## 空氣質素指標檢討

PUBLIC ENGAGEMENT 公眾參與

Share your views on possible new  
air quality improvement measures



環境保護署  
Environmental Protection Department



## Background and Purpose

The prevailing Air Quality Objectives (AQOs) took effect on 1 January 2014. It is a statutory requirement under the Air Pollution Control Ordinance to review the AQOs at least once every five years. The Environment Bureau embarked on the review in mid-2016, aiming at completing the review and submitting a review report to the Advisory Council on the Environment in 2018. We would like to take this opportunity to gather public views on possible new measures to improve the air quality of Hong Kong.

Current AQOs in Green		World Health Organization Interim Targets ( $\mu\text{g}/\text{m}^3$ )			World Health Organization Air Quality Guidelines ( $\mu\text{g}/\text{m}^3$ )
		IT-1	IT-2	IT-3	
SO <sub>2</sub>	10 min	—————			500
	24 hr	125	50		20
RSP (PM <sub>10</sub> )	24 hr	150	100	75	50
	Annual	70	50	30	20
FSP (PM <sub>2.5</sub> )	24 hr	75	50	37.5	25
	Annual	35	25	15	10
NO <sub>2</sub>	1 hr	—————			200
	Annual	—————			40
O <sub>3</sub>	8 hr	160			100
CO	1 hr	—————			30,000
	8 hr	—————			10,000
Pb	Annual	—————			0.5

Current AQOs



## Key Tasks of the Review

This review is conducted in line with World Health Organization's ( WHO's ) recommendations and the practices of other environmentally advanced countries. Key tasks of the review include:

- 1 appraising the latest development in respect of air science and the health effects of air pollution;
- 2 examining the current air pollution levels and trends, and progress and effectiveness of committed air quality improvement measures;
- 3 identifying new practical air quality improvement measures and conducting cost benefit analysis of the measures;
- 4 developing an air quality management plan for further improving air quality; and
- 5 assessing air quality in future under different control scenarios and the scope for further tightening the AQOs.



## Engagement of Experts and Stakeholders

Engagement of stakeholders is a key part of the review. An AQO Review Working Group ( Working Group ) comprising some 60 members including air scientists, health experts, green groups, chambers of commerce, professional bodies, relevant trades and representatives from Government bureaux and departments has been formed to foster consensus on the review. Under the Working Group, four dedicated Sub-groups are formed to discuss on specific issues. Three Sub-groups on Road Transportation, Marine Transportation, Energy and Power Generation deliberate on possible new air quality improvement measures in their respective expertise. An Air Science and Health Sub-group examines the latest development on air quality standards as well as the assessment of air quality improvements and health effects due to the possible new measures.

Road  
Transportation  
Sub-group



AQO  
Review  
Working  
Group



Energy & Power  
Generation  
Sub-group

Marine  
Transportation  
Sub-group




Air Science &  
Health  
Sub-group



## Discussion on Possible New Air Quality Improvement Measures

A number of possible new air quality improvement measures and the practicability of their implementation have been thoroughly deliberated in the Sub-groups. The Sub-groups considered a wide range of factors and further classified the practicability of the individual possible new measures into four categories including short term, medium term, long term and others.

Possible new air quality improvement measures for other emission sources not covered in the three Sub-groups are also considered in the review. The possible new measures are broadly categorised as follows:



**Road Transportation**

- Tunnel toll policy and toll collection method
- Maintenance and repair of vehicle exhaust system
- Fostering a "pedestrian-friendly" and "bicycle-friendly" environment
- Promotion of low-emission transport mode
- Utilisation of intelligent transport systems
- Land use and transport infrastructure planning
- Managing road space
- Others suggestions ( e.g. setting out objectives / policies to support the use of cleaner vehicle fuels and raise public awareness on environmental protection, promote green living and encourage the public to use public transport systems as well as low emission transportation options. )



### Marine Transportation

- Use of clean fuel
- Technical measures
- Fuel economy, energy efficiency and port management
- Other suggestions such as removing floating rubbish for smooth operation of small local vessels and expediting approval process of new local vessels



### Energy and Power Generation

- Building energy efficiency measures
- Use of renewable energy
- Fuel mix for electricity generation
- Operation of power generation plant
- New solar energy technology
- Use of biomass as fuel
- Energy storage



## Other Emission Sources

Products containing  
volatile organic  
compounds ( VOCs )

Non-road mobile  
machinery

Cooking fumes

Civil aviation

You may visit the full list of the possible new air quality improvement measures and the deliberations about the practicability for their implementation at the AQO Review website.



AQO Review Website  
[goo.gl/BS68eP](http://goo.gl/BS68eP)



## Sharing Your Views on Possible New Air Quality Improvement Measures

Your views will help the Government formulate future strategies for improving our air quality and reviewing the current AQOs:

1 | Any views and comments on possible new air quality improvement measures discussed during the review?

2 | Any other suggestion on possible new air quality improvement measures?

You may visit [www.aqoreview.hk](http://www.aqoreview.hk) to submit your views directly through the online views collection form. You may also download the form and send us your views **on or before 14 October 2017** by one of the following means:

### Post

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### Online Views Collection Form



[www.aqoreview.hk](http://www.aqoreview.hk)