

**THE 1989 WHITE PAPER - PROGRESS AGAINST TARGETS**

The following tables summarize progress made against the targets set out in the 1989 White Paper and all the previous Reviews.

2. **Section A** reports the progress on the 14 outstanding targets listed in the Third Review. Twelve targets were either completed or on-schedule, which is more than 98% of the total 119 items proposed in the White Paper in 1989. The two outstanding items are:

- (a) Commissioning of the Yuen Long/Tuen Mun Refuse Transfer Station; and
- (b) Commissioning of the Centralized Incineration Facility for animal carcasses and clinical waste

The former's delay was due to public objection and tendering complications. The latter was the result of a change in disposal strategy for animal carcasses and clinical waste.

3. **Section B** reports further progress against the 37 outstanding measures proposed in the Second Review. As at August 1997, 33 targets (89%) were completed, on-schedule or on-going. There are delays on the following four items:

- (a) Higher penalties for smoky vehicles;
- (b) Completion of the High Priority Programme of the Sewage Strategy;
- (c) Banning the use of diesel hammer for piling; and
- (d) Introduction of landfill charging.

Progress is being made with a view to completing these targets as soon as practicable.

4. **Section C** reports the progress of the additional measures and new initiatives proposed in the Third Review. A total of 26 out of 28 items (93%) were either completed or on-schedule. Delay was encountered for the following initiatives:

- (a) Commissioning of the low level radioactive waste storage facility; and
- (b) Commissioning of the SUSDEV 21 Study

The former's delay was due to the objection of land owners and green groups on the siting of the facility and the unacceptably high tender price received. The latter study started in September 1997.

5. **Overall**, of the 79 targets reported in this Review, 71 are either completed or on-schedule.

**(A) Progress report on items Listed in Chapter IV of the Third Review  
(White Paper targets)**

| <b>Waste Management</b> |   |   |         |   |
|-------------------------|---|---|---------|---|
| 2.15                    | √ | Commission HKIWTS                                   | 96/97   | Commissioned in April 97.   |
| 2.15                    | √ | Commission WKTS                                     | (97/98) | Commissioned in June 97 .   |
| 2.15                    | L | Commission Yuen Long/Tuen Mun RTS                   | 98/99   | Commissioning deferred to 99/00. Delay due to objections from the public and complications of the tendering process. Tenders to be called in late 97. |
| 2.15                    | O | Commission N Lantau RTS                             | (97/98) | To be commissioned in April 98.   |
| 2.15                    | O | Commission Outlying Islands transfer facilities     | (97/98) | Construction started in early 97.   |
| 2.16                    | √ | Close Pillar Point landfill                         | 95/96   | Closed in Jan 97.   |
| 2.21                    | L | Commission CIF for animal carcasses, clinical waste | 93/94   | Funding support is outstanding. Alternative disposal options are being explored.  |
| <b>Water Pollution</b>  |   |   |         |   |
| 3.25                    | √ | Declare Victoria Harbour WCZ                        | 93      | Declared in phases between 94-96. First phase declared in Nov 94; 2nd phase in Sept 95, 3rd phase in April 96.  |
| 3.25                    | √ | Control effluents in all WCZs                       | 95      | Full control achieved in 96.  |
| <b>Air Pollution</b>    |   |   |         |   |
| 4.28                    | √ | Start phasing out incinerators                      | —       | Staged programme completed. All municipal incinerators were phased out by May 97. [See below, Section B, para 6.20].                                  |
| 4.29                    | √ | Reduce construction dust                            | 92      | Regulatory control to require construction sites to adopt mandatory dust suppression measures was implemented in June 1997.                           |

**Legends:** √ Action completed    L Programme running late    O Action on-going  
**Note:** Target dates in brackets are internal targets, not given in the White Paper.

| <b>Noise</b>                   |   |   |         |  |
|--------------------------------|---|---|---------|--|
| 5.17                           | ✓ | Control noise from vehicles                             | 93      | Legislation introduced into LegCo in December 1995. Regulation to require vehicles to meet stringent noise emission standards for first registration was implemented in August 1996.   |
| <b>Environmental Education</b> |   |   |         |  |
| 8.20                           | ○ | Secure site for environmental resource centre, and open | —       | First resource centre in Wanchai opened in Dec 93. Visitor Centre in Revenue Tower opened in June 94. The second resource centre is being operated by a green group under funding of Environment and Conservation Fund. More centres are planned, for operation by community groups. |
| 8.22                           | ○ | Education Department to set up 3 new field centres      | (93/94) | The second and third centres, on Route Twisk and Cheung Chau, opened in 1995 and 1996. The site for fourth centre has not yet been identified.   |

**(B) Progress Report on Additional Measures described in the**

**Second White Paper Review**

| <b>Conservation</b>      |   |  |   |
|--------------------------|---|--|---|
| 5.35                     | √ | The need for a Conservation Authority will be examined                                   | A review of conservation policy was completed in May 96.  |
| <b>Pollution Control</b> |   |  |   |
| <b>Air</b>               |   |  |   |
| 6.12                     | L | Penalties for smoky vehicles will be increased by 1995                                   | Implementation of a higher penalty scheme depends on a more objective enforcement mechanism, which is now being developed in consultation with the Police.  |
| 6.12                     | √ | Inspection and maintenance programmes for commercial vehicles will be stepped up in 1995 | Smoke inspection by means of smoke meter and checks on air filters and emission control system of a vehicle has been incorporated into the annual inspection of commercial vehicles on a sampling basis.  |
| 6.13                     | ○ | Government will encourage introduction of electric vehicles                              | Electric vehicles have been exempted from first registration tax since 1994. Trial of two electric vehicles ended in 1996. The trial showed that electric vehicle technology is not yet mature and reliable enough for large scale introduction in the local operating environment. |
| 6.15                     | √ | Open burning of refuse in urban areas will be banned by 1994                             | Regulation to prohibit open burning activities was implemented in Feb 1996.   |
| 6.15                     | √ | Construction dust control measures to be implemented in 1994                             | Regulatory control to require construction sites to implement mandatory dust suppression measures came into effect in June 1997.  |
| 6.20                     | √ | Close Kwai Chung incinerator   | Closed in May 97.   |
| 6.21                     | √ | A toxic air contaminant study will be completed by March 95                              | The study on toxic air pollution was completed in mid 1996.   |

|              |   |   |  |
|--------------|---|---|--|
| 6.21         | ○ | A comprehensive programme to control toxic air pollutants will be introduced by 1997                          | Assessment of toxic air pollutants is being undertaken in two air quality monitoring stations. Two air quality monitoring stations were established and put into operation in July 1997 to monitor toxic air pollutants. An air toxics control plan for overall control of toxic air pollutants is under preparation.                                    |
| 6.23         | ○ | Measures to mitigate sick building syndrome will be introduced by 1995  | Consultancy on indoor air pollution was completed. Measures to prevent indoor air pollution being considered.  |
| 6.23         | ✓ | Air quality objectives for semi-enclosed spaces will be established by 1994                                   | Air quality guidelines for road tunnels were promulgated in 1993.  |
| 6.23         | ✓ | Guidelines and practice notes on ventilation design and systems and their operation will be published by 1996 | Practice notes for basement car parks were issued in November 1995 and for transport exchanges in 1997. Compliance with the Practice Notes being monitored. A follow-up survey for some 59 basement car parks conducted in March and April 1997 confirmed significant improvement of the air quality and good compliance with the issued Practice Notes. |
| <b>Water</b> |   |   |  |
| 6.32         | ○ | Measures to control non-point source polluting discharges and toxic discharges will be considered             | Separate studies to develop strategies for dealing with toxic substances and non-source pollution will be commissioned in 1998/99, subject to funding.   |
| 6.53         | ○ | Discussions with PRC on the EIA for the oceanic outfall will continue   | The EIA commenced in May 1996.   |
| 6.56         | L | The High Priority programme of the sewage strategy will be implemented for completion by mid-97               | Delayed due to contractual difficulties. Completion anticipated by 2000.   |
| 6.57         | ✓ | Victoria Harbour WCZ will be declared in phases 1994-97   | Phase 3 came into effect on April 96.  |
| <b>Noise</b> |   |   |  |
| 6.67         | ✓ | Regulations on motor vehicle noise will be proposed in 1994   | Legislation introduced into LegCo in December 1995. Regulation to require vehicles to meet stringent noise emission standards for first registration was implemented in Aug 1996.  |

|      |   |   |   |
|------|---|---|---|
| 6.69 | ✓ | Stricter control on powered mechanical equipment and noisy manual work will be introduced in 1994 | Amendments to Noise Control Ordinance enacted in Jan 94. Resolution tabled in LegCo in Jan 96. Tightened control was implemented in Nov 96.   |
| 6.69 | L | Piling with diesel hammers will be banned in built-up areas by 1994                               | Target implementation date revised to 1997 in Third Review to cater for extensive consultation. Provisions for the control under Noise Control Ordinance made in May 97. Measures to phase out noisy diesel, steam and pneumatic hammers will be implemented in early 1998.   |
| 6.69 | ○ | Use of excavator-mounted breakers in certain works operations will be restricted by 1994          | Target implementation date revised to April 1996 in Third Review. Control to be implemented in stages. Starting from April 96, quiet road opening equipment must be used for night time work. Restriction on other types of construction works under review.  |
| 6.71 | ○ | KCRC and MTRC will introduce noise abatement programmes   | <i>KCR</i> : Noise abatement programme extended to 27 projects. Noise control works at Tai Wo station, Hin Keng and Tai Po Market have been completed.<br><br><i>MTR</i> : All trains will be retrofitted with new wheels sets and noise dampers by 1999. A noise enclosure between Shau Kei Wan Portal and Heng Fa Chuen station will be completed by August 1997. |
| 6.75 | ○ | Scheme to minimise vehicle noise at night will be proposed  | Feasibility of 5 traffic management schemes are currently under study. To start consultation in 1997.   |
| 6.76 | ○ | \$445M will be spent on the School Insulation Programme [by 96]                                   | Around 400 schools have been insulated. Additional 200 schools will be insulated from 1997 to 1999.   |
| 6.76 | ○ | \$101M will be spent on noise mitigation for households affected by ACP [by end 95]               | \$90M has been spent on noise mitigation measures in the form of noise insulation for households affected by ACP [by 1996]. Further \$62M will be spent in 1997.  |
| 6.76 | ○ | More roads will be treated with noise reducing overlay  | All new highways will be treated. About 9.7 km of existing road has been resurfaced, benefiting 13,000 dwellings.   |

| <b>Waste</b>                |   |  |  |
|-----------------------------|---|--|--|
| 6.92                        | L | Charges for solid waste at landfills will be introduced from early 94            | Delayed due to objection from the trade. Charging scheme was modified considerably to address concerns of the trade; negotiation with the trade is on-going with the aim to implement the scheme as soon as possible. The WDO amendment enabling payment in arrears was enacted in Jan 97. |
| 6.94                        | O | Planning for a Centralised Incineration Facility will continue                   | Alternative disposal options and their feasibility are being assessed.   |
| 6.94                        | O | Code of Practice for clinical waste will be published in 1994                    | Code of Practice and draft legislative control framework are being revised to tie in with the alternative disposal arrangements.   |
| <b>Pre-empting Problems</b> |   |  |  |
| 7.7                         | ✓ | Legislation for EIAs will be introduced in 1994                                  | EIA Ordinance was enacted in Jan 1997. To be implemented in early 1998.  |
| 7.39                        | O | Government will plan an overall waste minimisation strategy for HK               | A draft Waste Reduction Plan is the main outcome of the Waste Reduction Study. Public consultation was completed in Aug 1997. The final Waste Reduction Plan will be published and implemented in 1998.  |
| <b>Energy Efficiency</b>    |   |  |  |
| 8.6                         | O | EEAC will complete research on patterns of energy consumption by 1994            | Research completed on a sample of commercial and industrial buildings. Consultant completed an energy end-use database in mid 1997. Enhancement on transport sector energy consumption pattern and MARKAL forecasting model will be completed by end 1997.                                 |
| 8.7                         | ✓ | An Energy Efficiency Display Centre will be set up in the Science Museum by 1996 | Opened in July 1996.   |
| 8.17                        | O | Draft energy codes will be published by the EEAC in 1994                         | Draft lighting and air-conditioning design codes being prepared; consultation in 96/97. Delay caused by need for extensive local data collection.  |



| <b>Global Goals</b>          |   |  |   |
|------------------------------|---|--|---|
| 9.6                          | O | Government will work closely with WWF on a full environmental profile for HK                 | The project began in Dec 95 with funding from the Environment and Conservation Fund and Woo Wheelock Green Fund.  |
| 9.17                         | ✓ | Government will seek extension of Basel Convention to HK                                     | The Convention was extended to Hong Kong in Oct.95.   |
| <b>Shared Responsibility</b> |   |  |   |
| 10.12                        | ✓ | EPD's local control offices will be extended   | Six offices have been set up.   |
| 10.14                        | O | An Environment Resource Centre (ERC) will be opened in 1993; more centres will be considered | Wanchai ERC opened in Dec 93. ED Visitor Centre opened in June 94. The second ERC in Tsuen Wan is being operated by a green group under the funding from Environment and Conservation Fund. |

**(C) Progress Report on Additional Measures/New Initiatives described in the  
Third White Paper Review**

| Para.        | Status | Additional Measures/<br>New Initiatives  | Status as at August 1997  |
|--------------|--------|--|---|
| <b>Waste</b> |        |  |   |
| 2.13         | L      | Commission of a low level radioactive waste storage facility on Siu A Chau in 1997.  | Commissioning of the low level radioactive waste storage facility was delayed due to objections from land owner and green groups, and tender complications. The commission date is deferred to mid-2000   |
| 2.14         | O      | Introduce an improved marine refuse scavenging service in 1996. Further measures to reduce littoral and marine refuse are being considered.  | Number of vessels for garbage reception and floating refuse scavenging increased to 21 and 37 respectively. Six specialised scavenging vessels at a cost of \$37 million being acquired; first two will be delivered in late 1997.  |
| <b>Air</b>   |        |  |   |
| 2.38         | √      | Introduce the most advanced European emission standards and diesel fuel with a sulphur content of 0.05% in 1997.   | Completed. Low sulphur content (0.05%) diesel and Euro II emission standards on large diesel vehicles were implemented on 1 April 1997.   |
| 2.46         | √      | Regulations are being prepared to control the standards of professionals and contractors taking part in asbestos abatement works. Once these are in force an Asbestos Administration Committee will be set up by mid-1996. | Completed. Asbestos Administration Committee was set up in May 1996. Registration of qualified personnel involved in handling asbestos started in May 1996. From June 1997 onwards, only registered personnel and undertakings will be allowed to handle asbestos related work. |
| 2.48         | O      | Practice notes on ventilation in bus termini are being prepared and should be issued in mid-1997.  | Draft Practice Notes were being finalised. The Transport Department and the Electrical and Mechanical Services Department were liaised to improve the ventilation in existing bus termini.  |

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|------|---|--|--|
| 2.48 | O | Regulatory control of air quality in road tunnels is being considered. | Private Members' Bills to bring the air quality standards of the franchised tunnels in line with the latest international trend were enacted in June 1997. Transport Bureau is examining the technical capability of these tunnels to meet the revised, more stringent air quality requirements. |
| 2.50 | √ | Co-ordinating local action to phase out CFCs, HCFCs and halons.        | Import of CFCs for local consumption has been banned since January 1996. Quota control on local consumption of HCFC started in January 1996.   |

### Noise

|      |   |   |   |
|------|---|---|---|
| 2.53 | √ | An amended Technical Memorandum is being prepared to tighten control on the use of diesel hammer pile drivers in populated areas. | Legislation and technical memorandum to phase out the use of noisy percussive hammers including diesel, steam and pneumatic hammers were made in May 1997.  |
| 2.57 | √ | Regulations to control false activation of car burglar alarms will be introduced in early 1996.                                   | Completed. Implemented in April 1997.   |
| 2.58 | O | Legislation to control noise from loudhailers and public address systems on vessels is being considered.                          | A "Guide on the Use of Loudhailers and Public Address Systems on Board of Vessels" has been distributed to the local shipping community. We are considering legislation to facilitate enforcement against vessels which cause unnecessary noise nuisance. |

### Integrated Pollution Control

|      |   |   |   |
|------|---|---|---|
| 2.65 | √ | Establish 'one-stop shop' licensing service for construction industry by end of 1996.     | The 'one-stop shop' licensing service for construction industry has been set up in early 97 and extended to all other sectors by end of 1997. |
| 2.66 | O | Introduction of multi-disciplinary enforcement teams progressively through 1996 and 1997. | On-going.   |

**Conservation**

|      |   |  |  |
|------|---|--|--|
| 2.69 | √ | 14 potential extension sites for Country Parks have been identified. One such site, at Tai Tong, was designated in 95.       | 14 potential sites for Country Parks have been identified. Two such sites at Tai Tong and Wan Tsai, were designated in 1995 and 1996 respectively.   |
| 2.70 | √ | Two marine parks (at Hoi Ha Wan and Yan Chau Tong) and one marine reserve (at Cape D's Aguilar) will be established in 1996. | Hoi Ha Wan Marine Park, Yan Chau Tong Marine Park and Cape D'Aguilar Marine Reserve were designated in July 1996.  |
| 2.70 | √ | A marine sanctuary will be established at Sha Chau and Lung Kwu Chau.  | The Sha Chau and Lung Kwu Chau Marine Park was designated in November 1996.  |
| 2.71 | √ | A consultancy on the management of Mai Po and Inner Deep Bay as a Ramsar site will start in early 1996.                      | The consultancy study on management of Mai Po and Inner Deep Bay was completed in March 1997. The recommendations will be implemented subject to resource allocation.                              |
| 2.71 | √ | Hong Kong is to participate in the East Asia-Australasian Shorebird Reserve Network being set up to protect migratory birds. | The Mai Po and Inner Deep Bay Ramsar site was included in the Network when it was launched in March 1996.  |
| 2.72 | ○ | Two biodiversity baseline surveys have begun: one on terrestrial and freshwater habitats, the other on corals and fishes.    | Both studies are in progress. The former will be completed in May 1998 and the latter in October 1998.   |
| 2.72 | ○ | An artificial reef programme will start in 1996 to enhance fisheries resources and marine biodiversity                       | Preparation for the artificial reefs deployment commenced in July 1996. The first phase of the deployment is planned for December 1997 in the Hoi Ha Wan Marine Park and Yan Chau Tong Marine Park |
| 3.28 | ○ | Firm proposals on a comprehensive conservation policy should be ready by about May 1996.                                     | Firm proposals on the comprehensive conservation policy are being considered by relevant government departments.   |

## Energy Conservation

|      |   |   |   |
|------|---|---|---|
| 2.74 | O | Planning is in hand to extend the voluntary energy efficiency labelling scheme to other kinds of appliance in addition to refrigerators.  | In 1996, room air-conditioners were included into the scheme. It is planned to extend the scheme to cover washing machine by end-1997.  |
| 2.74 | O | Other measures to improve the energy efficiency of buildings at the design stage include the issue for consultation in 1996/97 of draft codes of practice on the design of lighting systems and air-conditioning systems. | Public consultation on draft codes on the design of lighting systems and air-conditioning systems were completed. The results will be submitted to EnAC for endorsement in late 97. Public consultation on draft electrical installation design code started in March 97. |
| 2.74 | O | Publicity materials on promoting energy conservation in the transport sector are being prepared.  | Funding is being sought for the production of the publicity material with an aim for distribution in late 97.   |
| 3.29 | √ | The government intends to set up an Energy Advisory Committee during 1996.  | The Energy Advisory Committee was set up in July 1996.  |

## Sustainable Development

|                |   |  |  |
|----------------|---|--|--|
| 3.24 -<br>3.27 | L | A major consultancy study called SUSDEV21 will start in 1996 (subject to funding approved by the LegCo). | The consultancy study has started in September 1997.         |
| 3.32           | O | To consider how to take the environment factor into account in our statistical system on the economy.    | Detailed study will be carried out under the SUSDEV21 Study. |

## Life Cycle Analysis & Eco-labelling

|      |   |  |                                    |
|------|---|--|------------------------------------|
| 3.40 | √ | In early 1996 the government will commission a \$4.5 million study on life cycle analysis and eco-labelling. | The study was completed in May 97. |
|------|---|--|------------------------------------|

## Toxic Substance Control

2.49 -  
3.42

O

Action is in hand and regulations to control emissions of benzene from petrol filling stations and of perchloroethylene from dry cleaning processes.

Legislation is being prepared to require Petrol Filling Stations to install vapour recovery systems for their dispensing facilities to minimise benzene emissions. The laundry industry is being consulted on the draft regulation to reduce perchloroethylene emissions from dry cleaning processes.