

Head 42 — ELECTRICAL AND MECHANICAL SERVICES DEPARTMENT

Controlling officer: the Director of Electrical and Mechanical Services will account for expenditure under this Head.

Estimate 2002–03	\$289.1m
Establishment ceiling 2002–03 (notional annual mid-point salary value) representing an estimated 376 non-directorate posts at 31 March 2002 reducing by 19 posts to 357 posts at 31 March 2003	\$152.9m
In addition there will be an estimated 12 directorate posts at 31 March 2002 and at 31 March 2003.	
Capital Account commitment balance	\$66.4m

Controlling Officer's Report

From 1 August 1996, expenditure on electrical, mechanical and electronic services is charged to the Electrical and Mechanical Services Trading Fund (EMSTF) and met from revenue from charges on services provided.

2 Expenses incurred on activities which contribute to regulatory and trading services are charged to Head 42 and the proportion attributable to trading services is reimbursed by the EMSTF to General Revenue.

3 Details of expenses incurred on trading services together with performance measures are given in the Annual Report of the EMSTF.

Programmes

Programme (1) Energy supply; electrical, gas and nuclear safety	This programme contributes to Policy Area 4: Posts, Power, Competition Policy and Consumer Protection (Secretary for Economic Services), Policy Area 7: Public Safety (Secretary for Economic Services), Policy Area 9: Internal Security (Secretary for Security) and Policy Area 23: Environmental Protection and Conservation (Secretary for the Environment and Food).
Programme (2) Mechanical engineering installations safety	This programme contributes to Policy Area 5: Travel and Tourism (Secretary for Economic Services) and Policy Area 22: Buildings, Lands and Planning (Secretary for Planning and Lands).
Programme (3) Energy efficiency and air quality	This programme contributes to Policy Area 23: Environmental Protection and Conservation (Secretary for the Environment and Food).
Programme (4) Centralised services and special support	This programme contributes to Policy Area 27: Intra-Governmental Services (Secretary for Works).

Detail

Programme (1): Energy supply; electrical, gas and nuclear safety

	2000–01 (Actual)	2001–02 (Approved)	2001–02 (Revised)	2002–03 (Estimate)
Financial provision (\$m)	97.9	122.0 (+24.6%)	119.9 (–1.7%)	118.8 (–0.9%)

Aim

4 The aim is to safeguard public safety through regulating and monitoring safety and technical standards in respect of electrical and gas equipment and installations, monitoring the operation and development of the electricity utilities and supply, and providing technical support and engineering advice on matters relating to implementation of contingency plans during nuclear emergencies.

Brief Description

5 For the regulation and control function, the department is responsible for the preparation of drafting instructions, administration and enforcement of legislation (Electricity Ordinance and Gas Safety Ordinance) concerning safety of electrical and gas equipment and installations, and dealing with all on-going matters concerning the regulation and monitoring of the activities of the electricity, gas industry and oil supply. The work involves:

Gas Safety

- enforcement of the Gas Safety Ordinance, including registration of gas supply companies, installers and contractors and approval of gas installation applications and inspection of those installations;

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- risk assessment of potentially hazardous installations relating to gas supply and land use planning aspects;
- investigation of gas incidents;
- promotion of gas safety;

LPG Vehicle Safety

- drawing up Codes of Practices on gas safety for LPG filling stations and LPG vehicles and maintenance workshops;
- registering competent persons for maintenance of LPG vehicles and processing type approval of LPG vehicles against gas safety regulations;
- examining gas safety standards and approving applications for construction of LPG filling stations and retrofitted stations, and LPG vehicle maintenance workshops against such standards;
- monitoring the operation of nine dedicated LPG filling stations and the development of three more dedicated stations;
- preliminary assessment of potential LPG filling stations and vehicle maintenance workshops against gas safety standards;

Electrical Safety

- enforcement of the Electricity Ordinance, including registration of electrical workers, contractors and competent persons, recognised certification bodies and recognised manufacturers, and inspection of electrical installations and products;
- investigation of electrical incidents;
- promotion of electrical safety;

Electricity Utility Monitoring (Scheme of Control Agreements)

- annual auditing review of technical performance of electricity utilities;
- annual review of demand side management (DSM) programmes of electricity utilities;
- assessment of electricity utilities' development plans;
- technical advice relating to monitoring of electricity utilities;

Energy Supply

- administration and enforcement of the Oil (Conservation and Control) Ordinance;
- compilation of statistics on oil and gas supply from the oil and gas companies;
- working out a regulatory regime for the electricity supply sector after expiry of the current Scheme of Control Agreements; and
- studying operational and regulatory issues for possible wider use of natural gas in Hong Kong.

6 In 2001, the department continued to meet its targets in respect of gas, LPG vehicle, electrical safety and electricity utility monitoring; and discharge its duties in relation to energy supply.

7 As regards nuclear safety, the department is responsible to provide technical expertise and advice to the Government on matters relating to nuclear power and nuclear emergencies, and to prepare and implement departmental plans in the event of a nuclear emergency. The work involves:

- responding immediately to initial alert;
- interpreting and assessing engineering data/information received;
- keeping abreast of the latest developments on nuclear engineering; and
- planning and participating in exercises and drills in response to nuclear emergencies.

8 In 2001, the department's ability to respond to initial alert and provide technical advice and assessment on nuclear incidents continued to improve through participation in nuclear exercises.

9 The key performance measures are:

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Targets

	Target Working Days	2000 (Actual)	2001 (Actual)	2002 (Plan)
<i>Gas Safety</i>				
registration of installers	14	14	13	13
registration of contractors	60	60	55	55
approval for construction of notifiable gas installations	34#	34	34	34
approval for use of notifiable gas installations	14	14	14	14
approval for use of equipment/materials	30	30	30	30
scheduling and inspection of LPG road tankers and cylinder wagons	21	20	20	20
investigation of reports of illegal installations	10	10	10	10
response to complaints of excessive storage of LPG	2	—	2	2
enlistment of competent persons for LPG installations/gasholders†	30	—	—	30
<i>LPG Vehicle Safety</i>				
enlistment of competent persons for maintenance of fuel systems	30	30	30	30
approval for use of LPG fuel tanks in vehicles	30	30	30	30
approval for construction of filling stations	34#	34	34	34
maintenance workshops.....	34#	34	34	34
approval for use of filling stations	14	14	14	14
maintenance workshops.....	14	14	14	14
<i>Electrical Safety</i>				
registration of electrical workers/ contractors/competent persons	14	14	14	14
registration of recognised certification bodies and manufacturers	20	10	20	20
endorsement of testing certificate of electrical installations.....	14	14	14	14
investigation of incidents/complaints related to electrical installations/ products.....	14	14	14	14
<i>Electricity Utility Monitoring</i>				
conduct an annual technical performance audit on each of the two power companies under the Scheme of Control Agreements	120	120	120	120
provide technical input in the financial auditing review of capital expenditure variances of transmission and distribution projects	60	82	93	60
provide technical advice related to electricity utilities matters.....	14	14	14	14
conduct an assessment of the planning/performance of the two power companies' DSM programmes....	60	27	45	45
conduct a site audit to verify the performance of the two power companies of				
DSM rebate programme on lighting†	42	—	42	42
DSM rebate programme on heating, ventilating and air-conditioning† ..	30	—	—	30

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Nuclear Safety

The target is to ensure the availability of fully trained and competent officers round the clock to provide an immediate response to an initial alert, and to provide technical expertise and advice to the Government on matters relating to nuclear power and nuclear emergencies.

The previous targets were 40 working days. The targets are revised to 34 working days as from 2002 to reflect increased efficiency in the granting of approval for construction of notifiable gas installations, filling stations and maintenance workshops.

† New targets as from 2002.

Indicators

	2000 (Actual)	2001 (Actual)	2002 (Estimate)
<i>Gas Safety</i>			
no. of audit inspections to gas supply companies, contractors and distributors§	327	414	1 679
no. of notifiable gas installation and related inspections†	—	—	915
no. of follow-up inspections and quality assurance visits†	—	—	1 480
no. of applications processed for equipment approval and registration of gas contractors/installers†	—	262	282
no. of LPG road tankers and cylinder wagons inspected	663	673	670
no. of notifiable gas installations approved.....	37	35	35
no. of requests for advice/public enquiries/complaints	6 265	3 993	4 240
no. of gas incidents investigated	523	510	496
no. of prosecutions/improvement notices served	122	129	122
no. of competent persons (for LPG installations/gasholders) enlistment processed†	—	—	13
<i>LPG Vehicle Safety</i>			
no. of competent persons registration processed.....	290	254	250
no. of LPG fuel tanks in vehicles approved	4 434	10 674	4 000
no. of inspections of vehicles, filling stations and maintenance workshops (before grant of approval)	316	230	200
no. of annual inspection of approved filling stations	—	12	24
no. of annual inspection of approved workshops.....	—	15	25
no. of filling stations approved	8	12	20
no. of maintenance workshops approved	12	10	10
no. of requests for advice/public enquiries/complaints	930	887	900
<i>Electrical Safety</i>			
no. of site inspections on electrical installations regular site inspection including following-up.....	8 923	9 660	8 800
no. of site inspections on electrical products.....	3 843	3 782	3 800
no. of electrical worker/contractor/competent person registration applications processed (including renewal).....	7 702	34 629	20 000
no. of recognised certification bodies and manufacturers applications processed	3	6	3
no. of periodic testing certificates of electrical installations processed	7 500	6 868	6 000
no. of electrical incidents investigated	148	258	250
no. of reported unsafe electrical installations/products investigated.....	638	497	500
no. of prosecutions/disciplinary actions conducted.....	687	408	400
no. of requests for advice/enquiries	36 101	62 914	55 000
no. of electrical product tested	80	109	100
<i>Electricity Utility Monitoring</i>			
no. of technical indicators assessed in the annual auditing review to monitor the technical performance of electricity utilities	56	62	62
no. of transmission and distribution projects assessed relating to technical input in the financial auditing review of capital expenditure variances	22	29	29
no. of requests for advice on electricity utilities matters handled	110	117	100
no. of DSM programmes examined in the annual performance/triennial planning assessment.....	35	28	28
no. of DSM rebate programme verified in site audit on lighting†	—	11	12

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	2000 (Actual)	2001 (Actual)	2002 (Estimate)
heating, ventilating and air-conditioning†	—	—	3
<i>Nuclear Safety</i>			
no. of technical co-operation or exchanges participated.....	3	3	3
no. of exercises and drills participated	4	3	3

§ Revised indicator as from 2002. The previous indicator was “no. of visits to gas contractors”.

† New indicators as from 2002.

Matters Requiring Special Attention in 2002–03

10 During 2002–03, the department will:

- finalise Codes of Practices on gas safety for LPG filling stations and LPG vehicles and workshops;
- register competent persons for maintenance of LPG vehicles and process type approval of LPG vehicles against gas safety regulations;
- examine gas safety standards and approve applications for construction of LPG filling stations and LPG vehicle maintenance workshop against such standards;
- monitor the operation of nine dedicated LPG filling stations and the development of three more dedicated stations;
- further develop safety measures for the storage and conveyance of LPG cylinders (including overnight parking of vehicles);
- implement the Code of Practices for LPG distributors with a view to enhancing gas safety;
- finalise and enforce the regulations on approval of domestic gas appliances under the Gas Safety Regulations;
- implement the revised Code of Practices for installation of gas water heaters;
- study the operational and regulatory arrangements for natural gas markets in relevant overseas countries;
- enforce the Electricity Supply Lines (Protection) Regulation;
- finalise the Code of Practices for controlling the electricity supply standards in Hong Kong;
- enhance market surveillance of electrical products;
- review the Demand Side Management Agreements between the Government and the respective power companies;
- conduct follow-up consultancy studies on inter-connection in the electricity supply sector in Hong Kong; and
- examine options and map out the broad direction for the post-2008 electricity supply market regulatory structure.

Programme (2): Mechanical engineering installations safety

	2000–01 (Actual)	2001–02 (Approved)	2001–02 (Revised)	2002–03 (Estimate)
Financial provision (\$m)	20.9	25.5 (+22.0%)	26.6 (+4.3%)	27.6 (+3.8%)

Aim

11 The aim is to safeguard public safety through regulating and monitoring the safety and technical standards in respect of lifts, escalators, builders’ lifts and tower working platforms, amusement rides, trams and other mechanical installations.

Brief Description

12 The department is responsible for the administration and enforcement of various legislation, including the Lifts and Escalators (Safety) Ordinance, the Amusement Rides (Safety) Ordinance, the Aerial Ropeways (Safety) Ordinance, the Builders’ Lifts and Tower Working Platforms (Safety) Ordinance, and certain provisions of the Tramway Ordinance and the Peak Tramway (Safety) Regulations. For practical reasons, activities relating to all such legislation which are under different policy areas are reported under this programme. The work involves:

- preparation of drafting instructions and enforcement of legislation, including registration of contractors, engineers and various competent persons and inspection of installations;
- preparation of Codes of Practices;
- investigation of incidents;
- provision of expert advice; and

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- initiating prosecution and taking disciplinary actions.

13 The department continued to meet its targets in 2001.

14 The key performance measures are:

Targets

	Target Working Days	2000 (Actual)	2001 (Actual)	2002 (Plan)
registration of				
lift/escalator contractors.....	60	60	60	60
lift/escalator engineers	45	45	45	45
endorsement of periodic test certificates for				
lifts and escalators.....	14	14	14	14
builders' lifts and tower working platforms.....	14	14	14	14
issue of permits to use for				
lifts and escalators.....	14	14	14	14
builders' lifts and tower working platforms.....	14	14	14	14
amusement rides.....	14	14	14	14
approval of design and construction of amusement rides (capacity \leq 20 persons)	40	40	40	40
amusement rides (capacity \geq 21 persons)	55	55	55	55
builders' lifts and tower working platforms.....	40	40	40	40

Indicators

	2000 (Actual)	2001 (Actual)	2002 (Estimate)
no. of certificates processed			
lifts and escalators.....	50 624	52 799	54 300
builders' lifts and tower working platforms.....	487	377	380
no. of inspections			
lifts and escalators			
total	3 718	4 581	4 600
lift and escalator.....	—	3 595	3 450
aged lifts.....	—	986	1 150
% of existing lifts and escalators.....	8.4	9.9	9.5
builders' lifts and tower working platforms.....	275	284	280
amusement rides.....	2 042	2 240	2 000
peak tramway	12	14	14
tramway	205	209	200
aerial ropeways	28	24	24
no. of investigations required (no.)	175	211	200
no. of incident/1 000 registered lifts	1.5	2.6	2.3
no. of incident/100 registered escalators.....	11.3	11.2	11.5
expenditure per registered lift/escalator (\$)	198	227	227
no. of requests for advice/enquiries/complaints.....	2 258	2 082	2 100

Matters Requiring Special Attention in 2002–03

15 During 2002–03, the department will:

- implement a monitoring programme to ensure the safety of lifts over 20 years old;
- introduce amendments to the Lifts and Escalators (Safety) Ordinance to provide for registration and regulation of lift and escalator workers;
- assess the design of a proposed aerial ropeway on Lantau Island;
- introduce amendments to the Aerial Ropeways (Safety) Ordinance and subsidiary regulations;
- amend the Code of Practices for Aerial Ropeways;
- develop the programme and procedures for the design submission and approval of amusement rides in Hong Kong Disneyland;

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- organise a joint lift and escalator safety campaign with other public organisations;
- conduct a study to examine options to enhance the existing practice of the vehicle maintenance industry; and
- prepare the Code of Practices for Amusement Rides.

Programme (3): Energy efficiency and air quality

	2000-01 (Actual)	2001-02 (Approved)	2001-02 (Revised)	2002-03 (Estimate)
Financial provision (\$m)	45.5	72.1 (+58.5%)	62.0 (-14.0%)	70.1 (+13.1%)

Aim

16 The aim is to promote energy conservation and efficiency as well as indoor air quality.

Brief Description

17 The department is responsible for providing technical support to relevant bureaux on the development and implementation of energy efficiency policy as well as co-ordination with international organisations on this front; and providing technical support in the territory-wide indoor air quality programme. The work involves:

- research on energy efficiency and conservation issues;
- providing support to relevant bureaux and the Energy Advisory Committee on the development of energy efficiency and conservation programmes and implementation plans;
- preparation of Codes of Practices and implementation schemes;
- implementation of energy efficiency and conservation programmes;
- promotion of the use of water-cooled air-conditioning system in Hong Kong;
- investigation into the potential use of renewable energy for Hong Kong;
- examination of the need for statutory requirements on energy efficiency and conservation;
- liaison with regional and international energy organisations; and
- conducting an indoor air quality survey for government buildings.

18 In 2001, the department met most of its targets. The Energy Efficiency Office published the Lift and Escalator Energy Code, launched Energy Efficiency Labelling Schemes for electric rice cooker and multi-function devices and updated the Hong Kong Energy End-use Database to include 1999 data.

19 The key performance measures are:

Targets

	Target	2000 (Actual)	2001 (Actual)	2002 (Plan)
<i>Energy Efficiency</i>				
development of Energy Efficiency				
Labelling Schemes for electrical				
appliances (cumulative % completed) ...	1 scheme for	100	—	—
	water heater by			
	end 2000			
	1 scheme for	100	—	—
	photocopier by			
	end 2000			
	1 scheme for	—	100	—
	multifunction			
	device by			
	end 2001			
	1 scheme for	—	100	—
	rice cooker by			
	end 2001			
	1 scheme for	—	—	100
	household			
	appliance by			
	end 2002†			

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	Target	2000 (Actual)	2001 (Actual)	2002 (Plan)
	1 scheme for office equipment by end 2002†	—	—	100
development of Energy Efficiency Labelling Schemes for vehicles (cumulative % completed)†	1 scheme for petrol passenger car by end 2000	100	—	—
	1 additional vehicle labelling scheme by end 2002	—	—	100
energy audits for public buildings (cumulative % completed)	additional 27 bldgs by end 2000	100	—	—
	additional 25 bldgs by end 2001	—	100	—
	additional 10 bldgs by end 2002†	—	—	100
updating of the Hong Kong Energy End-use Database (cumulative % completed)	1997 data by mid 2000	100	—	—
	1998 data by end 2000	100	—	—
	1999 data by end 2001	—	100	—
	2000 data by end 2002†	—	—	100
promoting water-cooled air-conditioning system in Hong Kong (cumulative % completed)	to start territorial implementation study in 2000	100	—	—
	to start South East Kowloon development implementation study in 2001	—	100	—
	to start Wanchai and Causeway Bay implementation study in 2001	—	100	—
	to complete territorial implementation study in 2001	—	100	—
	to complete South East Kowloon development implementation study in 2002†	—	—	100
study of the wider use of renewable energy (cumulative % completed)†	to start pilot project on photovoltaic panel	—	100	—

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Target	2000 (Actual)	2001 (Actual)	2002 (Plan)
study of performance-based Building Energy Code using total-energy-budget approach (cumulative % completed).....	—	100	—
to start in late 2001			
study for the development of guidelines on the assessment of life-cycle energy cost of building construction (cumulative % completed)†	—	—	100
to start in 2002			
<i>Indoor Air Quality</i>			
indoor air quality survey for selected government buildings (cumulative % completed)	100	—	—
70 bldgs by end 2000			

† New targets as from 2002.

Indicators

	2000 (Actual)	2001 (Actual)	2002 (Estimate)
<i>Energy Audit</i>			
no. of public buildings			
under investigation	30	15	10
audit survey completed	27	25	10
cumulative no. of audit	129	154	164
cumulative energy saving per year through good operation and house keeping (Tera Joule)	46	47	48
<i>Energy Efficiency Labelling Scheme – Electrical Appliances</i>			
types of products under investigation	2	2	2
testing procedures being developed	2	2	2
schemes implemented	7	9	11
<i>Energy Efficiency Labelling Scheme – Vehicles†</i>			
types of vehicles under investigation†	1	—	1
testing procedures being developed†	1	—	1
schemes implemented†	—	—	1
<i>Energy Code</i>			
no. of building energy codes being implemented	4	4	4
no. of building energy codes being developed	1	—	1
no. of building energy codes under review	2	3	2
no. of building energy codes review completed	—	2	2
<i>Updating of Hong Kong Energy End-use Database</i>			
year updated	1997 & 1998	1999	2000
<i>Energy Consumption Survey</i>			
no. of survey being implemented	—	2	1
no. of survey completed	—	1	1
<i>Energy Consumption Indicators</i>			
no. of segments/end-uses under investigation	4	4	2
no. of segments/end-uses with indicators developed	—	—	4
<i>Water-cooled Air-conditioning System</i>			
no. of studies being conducted	1	2	1
no. of studies completed	—	1	2
<i>Energy Advisory Notes and Guidelines</i>			
no. of Energy Advisory Notes and Guidelines being developed	3	2	2
issued	3	3	2
<i>Renewable Energy</i>			
no. of studies being conducted	—	1	1
no. of pilot project being conducted	—	1	1
no. of pilot project being completed†	—	—	1

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† New indicators as from 2002.

Matters Requiring Special Attention in 2002–03

20 During 2002–03, the department will:

- continue to administer and maintain an updated energy end-use database for Hong Kong;
- review the proposal to introduce statutory requirements on energy efficiency and conservation;
- continue to implement new voluntary Energy Efficiency Labelling Schemes – one for a household appliance and one for an office equipment;
- work towards a new Energy Efficiency Labelling Scheme for vehicles;
- review the Lift and Escalator and Electrical Installations Energy Codes for buildings;
- implement energy management opportunities in selected government buildings;
- consider the recommendations of the consultancy study on the territory-wide implementation of water-cooled air-conditioning systems in Hong Kong;
- consider and implement relevant recommendations of the consultancy study on district cooling system in South East Kowloon Development;
- implement pilot schemes for innovative energy efficient equipment;
- review the implementation of Building Energy Code under the Energy Efficiency Registration Scheme for Buildings;
- promote the application of energy performance contracting to enhance energy efficiency;
- carry out energy consumption surveys for households and for selected vehicle groups;
- establish and update energy consumption indicators and targets for selected segments/end-uses in the transport and commercial sectors and promote the use of energy consumption benchmarking;
- conduct a study for the development of performance-based Code of Practices for energy efficient buildings using total-energy-budget approach;
- conduct a study for the development of guidelines on the assessment of life-cycle energy cost of building design and construction;
- complete stage one of the renewable energy study to identify potential renewable energy sources applicable in Hong Kong;
- conduct stage two of the renewable energy study to install building-integrated photovoltaic system in one government building; and
- develop an innovative energy efficiency publicity and education programme with a view to further promote public awareness.

Programme (4): Centralised services and special support

	2000–01 (Actual)	2001–02 (Approved)	2001–02 (Revised)	2002–03 (Estimate)
Financial provision (\$m)	64.4	71.6 (+11.2%)	70.3 (–1.8%)	72.6 (+3.3%)

Aim

21 The aim is to provide efficient and cost-effective centralised services and specialist support to other departments.

Brief Description

22 The department provides contract management services for simultaneous interpretation systems and co-ordinates the demolition of decommissioned incineration plants. In 2001, the department implemented a two-phased programme for the inspection of the operating condition of the existing evaporative cooling towers in Hong Kong.

23 In 2001, the department broadly achieved the aim of the programme and substantially completed the disposal of ozone depleting chemicals retired from fire fighting and air-conditioning installations.

24 The key performance measures are:

Targets

To ensure the provision of adequate technical support for simultaneous interpretation services and to examine the operating condition of evaporative cooling towers.

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Indicators

	2000 (Actual)	2001 (Actual)	2002 (Estimate)
<i>Simultaneous Interpretation</i>			
compliance ratio on scheduled simultaneous interpretation meetings.....	100%	100%	100%
compliance ratio on ad hoc simultaneous interpretation meetings (within 8 hours' notice)	100%	100%	100%
<i>Evaporative Cooling Towers</i>			
no. of inspections.....	—	3 000	9 500

Matters Requiring Special Attention in 2002–03

25 During 2002–03, the department will:

- co-ordinate the planning and design of the demolition of the Kwai Chung Incineration Plant and the Kennedy Town Incineration Plant; and
- start the second phase inspections of the operating condition of the existing evaporative cooling towers in Hong Kong; and advise the owners on the proper design, operation and maintenance of the towers in line with the Code of Practices issued on this subject.

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ANALYSIS OF FINANCIAL PROVISION

Programme	2000-01 (Actual) (\$m)	2001-02 (Approved) (\$m)	2001-02 (Revised) (\$m)	2002-03 (Estimate) (\$m)
(1) Energy supply; electrical, gas and nuclear safety.....	97.9	122.0	119.9	118.8
(2) Mechanical engineering installations safety.....	20.9	25.5	26.6	27.6
(3) Energy efficiency and air quality.....	45.5	72.1	62.0	70.1
(4) Centralised services and special support.....	64.4	71.6	70.3	72.6
	<u>228.7</u>	<u>291.2</u> (+27.3%)	<u>278.8</u> (-4.3%)	<u>289.1</u> (+3.7%)

Analysis of Financial and Staffing Provision

Programme (1)

Provision for 2002-03 is \$1.1 million (0.9%) lower than the revised estimate for 2001-02. This is mainly due to the reduction in expenditure upon completion of some capital account items and the deletion of four posts and reduced operating expenses under the Enhanced Productivity Programme.

Programme (2)

Provision for 2002-03 is \$1.0 million (3.8%) higher than the revised estimate for 2001-02. This is mainly due to the creation of two posts for assessing the design of a proposed aerial ropeway on Lantau Island and for strengthening the technical support to the Hong Kong Disneyland project as well as increased provision for a study to examine options to enhance the existing practice of the vehicle maintenance industry. The increase is partly offset by deletion of one post and reduced operating expenses under the Enhanced Productivity Programme.

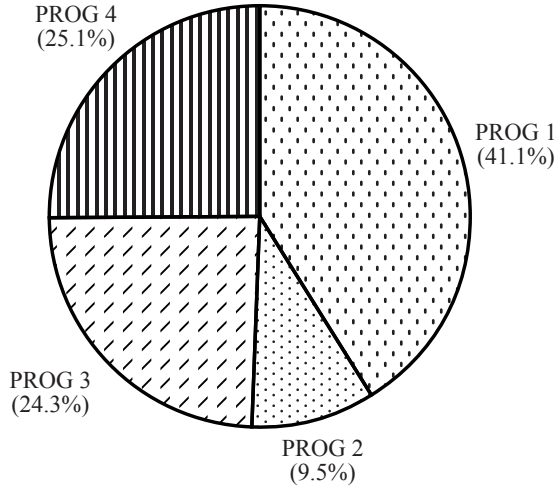
Programme (3)

Provision for 2002-03 is \$8.1 million (13.1%) higher than the revised estimate for 2001-02. This is mainly due to increased provision and cashflow requirement in carrying out consultancy studies on implementation of water-cooled air-conditioning system in selected districts, potential application of renewable energy and developing guidelines on the assessment of life-cycle energy cost of building design and construction. The increase is partly offset by the deletion of one post and reduced operating expenses under the Enhanced Productivity Programme.

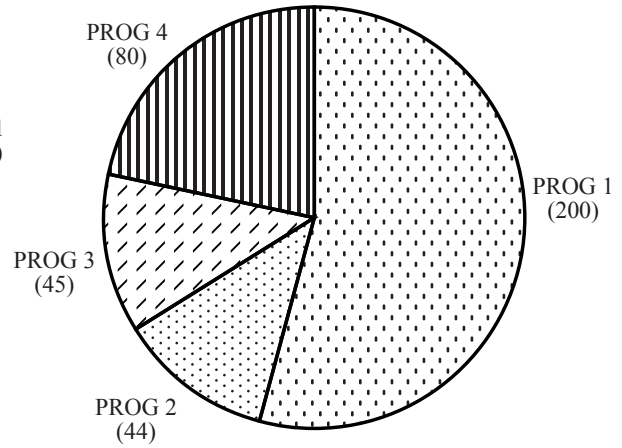
Programme (4)

Provision for 2002-03 is \$2.3 million (3.3%) higher than the revised estimate for 2001-02. This is mainly due to increased cashflow requirement for a capital account item for inspecting the operating condition of the existing evaporative cooling towers, partly offset by the deletion of eight posts and reduced operating expenses under the Enhanced Productivity Programme and deletion of seven posts due to the contracting out of the receipt and despatch services.

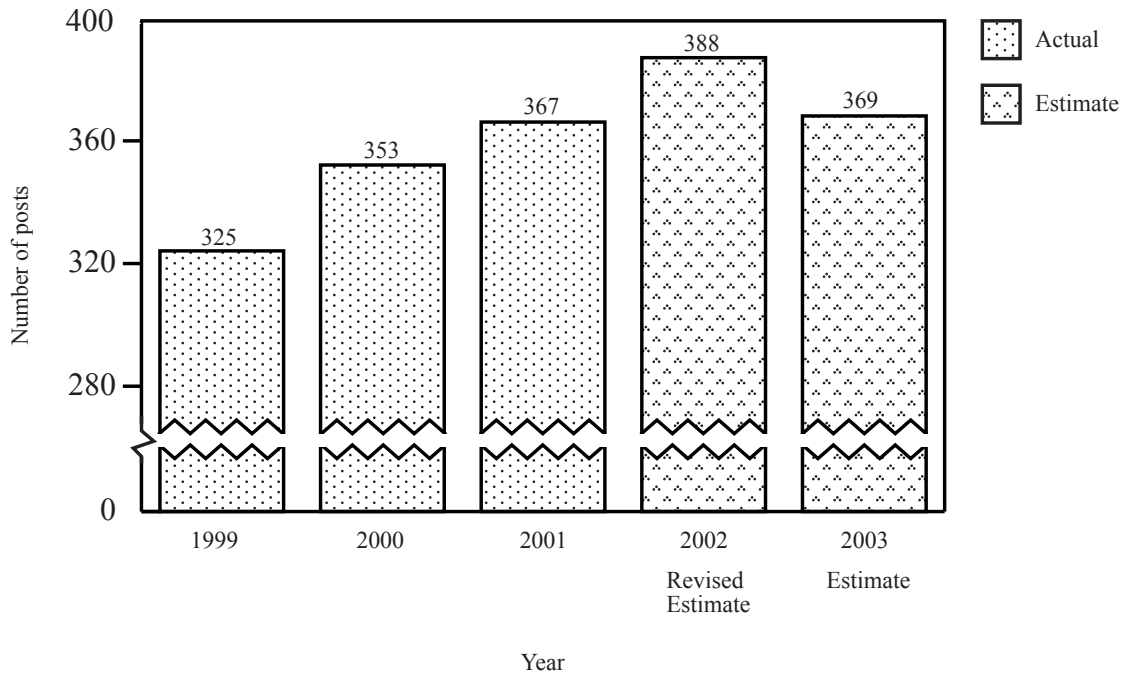
Allocation of provision to programmes (2002-03)



Staff by programme (as at 31 March 2003)



Changes in the size of the establishment (as at 31 March)



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Sub-head (Code)	Actual expenditure 2000-01	Approved estimate 2001-02	Revised estimate 2001-02	Estimate 2002-03	
	\$'000	\$'000	\$'000	\$'000	
Recurrent Account					
I — Personal Emoluments					
001	Salaries	164,097	176,950	185,058	183,300
002	Allowances	3,190	4,384	4,675	4,755
007	Job-related allowances	61	188	158	195
	Total, Personal Emoluments	<u>167,348</u>	<u>181,522</u>	<u>189,891</u>	<u>188,250</u>
III — Departmental Expenses					
102	Technical Services Agreement	12,314	12,706	12,087	12,509
149	General departmental expenses	28,689	37,595	37,500	35,675
	Total, Departmental Expenses	<u>41,003</u>	<u>50,301</u>	<u>49,587</u>	<u>48,184</u>
	Total, Recurrent Account	<u>208,351</u>	<u>231,823</u>	<u>239,478</u>	<u>236,434</u>
Capital Account					
I — Plant, Equipment and Works					
	Minor plant, vehicles and equipment (block vote)	1,088	—	—	—
	Total, Plant, Equipment and Works	<u>1,088</u>	<u>—</u>	<u>—</u>	<u>—</u>
II — Other Non-Recurrent					
700	General other non-recurrent	19,255	59,417	39,369	52,651
	Total, Other Non-Recurrent	<u>19,255</u>	<u>59,417</u>	<u>39,369</u>	<u>52,651</u>
	Total, Capital Account	<u>20,343</u>	<u>59,417</u>	<u>39,369</u>	<u>52,651</u>
	Total Expenditure	<u><u>228,694</u></u>	<u><u>291,240</u></u>	<u><u>278,847</u></u>	<u><u>289,085</u></u>

Head 42 — ELECTRICAL AND MECHANICAL SERVICES DEPARTMENT

Details of Expenditure by Subhead

The estimate of the amount required in 2002–03 for the salaries and expenses of the Electrical and Mechanical Services Department is \$289,085,000. This represents an increase of \$10,238,000 over the revised estimate for 2001–02 and of \$60,391,000 over actual expenditure in 2000–01.

Recurrent Account

Personal Emoluments

2 Provision of \$188,250,000 for personal emoluments represents a decrease of \$1,641,000 against the revised estimate for 2001–02.

3 The establishment at 31 March 2002 will be 388 permanent posts. It is expected that a net 19 permanent posts will be deleted in 2002–03.

4 Subject to certain conditions, the controlling officer may under delegated powers create or delete non-directorate posts during 2002–03, but the notional annual mid-point salary value of all such posts must not exceed \$152,902,000.

5 Provision of \$4,755,000 under *Subhead 002 Allowances* is for standard allowances.

6 Provision of \$195,000 under *Subhead 007 Job-related allowances* is for standard job-related allowances. This represents an increase of \$37,000 (23.4%) over the revised estimate for 2001–02 and is mainly due to increased requirement for inspectorate grade officers performing shift duties and on-call duties.

Departmental Expenses

7 Provision of \$12,509,000 under *Subhead 102 Technical Services Agreement* is to meet payments to Reach Networks Hong Kong Limited for services provided under the Technical Services Agreement.

8 Provision of \$35,675,000 under *Subhead 149 General departmental expenses* represents a decrease of \$1,825,000 (4.9%) against the revised estimate for 2001–02. This is mainly due to reduced operating expenses under the Enhanced Productivity Programme and decreased provision for payment of salaries to non-civil service contract staff. The decrease is partly offset by the additional recurrent expenditure relating to the operation of a computer system.

Head 42 — ELECTRICAL AND MECHANICAL SERVICES DEPARTMENT

Capital Account

Commitments

Sub-head (Code)	Item (Code)	Ambit	Approved commitment	Accumulated expenditure to 31.3.2001	Revised estimated expenditure for 2001-02	Balance
			\$'000	\$'000	\$'000	\$'000
700		<i>General other non-recurrent</i>				
	692	Employment of international consultants to conduct studies of the two power companies.....	4,939	4,124	500	315
	695	Consultancy study on the activities of the two power companies under the Scheme of Control Agreements (2000-01).....	1,300	487	340	473
	697	Pilot indoor air quality certification programme for government buildings.....	5,400	4,592	540	268
	698	Consultancy study on developing energy consumption indices for Hong Kong.....	5,800	506	3,100	2,194
	700	Consultancy on interconnection capacity between Hong Kong's power companies.....	9,000	338	3,500	5,162
	702	Territory-wide implementation study for water-cooled air-conditioning systems in Hong Kong.....	13,600	2,251	8,800	2,549
	703	Implementation study for a district cooling system at South East Kowloon Development.....	11,000	650	4,400	5,950
	704	Study on potential applications of renewable energy in Hong Kong.....	16,500	637	3,000	12,863
	705	Implementation study for water-cooled air-conditioning systems in Wanchai and Causeway Bay Districts.....	9,000	—	300	8,700
	706	Hire of services for inspection of the existing cooling towers in Hong Kong.....	9,000	—	1,800	7,200
	708	Training programme to core staff for the Electricity Market Reform.....	1,000	—	200	800
	709	Intensified market surveillance on the implementation of the Electrical Products (Safety) Regulation.....	1,500	—	500	1,000
	710	Publicity and Public Education Programme in gas and electrical safety.....	2,000	—	1,500	500
	711	Consultancy studies of the two power companies under the Scheme of Control Agreement (2001).....	1,500	—	600	900
	712	Consultancy study on developing a performance-based building energy code.....	3,000	—	1,000	2,000
	713	Transport energy consumption survey for selected vehicle groups.....	1,200	—	200	1,000
	714	Installation of innovative energy efficient equipment in government buildings.....	3,000	—	1,500	1,500
	715	Consultancy study on the feasibility of introducing LPG light vans and light goods vehicles in Hong Kong.....	1,300	—	1,235	65
	716	Energy retrofitting project for Kwai Chung District Headquarters Police Station.....	700	—	200	500

Head 42 — ELECTRICAL AND MECHANICAL SERVICES DEPARTMENT

Capital Account—Cont'd.

Commitments—Cont'd.

Sub-head (Code)	Item (Code)	Ambit	Approved commitment	Accumulated expenditure to 31.3.2001	Revised estimated expenditure for 2001-02	Balance
			\$'000	\$'000	\$'000	\$'000
700		<i>General other non-recurrent—Cont'd.</i>				
	717	Employment of international consultants to conduct studies relating to the activities of the two power companies (2002-04).....	2,000	—	—	2,000
	718	Study for the preparatory and research work of formulating and administering the registration scheme for vehicle mechanics/ technicians and garages.....	1,400	—	—	1,400
	719	Development of innovative energy efficiency publicity and public education programme.....	1,500	—	—	1,500
	720	Lift and Escalator Safety Campaign.....	600	—	—	600
	721	Study for the development of guidelines on the assessment of Life-cycle Energy Cost of Building Construction.....	7,000	—	—	7,000
		Total	<u>113,239</u>	<u>13,585</u>	<u>33,215</u>	<u>66,439</u>