

Head 42 — ELECTRICAL AND MECHANICAL SERVICES DEPARTMENT

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

Estimate 2005–06..... **\$267.4m**

Establishment ceiling 2005–06 (notional annual mid-point salary value) representing an estimated 330 non-directorate posts as at 31 March 2005 reducing by five posts to 325 posts as at 31 March 2006 **\$127.2m**

In addition, there will be an estimated 12 directorate posts as at 31 March 2005 and as at 31 March 2006.

Commitment balance **\$12.4m**

Controlling Officer's Report

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 Development and Labour), Policy Area 7: Public Safety (Secretary for Economic Development and Labour), Policy Area 9: Internal Security (Secretary for Security) and Policy Area 23: Environmental Protection and Conservation (Secretary for the Environment, Transport and Works).

Programme (2) Mechanical engineering installations safety

This programme contributes to Policy Area 5: Travel and Tourism (Secretary for Economic Development and Labour) and Policy Area 22: Buildings, Lands and Planning (Secretary for Housing, Planning and Lands).

Programme (3) Energy efficiency and conservation, and alternative energy§

This programme contributes to Policy Area 23: Environmental Protection and Conservation (Secretary for the Environment, Transport and Works).

Programme (4) Centralised services and special support

This programme contributes to Policy Area 27: Intra-Governmental Services (Secretary for the Environment, Transport and Works).

§ Rephrased from “Energy efficiency and air quality” to “Energy efficiency and conservation, and alternative energy” as the focus of the programme will shift from promotion of indoor air quality to promotion of application of alternative energy.

Head 42 does not include expenses attributable to the Electrical and Mechanical Services Trading Fund (EMSTF) established in August 1996, other than EMSTF's share of the common administrative expenses provided by the Electrical and Mechanical Services Department. Such expenses will be reimbursed to Government through General Revenue.

Detail

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

	2003–04 (Actual)	2004–05 (Original)	2004–05 (Revised)	2005–06 (Estimate)
Financial provision (\$m)	108.3	106.5	106.5 (—)	96.8 (–9.1%)

(or –9.1% on
2004–05 Original)

Aim

2 The aim is to safeguard public safety through implementation of a set of comprehensive regulatory frameworks and systems on electrical and gas applications and working closely with the community on public education, to monitor the operation and development of the electricity utilities and supply, and to provide professional support and advice on nuclear related matters.

Brief Description

3 For the regulatory functions, the Department is responsible for the administration and enforcement of the Electricity Ordinance, the Gas Safety Ordinance and the Oil (Conservation and Control) Ordinance. The work includes:

Gas safety

- administration and enforcement of the Gas Safety Ordinance, including registration of gas supply companies, installers and contractors; and approval and inspection of gas appliances and installations;
- risk assessment of potentially hazardous installations relating to gas supply and land use planning aspects;
- enlistment of competent persons for maintenance of liquefied petroleum gas (LPG) vehicles and type approval of LPG vehicles' fuel systems;
- assessment and approval of construction of LPG filling stations and LPG vehicle maintenance workshops;
- monitoring the operation of LPG filling stations;
- investigation of gas incidents;
- initiating prosecution and taking disciplinary actions;
- promotion of gas safety;

Electrical safety

- administration and 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;
- initiating prosecution and taking disciplinary actions;
- promotion of electrical safety;

Electricity utility monitoring (Scheme of Control Agreements)

- annual auditing review of technical performance 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;

Nuclear safety

- reviewing and implementing departmental plans in preparedness for nuclear emergencies;
- responding immediately to initial alert;
- interpreting and assessing engineering data/information received;
- planning and participating in exercises and drills in response to nuclear emergencies; and
- giving professional advice on matters relating to nuclear power and associated emergency preparedness.

4 The Department met the targets in 2004.

5 The key performance measures are:

Targets

	Target Working Days	2003 (Actual)	2004 (Actual)	2005 (Plan)
<i>Gas safety</i>				
registration of installers.....	13	13	13	13
registration of contractors.....	45§	55	45	45
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

Head 42 — ELECTRICAL AND MECHANICAL SERVICES DEPARTMENT

	Target Working Days	2003 (Actual)	2004 (Actual)	2005 (Plan)
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	2
enlistment of competent persons for LPG installations/gasholders	30	30	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	20	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>				
conducting an annual technical performance audit on each of the two power companies under the Scheme of Control Agreements	120	120	120	120
providing technical input in the financial auditing review of capital expenditure variances of transmission and distribution projects	60	60	54	60
providing technical advice related to electricity utilities matters	14	14	14	14
conducting an assessment of the planning/performance of the two power companies' demand side management (DSM) programmes	60	45	45	—#
conducting a site audit to verify the performance of the two power companies in respect of the DSM rebate programme on lighting...	42	37	—	—#
DSM rebate programme on heating, ventilating and air-conditioning	30	—	24	—#

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 professional advice to the Government on matters relating to nuclear power and nuclear emergencies.

§ The target has been revised from 55 to 45 working days with effect from 2004 to reflect increase in efficiency.

Programmes were completed in 2003–04.

Head 42 — ELECTRICAL AND MECHANICAL SERVICES DEPARTMENT

Indicators

	2003 (Actual)	2004 (Actual)	2005 (Estimate)
<i>Gas safety</i>			
audit inspections to gas supply companies, contractors and distributors	1 539	1 551	1 540
notifiable gas installations and related inspections	1 127	1 068	1 100
follow-up inspections and quality assurance visits.....	1 952	1 912	1 920
applications processed for equipment approval and registration of gas contractors/installers	358	384	360
LPG road tankers and cylinder wagons inspected.....	628	607	600
notifiable gas installations approved.....	40	33	40
requests for advice/public enquiries/complaints	3 720	3 943	3 800
gas incidents investigated	470	481	450
prosecutions/improvement notices served	70	66	70
competent persons (for LPG installations/gasholders) enlistment processed	6	1	3
<i>LPG vehicle safety</i>			
competent persons enlistment application processed.....	105	72	60
LPG fuel tanks in vehicles approved and revalidated.....	1 845	1 972	6 400φ
inspections of vehicles, filling stations and maintenance workshops (all before grant of approval)	114	84	55
annual inspections of approved filling stations	43	46	50
annual inspections of approved workshops.....	34	30	30
filling stations approved.....	5	4	4
maintenance workshops approved	—	2	2
requests for advice/public enquiries/complaints	944	982	950
<i>Electrical safety</i>			
site inspections on electrical installations	9 570	8 789	8 800
site inspections on electrical products.....	3 782	3 741	3 800
electrical worker/contractor/competent person registration applications processed (including renewal).....	11 134	33 423μ	22 000
recognised certification bodies and manufacturers applications processed.....	6	3	3
periodic testing certificates of electrical installations processed.....	8 669	7 068	7 000
reported electrical incidents investigated.....	161	311	200
reported unsafe electrical installations/products investigated ..	558	604	500
prosecutions/disciplinary actions conducted.....	184	300	200
requests for advice/enquiries.....	34 701	65 496	60 000
electrical products tested.....	95	50	60
<i>Electricity utility monitoring</i>			
technical indicators assessed in the annual auditing review to monitor the technical performance of electricity utilities	62	62	62
transmission and distribution projects assessed relating to technical input in the financial auditing review of capital expenditure variances.....	49	37	40
requests for advice on electricity utilities matters handled	91	71	90
DSM programmes examined in the annual performance/triennial planning assessment	30	3	—#
DSM rebate programmes verified in site audit on lighting.....	12	—	—#
heating, ventilating and air-conditioning	—	3	—#
<i>Nuclear safety</i>			
technical co-operation or exchanges participated	3	3	3
exercises and drills participated.....	2	2	2

φ The no. of 5-yearly LPG fuel tank revalidations to be processed will peak in 2005–06.

μ The no. of 3-yearly registration renewals processed peaked in 2004–05.

Programmes were completed in 2003–04.

Matters Requiring Special Attention in 2005–06

6 During 2005–06, the Department will:

- monitor the installation of submarine natural gas pipelines from Shenzhen to Hong Kong Electric Power Generating Plant at Lamma Island and from Shenzhen to Tai Po Gas Production Plant;
- implement the new code of practice for flexible gas tubing for low pressure applications under the Gas Safety (Miscellaneous) Regulation;
- issue a new code of practice for installation of excess flow valves;
- implement the revised code of practice for LPG distributors;
- enforce the new regulations on approval of domestic gas appliances;
- monitor the voluntary replacement of diesel light buses with LPG light buses;
- monitor the operation of LPG filling stations;
- revise the Code of Practice on Working near Electricity Supply Lines;
- monitor the implementation of new requirements under the revised Code of Practice for the Electricity (Wiring) Regulations;
- study the implementation of cable colour change for electricity supply systems in Hong Kong;
- enhance co-operation with Mainland authorities on safety requirements of electrical and gas products; and
- continue to consider matters relating to the mapping out of the broad direction for the post-2008 electricity market.

Programme (2): Mechanical engineering installations safety

	2003–04 (Actual)	2004–05 (Original)	2004–05 (Revised)	2005–06 (Estimate)
Financial provision (\$m)	27.7	26.0	26.7 (+2.7%)	25.4 (–4.9%)
				(or –2.3% on 2004–05 Original)

Aim

7 The aim is to safeguard public safety through implementation of a set of comprehensive regulatory frameworks and systems on lifts, escalators, builders' lifts, tower working platforms, amusement rides, trams and other mechanical installations, and working closely with the community on public education.

Brief Description

8 The Department is responsible for the administration and enforcement of various safety ordinances, 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 ease of reference, activities relating to all these enactments which are under different policy areas are reported under this programme. The work includes:

- administration and enforcement of the above ordinances and regulations on mechanical safety, including registration of contractors, engineers and competent persons and inspection of installations;
- preparation of codes of practice;
- investigation of incidents;
- provision of expert advice; and
- initiating prosecution and taking disciplinary actions.

9 The Department met the targets in 2004.

10 The key performance measures are:

Head 42 — ELECTRICAL AND MECHANICAL SERVICES DEPARTMENT

Targets

	Target Working Days	2003 (Actual)	2004 (Actual)	2005 (Plan)
registration of				
lift/escalator contractors	45§	60	45	45
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 ≤ 20 persons)	40	40	40	40
amusement rides (capacity ≥ 21 persons)	55	55	55	55
builders' lifts and tower working platforms	40	40	40	40

§ The target has been revised from 60 to 45 working days with effect from 2005 to reflect increase in efficiency.

Indicators

	2003 (Actual)	2004 (Actual)	2005 (Estimate)
certificates processed			
lifts and escalators.....	57 269	60 769	61 000
builders' lifts and tower working platforms	268	244	270
inspections			
lifts and escalatorsΔ	5 291	5 079	5 000
percentage of existing lifts and escalators.....	10.6	9.8	9.5
builders' lifts and tower working platforms	280	270	270
amusement rides	2 240	2 283	2 350
peak tramway	14	14	14
tramway	244	252	240
aerial ropeways	24	24	24
incidents investigatedΨ	260	329	300
no. of incident/1 000 registered lifts	2.5	3.7	3.2
no. of incident/100 registered escalators.....	10.2	12.4	11.3
requests for advice/enquiries/complaints	1 572	1 180	1 180

Δ Revised description of previous indicators by combining “lifts and escalators (other than aged lifts)” and “aged lifts”.

Ψ Revised description of previous indicator “investigation required”.

Matters Requiring Special Attention in 2005–06

11 During 2005–06, the Department will:

- monitor the construction of a new aerial ropeway on Lantau Island;
- assess and grant approval for the design and operation of amusement rides in Hong Kong Disneyland and monitor their safe operation thereafter;
- promote safety on mechanical engineering installations; and
- implement the recommendations of the study on practical measures to enhance the existing practice of the vehicle maintenance industry.

Head 42 — ELECTRICAL AND MECHANICAL SERVICES DEPARTMENT

Programme (3): Energy efficiency and conservation, and alternative energy

	2003-04 (Actual)	2004-05 (Original)	2004-05 (Revised)	2005-06 (Estimate)
Financial provision (\$m)	40.0	41.3	39.2 (-5.1%)	84.9 (+116.6%)
				(or +105.6% on 2004-05 Original)

Aim

- 12 The aim is to promote energy efficiency and conservation, and application of alternative energy.

Brief Description

13 The Department is responsible for the development, promotion and implementation of energy efficiency programmes as well as co-ordination with international organisations on this front; and providing professional support to the Government on the use of new and renewable energy. The work includes:

- professional support and advice to relevant bureaux and the Energy Advisory Committee on the development of energy efficiency and conservation programmes and implementation plans;
- preparation of codes of practice and technical guidelines;
- development and implementation of energy efficiency and conservation programmes;
- development and implementation of energy saving programmes, including an energy saving competition for the private sector;
- research on application of innovative energy efficient technologies;
- promotion of public awareness and application of energy efficiency and conservation measures, equipment and systems;
- promotion of the use of water-cooled air-conditioning system in Hong Kong;
- investigation into the potential use of new and renewable energy for Hong Kong; and
- liaison with regional and international organisations such as Asia-Pacific Economic Cooperation on energy related issues.

- 14 In 2004, the Department met its targets.

- 15 The key performance measures are:

Targets

	2003 (Actual) (Cumulative % completed)	2004 (Actual) (Cumulative % completed)	2005 (Plan) (Cumulative % completed)
development of Energy Efficiency Labelling Scheme (EELS)Ω			
one for television	100	—	—
one for LCD monitor	100	—	—
one for electronic ballast.....	—	100	—
one for computer.....	—	100	—
one for domestic gas instantaneous water heater	50	100	—
one for vehicle	20	50	100
updating of the Hong Kong Energy End-use Database			
2001 data by 2003	100	—	—
2002 data by 2004	—	100	—
2003 data by 2005¶.....	—	—	100
promoting water-cooled air-conditioning system in Hong Kong			
to complete Wanchai and Causeway Bay implementation study	100	—	—

Head 42 — ELECTRICAL AND MECHANICAL SERVICES DEPARTMENT

	2003 (Actual) (Cumulative % completed)	2004 (Actual) (Cumulative % completed)	2005 (Plan) (Cumulative % completed)
study of the wider use of renewable energy			
to study the potential applications of renewable energy in HK.....	90	100	—
to implement pilot project on photovoltaic panels.....	100	—	—
to implement wind measurement programme by 2005 ...	30	80	100
development of performance-based Building Energy Code			
to complete the study.....	100	—	—
study on life cycle energy analysis of building construction			
to complete the study.....	30	100	—

	Target Working Days	2003 (Actual)	2004 (Actual)	2005 (Plan)
registration under the Energy Efficiency Labelling Scheme¶.....	20	20	20	20
application under the pilot scheme for evaporative cooling towers¶.....	20	20	20	20
registration under the Energy Efficiency Building Registration Scheme¶.....	20	20	20	20

Ω Revised description of previous targets by combining “development of EELS for electrical appliances”, “development of EELS for gas appliances” and “development of EELS for vehicles”.

¶ New targets as from 2005.

Indicators

	2003 (Actual)	2004 (Actual)	2005 (Estimate)
<i>Energy audit</i>			
audit surveys completedβ.....	10	14	2
<i>Energy Efficiency Labelling Scheme@</i>			
energy labels developed.....	4	4	1
energy labels implemented.....	2	3	—
energy labels issued¶.....	377	309	300
<i>Energy Efficiency Registration Scheme for buildings</i>			
certificates issued¶.....	173	200	200
<i>Energy consumption study</i>			
studies completed.....	2	1	1
<i>Energy consumption indicators</i>			
segments/end-uses under investigation.....	2	2	1
segments/end-uses with indicators developed.....	3	2	1
<i>Water-cooled air-conditioning system</i>			
studies completed.....	1	—	—
applications received and processed¶.....	37	74	75
installations registered under the pilot scheme completed¶.....	2	15	20
<i>Renewable energy</i>			
studies completed.....	—	1	—
pilot projects completed.....	1	—	—
performance monitoring projects completed.....	—	1	—

β Revised description of previous indicator “re-audit surveys completed”.

@ Revised description of previous indicators by combining “EELS - Electrical Appliances”, “EELS - Gas Appliances” and “EELS - Vehicles”.

¶ New indicators as from 2005.

Head 42 — ELECTRICAL AND MECHANICAL SERVICES DEPARTMENT

Matters Requiring Special Attention in 2005–06

16 During 2005–06, the Department will:

- promote wider application of the voluntary Energy Efficiency Labelling Scheme which covers 17 types of electrical appliances, gas appliances and vehicle;
- consult the public and the trades on a mandatory Energy Efficiency Labelling Scheme;
- develop guidelines on the assessment of life-cycle energy analysis of building construction, and introduce the methodology to the industry and other stakeholders for application;
- conduct wind energy measurement for five sites in both rural and urban areas of Hong Kong and encourage the private companies to undertake pilot wind energy projects;
- conduct tests on energy efficiency and conservation technologies;
- promote public awareness and use of energy efficiency and conservation measures and renewable energy;
- publish technical guidelines for grid connection of small scale renewable energy system;
- provide technical advice and support to government bureaux and departments on energy savings through helping them to analyse energy consumption and organising experience sharing workshops;
- implement energy saving projects for government departments;
- take follow-up action on the recommendations of the consultancy studies on water-cooled air-conditioning systems, including that at Wanchai and Causeway Bay;
- promote best practices in energy efficiency and conservation in the private sector by organising competitions and experience sharing workshops;
- develop a code of practice for water-cooled air-conditioning systems and a comprehensive database for cooling towers;
- update the energy end-use database for Hong Kong; and
- establish and update energy consumption targets and indicators for selected segments/end-uses in the transport and commercial sectors and promote the use of energy consumption benchmarking.

Programme (4): Centralised services and special support

	2003–04 (Actual)	2004–05 (Original)	2004–05 (Revised)	2005–06 (Estimate)
Financial provision (\$m)	68.9	64.8	64.8 (—)	60.3 (–6.9%)
				(or –6.9% on 2004–05 Original)

Aim

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

Brief Description

18 The Department provides contract management services for simultaneous interpretation systems and co-ordinates the demolition of decommissioned incineration plants. The Department commenced in November 2001 a programme for inspecting the operating condition of the existing evaporative cooling towers in Hong Kong.

19 The key performance measures are:

Targets

To ensure the provision of adequate technical support for simultaneous interpretation services and to inspect the operating condition of evaporative cooling towers. The targets in 2004 were met.

Head 42 — ELECTRICAL AND MECHANICAL SERVICES DEPARTMENT

Indicators

	2003 (Actual)	2004 (Actual)	2005 (Estimate)
<i>Simultaneous interpretation</i>			
compliance ratio on scheduled simultaneous interpretation meetings	100%	100%	100%
compliance ratio on ad hoc simultaneous interpretation meetings (within eight hours' notice)	100%	100%	100%
<i>Evaporative cooling towers</i>			
inspections	5 000	1 750	1 700

Matters Requiring Special Attention in 2005–06

20 Upon completion of the inspection programme of cooling towers in 2005, the Department will continue to develop and manage the database of the cooling towers and to advise the cooling tower owners on proper operation and maintenance.

Head 42 — ELECTRICAL AND MECHANICAL SERVICES DEPARTMENT

ANALYSIS OF FINANCIAL PROVISION

Programme	2003–04 (Actual) (\$m)	2004–05 (Original) (\$m)	2004–05 (Revised) (\$m)	2005–06 (Estimate) (\$m)
(1) Energy supply; electrical, gas and nuclear safety	108.3	106.5	106.5	96.8
(2) Mechanical engineering installations safety	27.7	26.0	26.7	25.4
(3) Energy efficiency and conservation, and alternative energy	40.0	41.3	39.2	84.9
(4) Centralised services and special support	68.9	64.8	64.8	60.3
	244.9	238.6	237.2 (–0.6%)	267.4 (+12.7%)
				(or +12.1% on 2004–05 Original)

Analysis of Financial and Staffing Provision

Programme (1)

Provision for 2005–06 is \$9.7 million (9.1%) lower than the revised estimate for 2004–05. This is mainly due to the full-year effect of the 2005 civil service pay cut, deletion of one post and reduced cash flow requirement in non-recurrent projects.

Programme (2)

Provision for 2005–06 is \$1.3 million (4.9%) lower than the revised estimate for 2004–05. This is mainly due to the full-year effect of the 2005 civil service pay cut, deletion of one post and completion of one non-recurrent project.

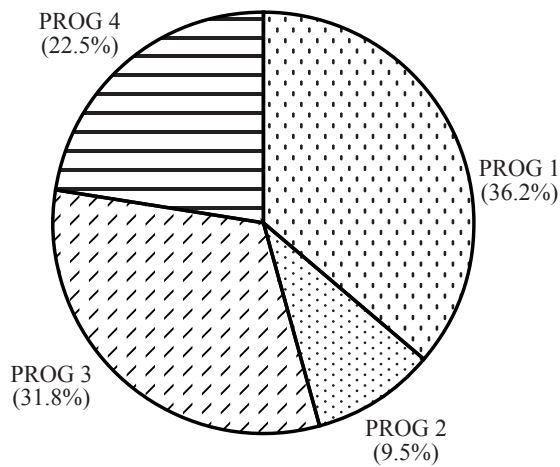
Programme (3)

Provision for 2005–06 is \$45.7 million (116.6%) higher than the revised estimate for 2004–05. This is mainly due to increased provision in capital account for procurement of energy saving equipment for various government departments and organisations, partly offset by the full-year effect of the 2005 civil service pay cut, deletion of two posts and reduced cash flow requirement in non-recurrent projects.

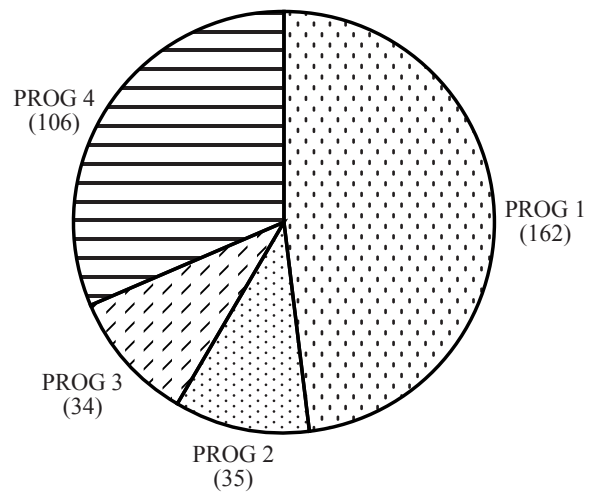
Programme (4)

Provision for 2005–06 is \$4.5 million (6.9%) lower than the revised estimate for 2004–05. This is mainly due to the full-year effect of the 2005 civil service pay cut, deletion of one post and completion of one non-recurrent project.

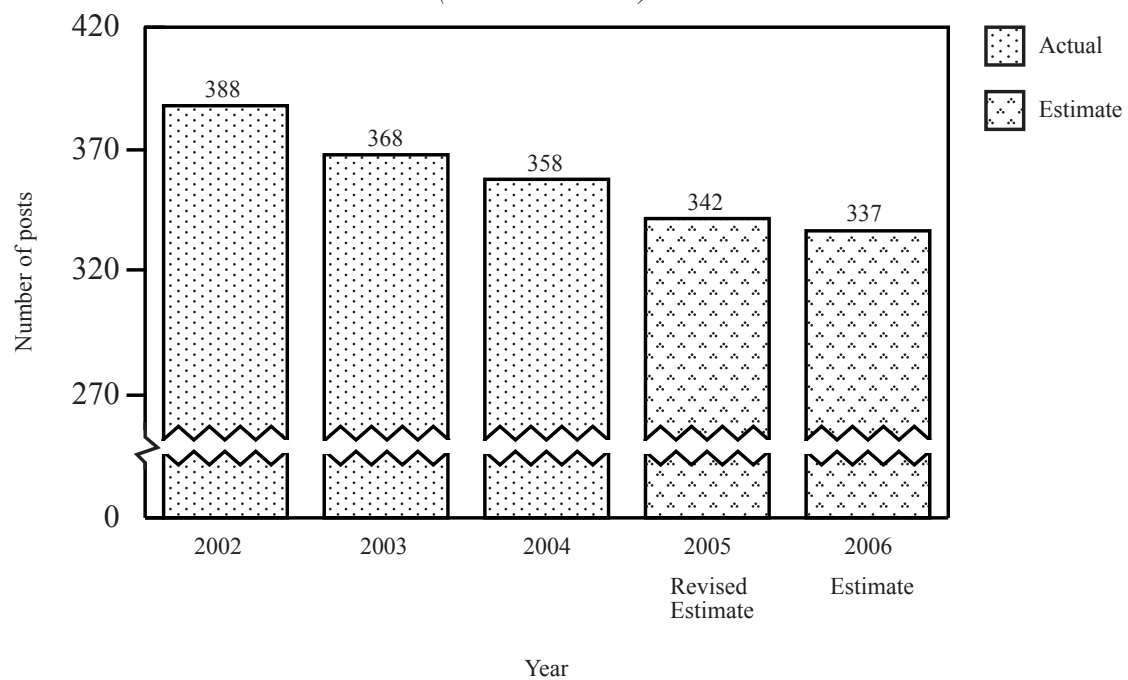
*Allocation of provision
to programmes
(2005-06)*



*Staff by programme
(as at 31 March 2006)*



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



Head 42 — ELECTRICAL AND MECHANICAL SERVICES DEPARTMENT

Sub-head (Code)		Actual expenditure 2003-04	Approved estimate 2004-05	Revised estimate 2004-05	Estimate 2005-06
		\$'000	\$'000	\$'000	\$'000
Operating Account					
Recurrent					
000	Operational expenses	231,990	219,061	219,061	210,018
	Total, Recurrent	231,990	219,061	219,061	210,018
Non-Recurrent					
700	General non-recurrent	12,937	19,566	18,093	6,888
	Total, Non-Recurrent	12,937	19,566	18,093	6,888
	Total, Operating Account	244,927	238,627	237,154	216,906
Capital Account					
Plant, Equipment and Works					
661	Minor plant, vehicles and equipment (block vote)	—	—	—	50,500
	Total, Plant, Equipment and Works	—	—	—	50,500
	Total, Capital Account	—	—	—	50,500
	Total Expenditure	244,927	238,627	237,154	267,406

Head 42 — ELECTRICAL AND MECHANICAL SERVICES DEPARTMENT

Details of Expenditure by Subhead

The estimate of the amount required in 2005–06 for the salaries and expenses of the Electrical and Mechanical Services Department is \$267,406,000. This represents an increase of \$30,252,000 over the revised estimate for 2004–05 and of \$22,479,000 over actual expenditure in 2003–04.

Operating Account

Recurrent

2 Provision of \$210,018,000 under *Subhead 000 Operational expenses* is for the salaries, allowances and other operating expenses of the Electrical and Mechanical Services Department.

3 The establishment as at 31 March 2005 will be 342 permanent posts. It is expected that there will be a deletion of five permanent posts in 2005–06. Subject to certain conditions, the controlling officer may under delegated power create or delete non-directorate posts during 2005–06, but the notional annual mid-point salary value of all such posts must not exceed \$127,224,000.

4 An analysis of the financial provision under *Subhead 000 Operational expenses* is as follows:

	2003–04 (Actual) (\$'000)	2004–05 (Original) (\$'000)	2004–05 (Revised) (\$'000)	2005–06 (Estimate) (\$'000)
Personal Emoluments				
- Salaries	178,906	168,041	169,938	162,964
- Allowances	2,333	3,100	2,207	2,200
- Job-related allowances	120	150	120	120
Personnel Related Expenses				
- Mandatory Provident Fund contribution	220	201	220	220
Departmental Expenses				
- Technical Services Agreement	10,967	11,753	9,475	9,475
- General departmental expenses	39,444	35,816	37,101	35,039
	<u>231,990</u>	<u>219,061</u>	<u>219,061</u>	<u>210,018</u>

Head 42 — ELECTRICAL AND MECHANICAL SERVICES DEPARTMENT

Commitments

Sub-head (Code)	Item (Code)	Ambit	Approved commitment	Accumulated expenditure to 31.3.2004	Revised estimated expenditure for 2004-05	Balance
			\$'000	\$'000	\$'000	\$'000
<i>Operating Account</i>						
700		<i>General non-recurrent</i>				
	702	Territory-wide implementation study for water-cooled air-conditioning systems in Hong Kong.....	13,600	11,127	900	1,573
	703	Implementation study for a district cooling system at South East Kowloon Development.....	11,000	6,493	230	4,277
	705	Implementation study for water-cooled air-conditioning systems in Wanchai and Causeway Bay Districts.....	9,000	3,613	2,200	3,187
	708	Training programme to core staff for the Electricity Market Reform.....	1,000	488	300	212
	717	Employment of international consultants to conduct studies relating to the activities of the two power companies (2002-04).....	2,000	1,140	60	800
	721	Study for the development of guidelines on the assessment of Life-cycle Energy Cost of Building Construction	7,000	1,697	3,000	2,303
		Total	<u>43,600</u>	<u>24,558</u>	<u>6,690</u>	<u>12,352</u>