

Head 42 — ELECTRICAL AND MECHANICAL SERVICES DEPARTMENT

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

Estimate 2021–22 **\$1,591.4m**

Establishment ceiling 2021–22 (notional annual mid-point salary value) representing an estimated 576 non-directorate posts as at 31 March 2021 reducing by six posts to 570 posts as at 31 March 2022..... **\$424.2m**

In addition, there will be an estimated 19 directorate posts as at 31 March 2021 and as at 31 March 2022.

Commitment balance..... **\$3,818.1m**

Controlling Officer’s Report

Programmes

Programme (1) Energy Supply; Electrical, Gas and Nuclear Safety	This programme contributes to Policy Area 9: Internal Security (Secretary for Security) and Policy Area 23: Environmental Protection, Conservation, Power and Sustainable Development (Secretary for the Environment).
Programme (2) Mechanical Installations Safety	This programme contributes to Policy Area 5: Travel and Tourism (Secretary for Commerce and Economic Development), Policy Area 18: Recreation, Culture, Amenities and Entertainment Licensing (Secretary for Home Affairs), Policy Area 21: Land and Waterborne Transport (Secretary for Transport and Housing) and Policy Area 22: Buildings, Lands, Planning, Heritage Conservation, Greening and Landscape (Secretary for Development).
Programme (3) Energy Efficiency and Conservation, and Alternative Energy	This programme contributes to Policy Area 23: Environmental Protection, Conservation, Power and Sustainable Development (Secretary for the Environment).
Programme (4) Centralised Services and Special Support	This programme contributes to Policy Area 27: Intra-Governmental Services (Secretary for Development).

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 (EMSD). Such expenses will be reimbursed to Government through General Revenue.

Detail

Programme (1): Energy Supply; Electrical, Gas and Nuclear Safety

	2019–20 (Actual)	2020–21 (Original)	2020–21 (Revised)	2021–22 (Estimate)
Financial provision (\$m)	176.4	188.4	186.0 (–1.3%)	187.4 (+0.8%)
				(or –0.5% on 2020–21 Original)

Aim

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

Head 42 — ELECTRICAL AND MECHANICAL SERVICES DEPARTMENT

Brief Description

3 For the regulatory functions, the Department is responsible for the administration and enforcement of the Electricity Ordinance (Cap. 406) (EO), the Gas Safety Ordinance (Cap. 51) (GSO) and the Oil (Conservation and Control) Ordinance (Cap. 264). The work includes:

Gas safety

- administration and enforcement of the GSO, including registration of gas supply companies, installers and contractors; monitoring gas distributors and contractors; and approval and inspection of gas appliances, tubing and installations including those in maintenance workshops for liquefied petroleum gas (LPG) vehicles;
- risk assessment of potentially hazardous installations relating to gas supply and land use planning aspects;
- assessment, approval and monitoring of natural gas supply projects;
- enlistment of competent persons for maintenance of LPG vehicles and approval of fuel tank of LPG vehicles;
- approval and monitoring of 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 EO, including registration of electrical workers, contractors and competent persons, recognised certification bodies, recognised manufacturers and generating facilities; and inspection of electrical installations and products;
- investigation of electrical incidents;
- initiating prosecution and taking disciplinary actions;
- promotion of electrical safety;

Monitoring of electricity utilities (Scheme of Control Agreements)

- annual auditing review of technical performance of electricity utilities;
- assessment of development plans submitted regularly by electricity utilities;
- provision of technical advice relating to monitoring of electricity utilities;

Oil and gas supply

- administration and enforcement of the Oil (Conservation and Control) Ordinance;
- compilation of statistics on oil and gas supply;

Nuclear safety

- reviewing and implementing departmental plans in preparedness for nuclear emergencies;
- responding immediately to initial alert, and interpreting and assessing engineering 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 key performance measures are:

Targets

	Target	2019 (Actual)	2020 (Actual)	2021 (Plan)
<i>Gas safety</i>				
registration of installers within 12 working days (%).....	100	100	100	100
registration of contractors within 38 working days (%).....	100	100	100	100
approval for construction of notifiable gas installations (NGIs) within 30 working days (%).....	100	100	100	100
approval for use of NGIs within 12 working days (%).....	100	100	100	100
approval for use of equipment/materials within 26 working days (%)	100	100	100	100

Head 42 — ELECTRICAL AND MECHANICAL SERVICES DEPARTMENT

	Target	2019 (Actual)	2020 (Actual)	2021 (Plan)
scheduling and inspection of LPG road tankers and cylinder wagons within 18 working days (%).....	100	100	100	100
investigation of reports of illegal installations within ten working days (%).....	100	100	100	100
response to complaints of excessive storage of LPG within two working days (%).....	100	100	100	100
enlistment of competent persons for LPG installations/gasholders within 25 working days (%).....	100	100	100	100
<i>LPG vehicle safety</i>				
enlistment of competent persons for maintenance of fuel systems within 25 working days (%).....	100	100	100	100
approval for use of LPG fuel tanks in vehicles within 26 working days (%)	100	100	100	100
approval for construction of filling stations within 30 working days (%)	100	100	100	100
approval for use of filling stations within 12 working days (%).....	100	100	100	100
<i>Electrical safety</i>				
registration of electrical workers/contractors/competent persons within 13 working days (%).....	99	99	99	99
registration of generating facilities within 40 working days (%)	95	96	100	99
registration of recognised certification bodies and manufacturers within 17 working days (%).....	100	100	100	100
endorsement of testing certificate of electrical installations within 13 working days (%).....	99	100	99	99
investigation of incidents/complaints related to electrical installations/products within ten working days (%).....	100	100	100	100
<i>Monitoring of electricity utilities</i>				
conducting an annual technical performance audit on each of the two power companies under the Scheme of Control Agreements within 102 working days (%)	100	100	100	100
providing technical input in the financial auditing review of capital expenditure variances within 55 working days (%)	100	100	100	100
providing technical advice related to electricity utilities matters within 13 working days (%).....	100	100	100	100

Nuclear safety

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

Indicators

	2019 (Actual)	2020 (Actual)	2021 (Estimate)
<i>Gas safety</i>			
audit inspections to gas supply companies, contractors and distributors	1 347	1 336	1 400
NGIs and related inspections	1 263	1 183	1 200

Head 42 — ELECTRICAL AND MECHANICAL SERVICES DEPARTMENT

	2019 (Actual)	2020 (Actual)	2021 (Estimate)
follow-up inspections and quality assurance visits	2 250	2 074	2 100
applications processed for equipment approval and registration of gas contractors/installers	272	221	235
LPG road tankers and cylinder wagons inspected	479	469	500
NGIs approved	28	14	22
gas incidents investigated.....	237	244	250
prosecutions/disciplinary actions conducted/improvement notices served	89	64ε	80ε
competent persons (for LPG installations/gasholders) enlistment applications processed	8	1	4
enquiries/complaints handled.....	2 415	2 262	2 500
<i>LPG vehicle safety</i>			
competent persons enlistment applications processed	6	12	6
LPG fuel tanks in vehicles approved and revalidated.....	5 035	6 525#	5 500#
inspections of vehicles and filling stations (all before grant of approval).....	36	36	36
inspections of approved filling stations.....	250	250	240
filling stations approved.....	3	3@	1@
enquiries/complaints handled.....	951	995	950
<i>Electrical safety</i>			
site inspections on electrical installations	9 093φ	7 943φ	8 500φ
site inspections on electrical products.....	3 955	3 910	3 900
electrical workers/contractors/competent persons registration applications processed (including renewals)....	41 342	32 717Δ	24 200Δ
generating facilities registration applications processed.....	144	1 252α	3 000α
recognised certification bodies and manufacturers applications processed	9	10	8
periodic testing certificates of electrical installations processed	11 035	10 263	10 000
reported electrical incidents investigated	485	457	470
reported unsafe electrical installations/products investigated.....	648	601	670
prosecutions/disciplinary actions conducted.....	505	427	430
electrical products tested.....	62	66	60
enquiries handled	14 051	13 765	12 000
<i>Monitoring of electricity utilities</i>			
technical indicators assessed in the annual auditing review to monitor the technical performance of electricity utilities	62	62	62
projects assessed relating to technical input in the financial auditing review of capital expenditure variances	40	40	40
enquiries handled	110	91	90
<i>Nuclear safety</i>			
technical co-operation or exchanges participated	3	3	3
exercises and drills participated	2	2	2

ε The drop in the number of prosecutions conducted and improvement notices served in 2020 was associated with the reduced site construction and commercial activities during the epidemic. It is estimated that the figure in 2021 will be comparable to that in 2019.

The LPG taxi incentive scheme was launched in 2000. The number of LPG fuel tanks requiring the fourth five-yearly revalidation peaked in 2020 and will begin to decrease in 2021 after the peak.

@ The number of filling stations approved is expected to decrease in 2021 due to fewer applications on modification of existing stations.

φ There were more site inspections in 2019 mainly due to the stepped-up efforts to enhance electrical safety in village houses. The number in 2020 was slightly lower than the normal level due to the reduced number of inspections on lower-risk cases during the epidemic. It is expected that the number of site inspections will resume to the normal level in 2021.

Head 42 — ELECTRICAL AND MECHANICAL SERVICES DEPARTMENT

- Δ Registered electrical workers/contractors/competent persons are required to have their registration renewed every three years. Due to the uneven distribution of renewal registrations for these persons, a cyclical peak appears once every three years. The number of three-yearly renewal applications of electrical workers/contractors/competent persons dropped in 2020 and is expected to show a cyclical trough in 2021.
- α The number of applications in 2020 increased as more solar energy generating facilities had been installed under the Feed-in Tariff Scheme. It is expected that the number of applications for generating facilities registration will further increase in 2021.

Matters Requiring Special Attention in 2021–22

5 During 2021–22, the Department will:

- continue to monitor the operation and maintenance of LPG storage installations;
- continue the stepped-up inspection of vehicle maintenance workshops in relation to LPG vehicles and education for the trades on gas safety measures;
- monitor the development and application of new refrigerants of low global warming potential in the air conditioning and refrigeration market; and
- continue to provide technical support to the Environment Bureau on matters relating to the future development of the electricity market and the implementation of the Scheme of Control Agreements.

Programme (2): Mechanical Installations Safety

	2019–20 (Actual)	2020–21 (Original)	2020–21 (Revised)	2021–22 (Estimate)
Financial provision (\$m)	412.9	628.6	627.8 (–0.1%)	749.3 (+19.4%)
				(or +19.2% on 2020–21 Original)

Aim

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

Brief Description

7 The Department is responsible for the administration and enforcement of various safety ordinances, including the Lifts and Escalators Ordinance (Cap. 618) (LEO), the Amusement Rides (Safety) Ordinance (Cap. 449), the Aerial Ropeways (Safety) Ordinance (Cap. 211), the Builders' Lifts and Tower Working Platforms (Safety) Ordinance (Cap. 470), certain provisions of the Mass Transit Railway Ordinance (Cap. 556) and the Mass Transit Railway Regulations (Cap. 556A), the Airport Authority (Automated People Mover) (Safety) Regulation (Cap. 483C), the Tramway Ordinance (Cap. 107) and the Peak Tramway (Safety) Regulations (Cap. 265A). The Department is also responsible for the development and implementation of the voluntary registration schemes for vehicle mechanics and vehicle maintenance workshops. For ease of reference, the above activities, 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 and railway safety;
- registration of contractors, engineers, workers, examiners, surveyors and competent persons and inspection of installations;
- approval of design and construction of aerial ropeways, amusement rides, builders' lifts and tower working platforms, new brands/models of lift and escalator equipment, new railways and major railway modifications;
- preparation of codes of practice;
- investigation of incidents;
- initiating prosecution and taking disciplinary actions;
- implementation of the voluntary registration schemes for vehicle mechanics and vehicle maintenance workshops; and
- provision of expert advice.

Head 42 — ELECTRICAL AND MECHANICAL SERVICES DEPARTMENT

8 The key performance measures are:

Targets

	Target	2019 (Actual)	2020 (Actual)	2021 (Plan)
applications of new or major modified railway facilities/systems processed within 25 working days (%)	99	99	99	99
registration of lift/escalator contractors within 40 working days (%)	100	100	100	100
lift/escalator engineers within 40 working days (%)	100	100	100	100
lift/escalator workers within 40 working days (%)	100	100	100	100
periodic testing certificates for lifts and escalators processed within 13 working days (%)	100	100	100	100
builders' lifts and tower working platforms processed within 12 working days (%)	100	100	100	100
issue of permits to use for lifts and escalators within 13 working days (%)	100	100	100	100
builders' lifts and tower working platforms within 12 working days (%)	100	100	100	100
amusement rides within 13 working days (%)	100	100	100	100
approval of design and construction of amusement rides (capacity ≤ 20 persons) within 34 working days (%)	100	100	100	100
amusement rides (capacity ≥ 21 persons) within 48 working days (%)	100	100	100	100
builders' lifts and tower working platforms within 34 working days (%)	100	100	100	100

Indicators

	2019 (Actual)	2020 (Actual)	2021 (Estimate)
applications processed			
new brands/models of lift and escalator equipment.....	579	504‡	500‡
design and construction of builders' lifts and tower working platforms	32	30	30
new or major modified railway facilities/systems	506	768η	500η
certificates processed			
lifts and escalators	89 654	93 010	94 200
builders' lifts and tower working platforms.....	188	196	190
amusement rides.....	318	110§	320§
inspections			
lifts and escalators	29 101	28 528	28 900
percentage of existing lifts and escalators (%).....	36.8	35.6	36.0
builders' lifts and tower working platforms.....	303	303	300
amusement rides.....	1 883	1 843	1 850
railway facilities/systems	350	408τ	400τ
peak tramway	14	15	15
tramway.....	170	170	170
aerial ropeways	91	90	90

Head 42 — ELECTRICAL AND MECHANICAL SERVICES DEPARTMENT

	2019 (Actual)	2020 (Actual)	2021 (Estimate)
incidents investigated			
lifts and escalators	276	276	276
aerial ropeways	3	2	3
amusement rides.....	16	11Ω	16Ω
peak tramway	1	1	1
tramway.....	12	4λ	12λ
railways	113	109	110
builders' lifts and tower working platforms, and others.....	2	3	3
incidents/1 000 registered lifts	5.3	3.4◇	5.3◇
incidents/100 registered escalators.....	17.9	15.1◇	17.9◇
enquiries/complaints handled.....	4 075	3 867	3 900

- ‡ The number of applications reverted to the normal level following the surge of applications when the new design standard came into force in 2019.
- η The increase in 2020 was attributed to the increase in the number of applications for safety improvement works of MTR stations following social unrest in the second half of 2019. It is expected that the number of applications would return to the normal level in 2021.
- § The number of applications dropped in 2020 due to closure of places of public entertainment during the epidemic. It is expected that the number of applications in 2021 would return to the normal level.
- τ The increase in 2020 was attributed to the increase in the number of inspections due to strengthening of the comprehensive and direct audits of existing railway facilities/systems. It is expected that the number of inspections in 2021 would be similar to that in 2020.
- Ω The number in 2020 dropped due to closure of places of public entertainment during the epidemic. It is expected that it will return to the normal level in 2021.
- λ The decrease in 2020 was associated with the reduced tramway patronage due to the epidemic. It is expected that the number of tramway incidents investigated in 2021 would be similar to that in 2019 after the resumption of the tramway patronage.
- ◇ The decrease in 2020 was attributed to the comparatively lower utilisation of lifts and escalators during the epidemic. It is expected that the incident rates would return to the normal level in 2021.

Matters Requiring Special Attention in 2021–22

- 9 During 2021–22, the Department will continue to:
- monitor the operation and maintenance of the aerial ropeways of Ngong Ping 360 and Ocean Park, and amusement rides in Hong Kong Disneyland, Ocean Park and other venues;
 - promote and administer the voluntary registration schemes for vehicle mechanics and vehicle maintenance workshops, including stepping up inspection of vehicle mechanics and vehicle maintenance workshops under the voluntary registration schemes, as well as examine the introduction of a mandatory registration system for both vehicle mechanics and vehicle maintenance workshops;
 - step up public education and publicity efforts to enhance the safety of lifts and escalators;
 - step up inspection of registered contractors' maintenance works for aged lifts and escalators;
 - implement the LEO and publicise the requirements to relevant stakeholders;
 - provide support to the Urban Renewal Authority for implementation of the Lift Modernisation Subsidy Scheme; and
 - monitor the safety performance of railway service provided by the MTR Corporation Limited (MTRCL), in particular to enhance monitoring by conducting comprehensive and direct audit of the MTRCL's asset management system and safety management system.

Programme (3): Energy Efficiency and Conservation, and Alternative Energy

	2019–20 (Actual)	2020–21 (Original)	2020–21 (Revised)	2021–22 (Estimate)
Financial provision (\$m)	392.5	594.3	380.8 (–35.9%)	542.7 (+42.5%)
				(or –8.7% on 2020–21 Original)

Aim

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

Head 42 — ELECTRICAL AND MECHANICAL SERVICES DEPARTMENT

Brief Description

11 The Department is responsible for the development, promotion and implementation of energy efficiency and conservation; and providing professional support to the Government on the promotion and use of new and renewable energy. The work includes:

- administration and enforcement of the Energy Efficiency (Labelling of Products) Ordinance (Cap. 598);
- administration and enforcement of the Buildings Energy Efficiency Ordinance (Cap. 610) (BEEO);
- provision of professional support and advice to relevant bureaux and the Energy Advisory Committee on matters in relation to energy efficiency and conservation as well as adoption of renewable energy;
- planning for and implementation of district cooling systems;
- preparation and review of codes of practice and technical guidelines;
- development and implementation of energy saving, energy efficiency and conservation as well as renewable energy programmes and projects;
- research and development on application of innovative energy efficiency and renewable energy technologies;
- establishment and updating of the energy end-use database;
- promotion of public awareness and application of energy efficiency and conservation measures, equipment and systems and the use of renewable energy; and
- liaison with the Mainland, regional and international organisations such as the Asia-Pacific Economic Cooperation on energy-related issues.

12 The key performance measures are:

Targets

	Target	2019 (Actual)	2020 (Actual)	2021 (Plan)
registration under the voluntary Energy Efficiency Labelling Scheme (EELS) within 17 working days (%)	99	99	100	99
processing of product submissions under the mandatory EELS within 17 working days (%).....	99	99	100	99
approval of applications under the voluntary water-cooled air-conditioning system scheme for the design or operation of the evaporative cooling towers within 17 working days (%).....	99	100	100	99
registration under the voluntary Energy Efficiency Registration Scheme for Buildings within 17 working days (%)....	99	100	100	99
annual updating of Hong Kong Energy End-use Database (% completed).....	100	100	100	100
registration of Registered Energy Assessors under the Mandatory Building Energy Code (BEC) Scheme within 40 working days (%)	99	100	100	99

Indicators

	2019 (Actual)	2020 (Actual)	2021 (Estimate)
<i>Mandatory EELS</i>			
product submissions processed	1 425μ	872μ	1 290μ
site inspections on prescribed products.....	866μ	721μ	700
<i>Voluntary EELS</i>			
energy labels developed	0¶	0¶	0¶
energy labels implemented.....	0¶	0¶	0¶
energy labels issued.....	201	197	200

Head 42 — ELECTRICAL AND MECHANICAL SERVICES DEPARTMENT

	2019 (Actual)	2020 (Actual)	2021 (Estimate)
<i>Mandatory BEC Scheme</i>			
sampling inspections for submissions relating to new buildings, major retrofitting works and energy audit	24	24	24
sampling inspections of buildings	984	991	980
<i>Voluntary Energy Efficiency Registration Scheme for Buildings</i>			
certificate issued	23	42	20
<i>Energy consumption study</i>			
studies completed	1	1	1
energy consumption indicators developed/updated	1	1	1
<i>Voluntary water-cooled air-conditioning system scheme</i>			
applications received and processed	56	45	55
installations completed	54	44	45
<i>Research and development on the application of innovative energy efficiency technologies</i>			
studies completed	3	3	3
<i>Energy efficiency and conservation promotion</i>			
talks delivered/visits organised for organisations/schools	415	235 ^a	230^a
enquiries handled	3 852	3 867	3 800

μ The upsurge in the number of product submissions and site inspections in 2019 was due to an increase in the number of submissions of new prescribed products and site inspections arising from the full implementation of the third phase of the mandatory EELS in 2019. The number eased gradually to its normal level in 2020. An anticipated increase in the number of product submissions is expected in 2021 due to the full implementation of new energy efficiency grading standards for room air conditioners, compact fluorescent lamps and dehumidifiers in 2021.

¶ There was no new energy label under the voluntary EELS in recent years as it has already covered 22 types of electrical appliances, office equipment and gas appliances.

⦿ Many school visits to the EMSD exhibition gallery and outreach talks at schools were cancelled due to COVID-19 in 2020, which resulted in a drop in the number of talks delivered/visits organised, even though online talks were arranged. The figure in 2021 is expected to remain at the same level as 2020 in view of COVID-19.

Matters Requiring Special Attention in 2021–22

13 During 2021–22, the Department will:

- continue to implement the mandatory EELS, fully implement the new energy efficiency grading standards for room air conditioners, compact fluorescent lamps and dehumidifiers, consult the public on the expansion of the scope to cover more appliances under the fourth phase of the scheme, and continue to implement the voluntary EELS;
- continue to implement the BEEO including the statutory codes of practice, and to promote building energy efficiency among stakeholders in the built environment;
- administer and promote the voluntary Hong Kong Energy Efficiency Registration Scheme for Buildings to encourage building energy efficiency that is above the statutory levels;
- continue the development of the existing and additional district cooling systems at the Kai Tak Development, continue the planning and design of the proposed district cooling systems in the Tung Chung New Town Extension (East), Kwu Tung North and Hung Shui Kiu/Ha Tsuen New Development Areas, and conduct feasibility studies on the provision of district cooling systems in other new development areas;
- continue research and development works on the application of new energy efficiency and renewable energy technologies;
- continue to promote public awareness of best practices in energy efficiency and conservation as well as renewable energy through publicity and public education programmes;
- provide professional support to encourage the development of renewable energy in the private and public sectors and to facilitate research and development in relation to renewable energy;
- continue to provide technical advice and support to government bureaux and departments on energy saving through organising seminars, experience sharing workshops and other channels;
- continue to promote retro-commissioning to the relevant trades and professions;

Head 42 — ELECTRICAL AND MECHANICAL SERVICES DEPARTMENT

- continue to promote and provide technical advice relating to the implementation of energy-saving measures in government and public venues;
- oversee energy audit, energy saving projects and retro-commissioning projects in government buildings and facilities; and
- implement energy saving projects and renewable energy projects as appropriate in schools and welfare non-government organisations.

Programme (4): Centralised Services and Special Support

	2019–20 (Actual)	2020–21 (Original)	2020–21 (Revised)	2021–22 (Estimate)
Financial provision (\$m)	100.3	107.1	107.1 (—)	112.0 (+4.6%)
				(or +4.6% on 2020–21 Original)

Aim

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

Brief Description

15 The Department is responsible for providing common administrative support to EMSTF. The common administrative expenses shared by EMSTF will be reimbursed to the Government.

16 The Department is also responsible for the regulatory control of fresh water cooling towers under the Public Health and Municipal Services Ordinance (Cap. 132).

Head 42 — ELECTRICAL AND MECHANICAL SERVICES DEPARTMENT

ANALYSIS OF FINANCIAL PROVISION

Programme	2019–20 (Actual) (\$m)	2020–21 (Original) (\$m)	2020–21 (Revised) (\$m)	2021–22 (Estimate) (\$m)
(1) Energy Supply; Electrical, Gas and Nuclear Safety	176.4	188.4	186.0	187.4
(2) Mechanical Installations Safety	412.9	628.6	627.8	749.3
(3) Energy Efficiency and Conservation, and Alternative Energy	392.5	594.3	380.8	542.7
(4) Centralised Services and Special Support.....	100.3	107.1	107.1	112.0
	1,082.1	1,518.4	1,301.7 (-14.3%)	1,591.4 (+22.3%)
				(or +4.8% on 2020–21 Original)

Analysis of Financial and Staffing Provision

Programme (1)

Provision for 2021–22 is \$1.4 million (0.8%) higher than the revised estimate for 2020–21. This is mainly due to the increased cash flow requirement for the non-recurrent item for the intelligent detection system for solar photovoltaic panels. There will be a net decrease of three posts in 2021–22.

Programme (2)

Provision for 2021–22 is \$121.5 million (19.4%) higher than the revised estimate for 2020–21. This is mainly due to the increased cash flow requirement for the non-recurrent item for Lift Modernisation Subsidy Scheme.

Programme (3)

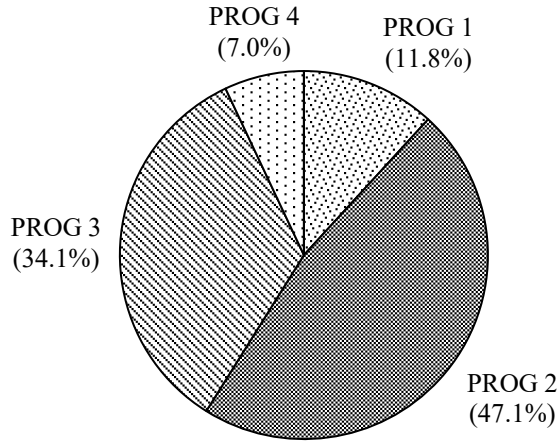
Provision for 2021–22 is \$161.9 million (42.5%) higher than the revised estimate for 2020–21. This is mainly due to the increased provision for capital non-works projects and recurrent consequence of the development of the district cooling system at the Kai Tak Development. There will be a net decrease of one post in 2021–22.

Programme (4)

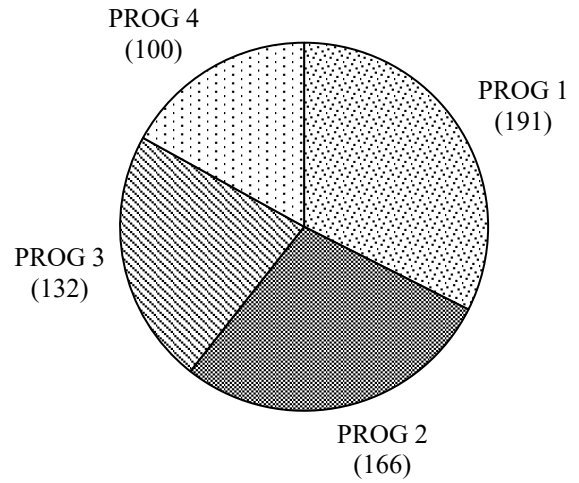
Provision for 2021–22 is \$4.9 million (4.6%) higher than the revised estimate for 2020–21. This is mainly due to the increased provision for operating expenses. There will be a net decrease of two posts in 2021–22.

Head 42 — ELECTRICAL AND MECHANICAL SERVICES DEPARTMENT

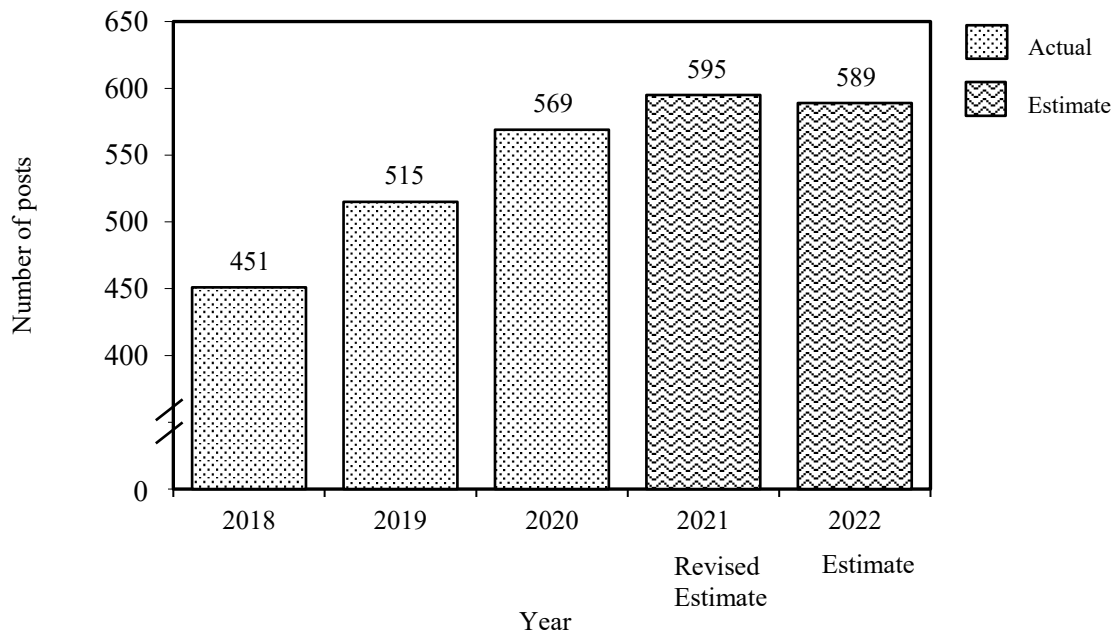
Allocation of provision to programmes (2021-22)



Staff by programme (as at 31 March 2022)



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



Head 42 — ELECTRICAL AND MECHANICAL SERVICES DEPARTMENT

Sub-head (Code)	Actual expenditure 2019–20	Approved estimate 2020–21	Revised estimate 2020–21	Estimate 2021–22	
	\$'000	\$'000	\$'000	\$'000	
Operating Account					
Recurrent					
000	Operational expenses	627,990	722,858	694,416	687,070
	Total, Recurrent	<u>627,990</u>	<u>722,858</u>	<u>694,416</u>	<u>687,070</u>
Non-Recurrent					
700	General non-recurrent	247,870	465,677	460,525	587,300
	Total, Non-Recurrent	<u>247,870</u>	<u>465,677</u>	<u>460,525</u>	<u>587,300</u>
	Total, Operating Account	875,860	1,188,535	1,154,941	1,274,370
<hr/>					
Capital Account					
Plant, Equipment and Works					
661	Minor plant, vehicles and equipment (block vote)	24,864	211,500	71,450	207,000
696	Energy saving projects in government buildings (block vote)	181,419	118,351	75,338	110,000
	Total, Plant, Equipment and Works	<u>206,283</u>	<u>329,851</u>	<u>146,788</u>	<u>317,000</u>
	Total, Capital Account	206,283	329,851	146,788	317,000
<hr/>					
	Total Expenditure	<u>1,082,143</u>	<u>1,518,386</u>	<u>1,301,729</u>	<u>1,591,370</u>

Head 42 — ELECTRICAL AND MECHANICAL SERVICES DEPARTMENT

Details of Expenditure by Subhead

The estimate of the amount required in 2021–22 for the salaries and expenses of the Electrical and Mechanical Services Department is \$1,591,370,000. This represents an increase of \$289,641,000 over the revised estimate for 2020–21 and \$509,227,000 over the actual expenditure in 2019–20.

Operating Account

Recurrent

2 Provision of \$687,070,000 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 2021 will be 595 posts. It is expected that there will be a net decrease of six posts in 2021–22. Subject to certain conditions, the controlling officer may under delegated power create or delete non-directorate posts during 2021–22, but the notional annual mid-point salary value of all such posts must not exceed \$424,223,000.

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

	2019–20 (Actual) (\$'000)	2020–21 (Original) (\$'000)	2020–21 (Revised) (\$'000)	2021–22 (Estimate) (\$'000)
Personal Emoluments				
- Salaries	424,968	473,851	457,088	488,540
- Allowances	6,490	6,437	6,288	6,477
- Job-related allowances.....	—	1	—	—
Personnel Related Expenses				
- Mandatory Provident Fund contribution	1,373	1,531	1,667	1,247
- Civil Service Provident Fund contribution	22,969	25,208	25,751	30,687
Departmental Expenses				
- General departmental expenses	172,190	215,830	203,622	160,119
	<u>627,990</u>	<u>722,858</u>	<u>694,416</u>	<u>687,070</u>

Capital Account

Plant, Equipment and Works

5 Provision of \$207 million under *Subhead 661 Minor Plant, vehicles and equipment (block vote)* represents an increase of \$135,550,000 (189.7%) over the revised estimate for 2020–21. This is mainly due to the increased requirement for new projects.

6 Provision of \$110 million under *Subhead 696 Energy saving projects in government buildings (block vote)* is for acquisition and replacement of plant and equipment for government buildings for the purpose of energy saving, up to a limit of \$10 million for each project. The increase of \$34,662,000 (46%) over the revised estimate for 2020–21 is mainly due to the increased requirement for new projects.

Head 42 — ELECTRICAL AND MECHANICAL SERVICES DEPARTMENT

Commitments

Sub-head (Code)	Item (Code)	Ambit	Approved commitment	Accumulated expenditure to 31.3.2020	Revised estimated expenditure for 2020–21	Balance
			\$'000	\$'000	\$'000	\$'000
<i>Operating Account</i>						
700	<i>General non-recurrent</i>					
806	Intelligent detection system for solar photovoltaic panels		5,000	—	100	4,900
807	Lift Modernisation Subsidy Scheme		4,508,400	249,158	458,077	3,801,165
809	Energy-cum-carbon audit on government premises		14,000	—	2,000	12,000
	Total		<u>4,527,400</u>	<u>249,158</u>	<u>460,177</u>	<u>3,818,065</u>