Controlling Officer's Report

Programmes

Programme (1) Energy Supply; Electrical, This programme contributes to Policy Area 9: Internal Security (Secretary for Security) and Policy Area 23: Environmental Protection, Conservation, Power and Sustainable Development Gas and Nuclear Safety (Secretary for the Environment). This programme contributes to Policy Area 5: Travel and **Programme (2) Mechanical Installations** Tourism (Secretary for Commerce and Economic Development), Safety 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). This programme contributes to Policy Area 23: Environmental Programme (3) Energy Efficiency and Conservation, and Protection, Conservation, Power and Sustainable Development Alternative Energy (Secretary for the Environment). contributes **Programme (4) Centralised Services and** programme to Policy Area Intra-Governmental Services (Secretary for Development). **Special Support**

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

Detail

General Revenue.

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

	2018–19 (Actual)	2019–20 (Original)	2019–20 (Revised)	2020–21 (Estimate)
Financial provision (\$m)	161.8	171.9	179.6 (+4.5%)	188.4 (+4.9%)
				(or +9.6% on 2019–20 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.

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	(Actual)	(Actual)	2020 (Plan)
Gas safety				
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	100	100	100	100
within 26 working days (%)	100	100	100	100
within 20 working days (70)	100	100	100	100

2010

2010

2020

	Target	2018 (Actual)	2019 (Actual)	2020 (Plan)
scheduling and inspection of LPG road tankers and cylinder wagons within 18 working days (%)investigation of reports of illegal	100	100	100	100
installations within ten working days (%) response to complaints of excessive storage of LPG within	100	100	100	100
two working days (%)enlistment of competent persons for LPG installations/gasholders within	100	100	100	100
25 working days (%)	100	100	100	100
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 (%) approval for construction of filling stations	100	100	100	100
within 30 working days (%)approval for use of filling stations within 12 working days (%)	100 100	100 100	100 100	100 100
Electrical safety registration of electrical workers/ contractors/competent persons within	100	100	100	100
13 working days (%)registration of generating facilities within	99	99	99	99
40 working days (%)@registration of recognised certification bodies and manufacturers within	95	_	96	95
17 working days (%)endorsement of testing certificate of electrical installations within	100	100	100	100
13 working days (%)investigation of incidents/complaints related to electrical installations/	99	100	100	99
products within ten working days (%)	100	100	100	100
Monitoring of electricity utilities conducting an annual technical performance audit on each of the two power companies under the Scheme of Control Agreements				
within 102 working days (%) providing technical input in the financial	100	100	100	100
auditing review of capital expenditure variances within 55 working days (%) providing technical advice related to	100	100	100	100
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

	2018	2019	2020
	(Actual)	(Actual)	(Estimate)
Gas safety audit inspections to gas supply companies, contractors and	1.277	1 247	1 400
distributors NGIs and related inspections	1 376	1 347	1 400
	1 228	1 263	1 200

	2018	2019	2020
	(Actual)	(Actual)	(Estimate)
follow-up inspections and quality assurance visitsapplications processed for equipment approval and	2 149	2 250	2 100
registration of gas contractors/installers	220	272	235
	483	479	500
	23	28	22
	251	237	250
prosecutions/disciplinary actions conducted/improvement notices served	78	89ε	90ε
enlistment applications processedenquiries/complaints handled	4	8β	5β
	2 597	2 415	2 500
LPG vehicle safety competent persons enlistment applications processed LPG fuel tanks in vehicles approved and revalidated inspections of vehicles and filling stations (all before grant	12p	6ρ	7ρ
	4 685	5 035	7 500#
of approval)inspections of approved filling stations	35	36	35
	249	250	240
	3	3	3
	960	951	950
Electrical safety	700	731	700
site inspections on electrical installationssite inspections on electrical productselectrical workers/contractors/competent persons	9 308	9 093	8 500
	3 908	3 955	3 900
registration applications processed (including renewals) generating facilities registration applications processed@ recognised certification bodies and manufacturers	23 469Δ	41 342Δ	35 000
	—	144	3 000α
applications processedperiodic testing certificates of electrical installations	5 10 967	9 11 035	8 11 000
processedreported electrical incidents investigatedreported unsafe electrical installations/products	382	485	420
investigated	893	648	730
	521	505	510
	63	62	60
	32 867	14 051	14 000
Monitoring of electricity utilities technical indicators assessed in the annual auditing review to monitor the technical performance of electricity			
utilities	62	62	62
auditing review of capital expenditure variancesenquiries handled	41	40	40
	109	110	110
Nuclear safety technical co-operation or exchanges participated exercises and drills participated	3 2	3 2	3 2

⁽²⁾ New target and indicator as from 2020 to monitor the processing of the applications for generating facilities registration.

ε The increase in the number of prosecutions conducted and improvement notices served in 2019 was attributable to stepping up of the enforcement actions for import of gas appliances with valid type approval. It is estimated that the figure in 2020 will be comparable to that in 2019.

β The increase in the number of applications in 2019 was mainly due to the enhanced promotion of competent person requirements. It is expected that the number of applications in 2020 will resume to its normal level similar to that in 2018 as the total number of competent persons could generally meet the market need.

The increase in the number of applications in 2018 was mainly due to the enhanced promotion of competent person requirements. The number of applications in 2019 resumed to its normal level as the total number of competent persons could generally meet the market need. It is expected that the number of applications will remain at a similar level in 2020.

[#] The LPG taxi incentive scheme was launched in 2000. The number of LPG fuel tanks due for the fourth five-yearly revalidation is expected to increase in 2020.

- 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 showed a cyclical trough in 2018 and a cyclical peak in 2019.
- α The Government and the power companies have since 2018 introduced the Feed-in Tariff (FiT) Scheme. It is expected that the number of applications for generating facilities registration will further increase in 2020 when more solar lighting generating facilities are installed under the FiT Scheme.

Matters Requiring Special Attention in 2020-21

- 5 During 2020–21, 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;
- review the Code of Practice for the Electricity (Wiring) Regulations; 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

	2018–19	2019–20	2019–20	2020–21
	(Actual)	(Original)	(Revised)	(Estimate)
Financial provision (\$m)	157.8	412.2	418.7 (+1.6%)	628.6 (+50.1%)

(or +52.5% on 2019–20 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;
 - provision of expert advice.

The key performance measures are:

Targets

	Target	2018 (Actual)	2019 (Actual)	2020 (Plan)
applications of new or major modified railway facilities/systems processed within 25 working days (%)registration of	99	99	99	99
lift/escalator contractors within 40 working days (%) lift/escalator engineers within	100	100	100	100
40 working days (%)lift/escalator workers within	100	100	100	100
40 working days (%)periodic testing certificates for	100	100	100	100
lifts and escalators processed within 13 working days (%)Ψ builders' lifts and tower working	100	100	100	100
platforms processed within 12 working days (%)δ issue of permits to use for	100	100	100	100
lifts and escalators within 13 working days (%) builders' lifts and tower working	100	100	100	100
platforms within 12 working days (%) amusement rides within	100	100	100	100
13 working days (%)approval of design and construction of amusement rides (capacity ≤20	100	100	100	100
persons) within 34 working days (%) amusement rides (capacity ≥21	100	100	100	100
persons) within 48 working days (%) builders' lifts and tower working	100	100	100	100
platforms within 34 working days (%)	100	100	100	100

Revised description of the previous target "processing of applications of new or major modified railway facilities/systems within 25 working days" as from 2019.

Revised description of the previous target "processing of periodic testing certificates for lifts and escalators within 13 working days" as from 2019.

Revised description of the previous target "processing of periodic testing certificates for builders' lifts and tower working platforms within 12 working days" as from 2019.

Indicators

	2018	_010	2020
	(Actual)		(Estimate)
applications processed			
new brands/models of lift and escalator equipment	394	579‡	500‡
design and construction of builders' lifts and tower			
working platforms	31	32	30
working platformsnew or major modified railway facilities/systems	575	506η	506
certificates processed		·	
lifts and escalators	88 456	89 654	90 800
builders' lifts and tower working platforms	277	188∧	190
amusement rides	338	318	320

	2018 (Actual)	2019 (Actual)	2020 (Estimate)
inspections			
lifts and escalators	15 409	29 101γ	28 900
percentage of existing lifts and escalators (%)	19.8	36.8γ	36.1
builders' lifts and tower working platforms	301	303	300
amusement rides	1 894	1 883	1 850
railway facilities/systems	348	350	390τ
peak tramway	13	14	14
tramway	170	170	170
aerial ropeways	93	91	90
incidents investigated			
lifts and escalators	273	276	276
aerial ropeways	3	3	3
amusement rides	16	16	16
peak tramway	2	1	1
tramway	10	12	12
railways	110	113	113
builders' lifts and tower working platforms,			
and others	4	2Ф	4
incidents/1 000 registered lifts	6.0	5.3◊	5.7
incidents/100 registered escalators	17.1	17.9	17.5
enquiries/complaints handled	3 872	4 075	4 000

[‡] The increase in 2019 was attributed to the need for new brands/models of lift equipment to comply with the new design standard made effective in September 2019. It is expected that the number of applications would drop gradually in 2020.

- ^ The decrease in 2019 was mainly attributed to fewer number of active construction sites.
- γ The number of inspections in 2019 was increased due to strengthening the surveillance of maintenance works carried out by registered contractors for enhancing the safety of aged lifts.
- τ The number of inspections in 2020 is expected to increase due to strengthening the audits of existing railway facilities/systems.
- Φ The decrease was due to lower number of builder's lift and tower working platform incidents in 2019.
- ♦ The decrease in 2019 was attributed to stepped-up inspection and safety publicity.

Matters Requiring Special Attention in 2020-21

- 9 During 2020–21, 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 thorough and systematic audit of the MTRCL's asset management system and safety management system.

η The decrease in 2019 was attributed to a reduction in the number of applications related to new railway projects.

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

	2018–19 (Actual)	2019–20 (Original)	2019–20 (Revised)	2020–21 (Estimate)
Financial provision (\$m)	446.9	492.4	391.0 (-20.6%)	594.3 (+52.0%)
				(or +20.7% on 2019–20 Original)

Aim

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

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	2018 (Actual)	2019 (Actual)	2020 (Plan)
registration under the voluntary Energy Efficiency Labelling Scheme (EELS)		, ,		, ,
within 17 working days (%) processing of product submissions under the mandatory EELS within	99	100	99	99
17 working days (%)approval of applications under the	99	100	99	99
voluntary water-cooled air-conditioning system scheme for the design or operation of the evaporative cooling towers within				
17 working days (%)registration under the voluntary Energy	99	100	100	99
Efficiency Registration Scheme for Buildings within 17 working days (%) annual updating of Hong Kong Energy	99	100	100	99
End-use Database (% completed)registration of Registered Energy Assessors under the Mandatory Building Energy Code (BEC) Scheme	100	100	100	100
within 40 working days (%)	99	100	100	99

Indicators

	2018	2019	2020
	(Actual)	(Actual)	(Estimate)
Mandatory EELS product submissions processed	505	1 425µ	600 μ
	683	866µ	700μ
Voluntary EELS energy labels developed energy labels implemented energy labels issued.	0¶	0¶	0¶
	0¶	0¶	0¶
	261	201¢	200 ф
Mandatory BEC Scheme sampling inspections for submissions relating to new buildings, major retrofitting works and energy audit sampling inspections of buildings	23	24	24
	982	984	980
Voluntary Energy Efficiency Registration Scheme for Buildings certificate issued	20	23	20
Energy consumption study studies completedenergy consumption indicators developed/updated	1	1	1
	1	1	1
Voluntary water-cooled air-conditioning system scheme applications received and processedinstallations completed	68	56	55
	48	54	45
Research and development on the application of innovative energy efficiency technologies studies completed	3	3	3
Energy efficiency and conservation promotion talks delivered/visits organised for organisations/schools enquiries handled	506	415ə	450
	3 026	3 852	2 200

- μ The upsurge in the number of product submissions and site inspections in 2019 was due to the 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 in 2020 is expected to level gradually.
- ¶ 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.
- φ There was a decrease in the number of energy labels in 2019 as some products under the voluntary EELS were covered by the mandatory EELS Phase III. The figure in 2020 will be comparable to that in 2019.
- Property Some school visits to the EMSD exhibition gallery and outreach talks at schools were cancelled due to transportation situations and school suspension.

Matters Requiring Special Attention in 2020-21

- 13 During 2020–21, the Department will:
- continue to implement the mandatory EELS, conduct studies 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 and the associated codes of practice, and to promote building energy efficiency among stakeholders in the built environment;
- administer and promote the updated voluntary Hong Kong Energy Efficiency Registration Scheme for Buildings to encourage outperforming the statutory requirements through recognition of high building energy efficiency;
- continue the development of the district cooling system at the Kai Tak Development and the planning and design of the proposed district cooling systems in the Tung Chung New Town Extension (East) and Kwu Tung North New Development Areas, and conduct feasibility studies on the provision of district cooling systems in 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;
- provide technical advice and support to government bureaux and departments on energy saving through organising seminars, experience sharing workshops and other channels;
- promote retro-commissioning to the relevant trades and professions;
- 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

2020–21 (Estimate)	2019–20 (Revised)	2019–20 (Original)	2018–19 (Actual)	
107.1 (+3.8%)	103.2 (+3.6%)	99.6	92.2	Financial provision (\$m)
(or +7.5% on 2019–20 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).

ANALYSIS OF FINANCIAL PROVISION

Pro	gramme	2018–19 (Actual) (\$m)	2019–20 (Original) (\$m)	2019–20 (Revised) (\$m)	2020–21 (Estimate) (\$m)
(1)	Energy Supply; Electrical, Gas and				
(1)	Nuclear Safety	161.8	171.9	179.6	188.4
(2)	Mechanical Installations Safety	157.8	412.2	418.7	628.6
(3)	Energy Efficiency and Conservation,	4450	40.	201.0	
(4)	and Alternative Energy Centralised Services and Special	446.9	492.4	391.0	594.3
(4)	Support	92.2	99.6	103.2	107.1
		858.7	1,176.1	1,092.5 (-7.1%)	1,518.4 (+39.0%)

(or +29.1% on 2019–20 Original)

Analysis of Financial and Staffing Provision

Programme (1)

Provision for 2020–21 is \$8.8 million (4.9%) higher than the revised estimate for 2019–20. This is mainly due to the increased provision for the net increase of four posts and the increased cash flow for the non-recurrent item for the intelligent detection system for solar photovoltaic panels.

Programme (2)

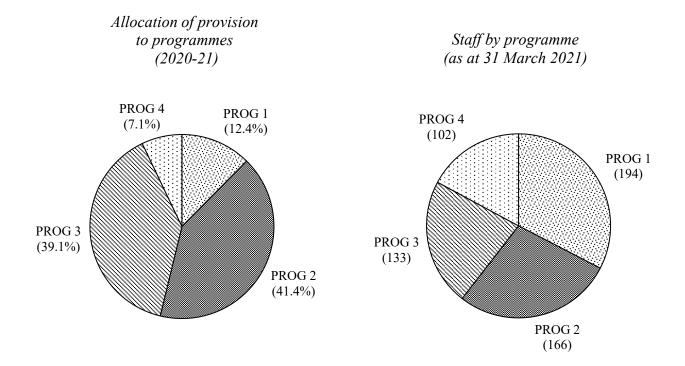
Provision for 2020–21 is \$209.9 million (50.1%) higher than the revised estimate for 2019–20. This is mainly due to the increased cash flow for the non-recurrent item for Lift Modernisation Subsidy Scheme.

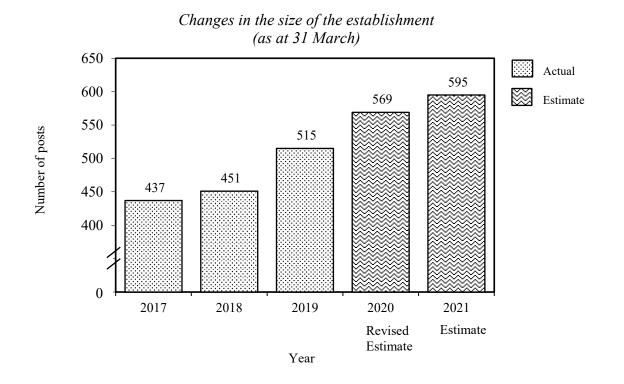
Programme (3)

Provision for 2020–21 is \$203.3 million (52.0%) higher than the revised estimate for 2019–20. This is mainly due to the increased provision for capital non-works projects, promoting energy efficiency and conservation, recurrent consequence of the development of the district cooling system at the Kai Tak Development, and the net increase of 20 posts.

Programme (4)

Provision for 2020–21 is \$3.9 million (3.8%) higher than the revised estimate for 2019–20. This is mainly due to the increased provision for the net increase of two posts and operating expenses.





Sub- head (Code)		Actual expenditure 2018–19	Approved estimate 2019–20	Revised estimate 2019–20	Estimate 2020–21
		\$,000	\$'000	\$'000	\$'000
	Operating Account				
	Recurrent				
000	Operational expenses	528,286	647,821	644,050	722,858
	Total, Recurrent	528,286	647,821	644,050	722,858
	Non-Recurrent				
700	General non-recurrent	2,191	249,688	249,638	465,677
	Total, Non-Recurrent	2,191	249,688	249,638	465,677
	Total, Operating Account	530,477	897,509	893,688	1,188,535
	Capital Account				
	Plant, Equipment and Works				
661 696	Minor plant, vehicles and equipment (block vote)	34,195	38,000	32,160	211,500
090	Energy saving projects in government buildings (block vote)	294,045	240,593	166,661	118,351
	Total, Plant, Equipment and Works	328,240	278,593	198,821	329,851
	Total, Capital Account	328,240	278,593	198,821	329,851
	Total Expenditure	858,717	1,176,102	1,092,509	1,518,386

Details of Expenditure by Subhead

The estimate of the amount required in 2020–21 for the salaries and expenses of the Electrical and Mechanical Services Department is \$1,518,386,000. This represents an increase of \$425,877,000 over the revised estimate for 2019–20 and \$659,669,000 over the actual expenditure in 2018–19.

Operating Account

Recurrent

- **2** Provision of \$722,858,000 under *Subhead 000 Operational expenses* is for the salaries, allowances and other operating expenses of the Electrical and Mechanical Services Department. The increase of \$78,808,000 (12.2%) over the revised estimate for 2019–20 is mainly due to the net increase of 26 posts in 2020–21, and the increased provision for recurrent consequence of the development of the district cooling system at the Kai Tak Development and promoting energy efficiency and conservation.
- 3 The establishment as at 31 March 2020 will be 569 posts. It is expected that there will be a net increase of 26 posts in 2020–21. Subject to certain conditions, the controlling officer may under delegated power create or delete non-directorate posts during 2020–21, but the notional annual mid-point salary value of all such posts must not exceed \$426,633,000.
 - 4 An analysis of the financial provision under Subhead 000 Operational expenses is as follows:

	2018–19 (Actual) (\$'000)	2019–20 (Original) (\$'000)	2019–20 (Revised) (\$'000)	2020–21 (Estimate) (\$'000)
Personal Emoluments				
- Salaries - Allowances - Job-related allowances	370,320 6,273 9	437,814 6,541 1	426,426 6,219 1	473,851 6,437 1
Personnel Related Expenses				
Mandatory Provident Fund contribution - Civil Service Provident Fund	867	1,568	1,406	1,531
contribution	18,913	21,550	22,605	25,208
Departmental Expenses				
- General departmental expenses	131,904	180,347	187,393	215,830
	528,286	647,821	644,050	722,858

Capital Account

Plant, Equipment and Works

- 5 Provision of \$211,500,000 under *Subhead 661 Minor Plant, vehicles and equipment (block vote)* represents an increase of \$179,340,000 (557.6%) over the revised estimate for 2019–20. This is mainly due to the increased requirement for projects.
- 6 Provision of \$118,351,000 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 decrease of \$48,310,000 (29%) against the revised estimate for 2019–20 is mainly due to the reduced requirement for projects.

Commitments

Sub- head (Code)	Item (Code)	Ambit	Approved commitment \$'000	Accumulated expenditure to 31.3.2019 \$'000	Revised estimated expenditure for 2019–20	Balance \$'000
Opera	ting Ac	count				
700		General non-recurrent				
	806	Intelligent detection system for solar photovoltaic panels	5,000	_	_	5,000
	807	Lift Modernisation Subsidy Scheme Ω	$4{,}508{,}400\Omega$	2,191	248,688	4,257,521
	808	Consultancy studies on multi-storey vehicle maintenance workshop buildings	2,100	_	950	1,150
	809	Energy-cum-carbon audit on government premises§	14,000§	_	_	14,000
		Total	4,529,500	2,191	249,638	4,277,671

 $[\]Omega$ The approved commitment for the item was \$2,500 million. An increase in commitment of \$2,008.4 million is sought in the context of the Appropriation Bill 2020.

[§] This is a new item, funding for which is sought in the context of the Appropriation Bill 2020.