

## Head 42 — ELECTRICAL AND MECHANICAL SERVICES DEPARTMENT

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

**Estimate 2015–16** ..... **\$462.4m**

**Establishment ceiling 2015–16** (notional annual mid-point salary value) representing an estimated 386 non-directorate posts as at 31 March 2015 rising by 27 posts to 413 posts as at 31 March 2016..... **\$234.0m**

In addition, there will be an estimated 13 directorate posts as at 31 March 2015 rising by two posts to 15 posts as at 31 March 2016.

### Controlling Officer's Report

#### Programmes

|   |   |
|---|---|
| <b>Programme (1) Energy Supply; Electrical, Gas and Nuclear Safety</b>          | 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).  |
| <b>Programme (2) Mechanical Installations Safety</b>                            | This programme contributes to 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). |
| <b>Programme (3) Energy Efficiency and Conservation, and Alternative Energy</b> | This programme contributes to Policy Area 23: Environmental Protection, Conservation, Power and Sustainable Development (Secretary for the Environment).  |
| <b>Programme (4) Centralised Services and Special Support</b>                   | 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. Such expenses will be reimbursed to Government through General Revenue.

#### Detail

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

|                           | 2013–14<br>(Actual) | 2014–15<br>(Original) | 2014–15<br>(Revised) | <b>2015–16<br/>(Estimate)</b>     |
|---------------------------|---------------------|-----------------------|----------------------|-----------------------------------|
| Financial provision (\$m) | 130.9               | 124.7                 | 135.3<br>(+8.5%)     | <b>130.8</b><br>(–3.3%)           |
|                           |                     |                       |                      | (or +4.9% on<br>2014–15 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 working 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;

## Head 42 — ELECTRICAL AND MECHANICAL SERVICES DEPARTMENT

- 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 and recognised manufacturers; 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 | 2013<br>(Actual) | 2014<br>(Actual) | 2015<br>(Plan) |
|---|--------|------------------|------------------|----------------|
| <i>Gas safety</i>   |        |                  |                  |                |
| registration of installers within<br>12 working days (%).....   | 100    | 100              | 100              | <b>100</b>     |
| registration of contractors within<br>38 working days (%).....  | 100    | 100              | 100              | <b>100</b>     |
| approval for construction of notifiable<br>gas installations within<br>30 working days (%).....         | 100    | 100              | 100              | <b>100</b>     |
| approval for use of notifiable gas<br>installations within<br>12 working days (%).....                  | 100    | 100              | 100              | <b>100</b>     |
| approval for use of equipment/materials<br>within 26 working days (%).....                              | 100    | 100              | 100              | <b>100</b>     |
| scheduling and inspection of LPG road<br>tankers and cylinder wagons within<br>18 working days (%)..... | 100    | 100              | 100              | <b>100</b>     |
| investigation of reports of illegal<br>installations within<br>ten working days (%).....                | 100    | 100              | 100              | <b>100</b>     |
| response to complaints of excessive<br>storage of LPG within<br>two working days (%).....               | 100    | 100              | 100              | <b>100</b>     |

## Head 42 — ELECTRICAL AND MECHANICAL SERVICES DEPARTMENT

|  | Target | 2013<br>(Actual) | 2014<br>(Actual) | 2015<br>(Plan) |
|--|--------|------------------|------------------|----------------|
| enlistment of competent persons for<br>LPG installations/gasholders within<br>25 working days (%).....   | 100    | 100              | 100              | <b>100</b>     |
| <i>LPG vehicle safety</i>  |        |                  |                  |                |
| enlistment of competent persons for<br>maintenance of fuel systems within<br>25 working days (%).....  | 100    | 100              | 100              | <b>100</b>     |
| approval for use of LPG fuel tanks in<br>vehicles within 26 working days (%) .....   | 100    | 100              | 100              | <b>100</b>     |
| approval for construction of filling stations<br>within 30 working days (%) .....  | 100    | 100              | 100              | <b>100</b>     |
| approval for use of filling stations within<br>12 working days (%).....  | 100    | 100              | 100              | <b>100</b>     |
| <i>Electrical safety</i>   |        |                  |                  |                |
| registration of electrical workers/<br>contractors/competent persons within<br>13 working days (%).....  | 99     | 99               | 99               | <b>99</b>      |
| registration of recognised certification<br>bodies and manufacturers within<br>17 working days (%).....  | 100    | 100              | 100              | <b>100</b>     |
| endorsement of testing certificate of<br>electrical installations within<br>13 working days (%).....   | 99     | 99               | 99               | <b>99</b>      |
| investigation of incidents/complaints<br>related to electrical installations/<br>products within ten working days (%).....   | 100    | 100              | 100              | <b>100</b>     |
| <i>Monitoring of electricity utilities</i>   |        |                  |                  |                |
| conducting an annual technical<br>performance audit on each of the<br>two power companies under the<br>Scheme of Control Agreements<br>within 102 working days (%) ..... | 100    | 100              | 100              | <b>100</b>     |
| providing technical input in the financial<br>auditing review of capital expenditure<br>variances within 55 working days (%) ....  | 100    | 100              | 100              | <b>100</b>     |
| providing technical advice related to<br>electricity utilities matters within<br>13 working days (%).....  | 100    | 100              | 100              | <b>100</b>     |

### *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.

### *Indicators*

|  | 2013<br>(Actual) | 2014<br>(Actual) | 2015<br>(Estimate) |
|--|------------------|------------------|--------------------|
| <i>Gas safety</i>  |                  |                  |                    |
| audit inspections to gas supply companies, contractors and<br>distributors.....                      | 1 445            | 1 380            | <b>1 400</b>       |
| notifiable gas installations and related inspections .....   | 1 116            | 1 143            | <b>1 100</b>       |
| follow-up inspections and quality assurance visits .....   | 2 165            | 2 207            | <b>2 100</b>       |
| applications processed for equipment approval and<br>registration of gas contractors/installers..... | 266              | 194              | <b>225</b>         |
| LPG road tankers and cylinder wagons inspected .....   | 516              | 532              | <b>510</b>         |
| notifiable gas installations approved.....   | 20               | 23               | <b>22</b>          |
| gas incidents investigated.....  | 339              | 332              | <b>340</b>         |
| prosecutions/disciplinary actions conducted/improvement<br>notices served .....                      | 63               | 61               | <b>60</b>          |
| competent persons (for LPG installations/gasholders)<br>enlistment applications processed .....      | 0§               | 4                | <b>3</b>           |
| enquiries/complaints handled.....  | 2 422            | 2 403            | <b>2 400</b>       |

## Head 42 — ELECTRICAL AND MECHANICAL SERVICES DEPARTMENT

|   | 2013<br>(Actual) | 2014<br>(Actual) | 2015<br>(Estimate) |
|---|------------------|------------------|--------------------|
| <i>LPG vehicle safety</i>   |                  |                  |                    |
| competent persons enlistment applications processed .....   | 20 $\rho$        | 11 $\rho$        | 11 $\rho$          |
| LPG fuel tanks in vehicles approved and revalidated .....   | 2 769            | 3 817 $\Psi$     | 7 000 $\Psi$       |
| inspections of vehicles and filling stations (all before grant<br>of approval).....   | 34               | 36               | 34                 |
| inspections of approved filling stations.....   | 244              | 251              | 250                |
| filling stations approved.....  | 3                | 2                | 2                  |
| enquiries/complaints handled.....   | 955              | 913              | 920                |
| <i>Electrical safety</i>  |                  |                  |                    |
| site inspections on electrical installations .....  | 8 647            | 8 672            | 8 500              |
| site inspections on electrical products.....  | 3 927            | 3 951            | 3 900              |
| electrical workers/contractors/competent persons<br>registration applications processed (including renewals)....                      | 40 480 $\Delta$  | 29 027 $\Delta$  | 22 000 $\Delta$    |
| recognised certification bodies and manufacturers<br>applications processed .....   | 5                | 6                | 5                  |
| periodic testing certificates of electrical installations<br>processed .....  | 10 362           | 9 609            | 10 000             |
| reported electrical incidents investigated .....  | 359              | 401              | 350                |
| reported unsafe electrical installations/products<br>investigated.....  | 743              | 633              | 750                |
| prosecutions/disciplinary actions conducted.....  | 633              | 886 $\ddagger$   | 850 $\ddagger$     |
| electrical products tested.....   | 62               | 63               | 60                 |
| enquiries handled .....   | 38 974 $\wedge$  | 33 188 $\wedge$  | 25 000 $\wedge$    |
| <i>Monitoring of electricity utilities</i>  |                  |                  |                    |
| technical indicators assessed in the annual auditing review<br>to monitor the technical performance of electricity<br>utilities ..... | 62               | 62               | 62                 |
| projects assessed relating to technical input in the financial<br>auditing review of capital expenditure variances .....              | 33               | 33               | 33                 |
| enquiries handled .....   | 110              | 110              | 110                |
| <i>Nuclear safety</i>   |                  |                  |                    |
| technical co-operation or exchanges participated .....  | 3                | 3                | 3                  |
| exercises and drills participated .....   | 2                | 2                | 2                  |

§ There was no application received in 2013 as the total number of competent persons could generally meet the market need.

$\rho$  The increase in the number of applications in 2013 was mainly due to the promotion of competent person requirement. The number of applications in 2014 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 in 2015 will be similar to that in 2014.

$\Psi$  The LPG taxi incentive scheme was launched in 2000. The number of LPG fuel tanks requiring the third five-yearly revalidation began to increase in 2014 and is expected to further increase in 2015.

$\Delta$  The number of three-yearly renewal applications of electrical workers/contractors/competent persons showed a cyclical peak in 2013, dropped in 2014 and is expected to drop further in 2015.

$\ddagger$  The increase in the number of prosecutions/disciplinary actions in 2014 was mainly due to the increase in the number of prosecutions against individual owners of buildings without Incorporated Owners who failed to submit periodic testing certificates of electrical installations. It is expected that the number of prosecutions/disciplinary actions in 2015 will be similar to that in 2014.

$\wedge$  Arising from the peak of the three-yearly renewal registration of electrical workers/contractors/competent persons in 2013, the number of enquiries reached its peak in 2013 and decreased in 2014. The number of enquiries in 2015 is expected to further reduce with the decreasing number of renewal applications in 2015.

### **Matters Requiring Special Attention in 2015–16**

5 During 2015–16, the Department will:

- continue to monitor the operations and maintenance of LPG storage installations, and
- provide technical support to Environment Bureau on matters relating to the future development of the electricity market and its regulatory framework.

## Head 42 — ELECTRICAL AND MECHANICAL SERVICES DEPARTMENT

### Programme (2): Mechanical Installations Safety

|                           | 2013–14<br>(Actual) | 2014–15<br>(Original) | 2014–15<br>(Revised) | <b>2015–16<br/>(Estimate)</b>      |
|---------------------------|---------------------|-----------------------|----------------------|------------------------------------|
| Financial provision (\$m) | 159.1               | 159.7                 | 158.3<br>(–0.9%)     | <b>103.5</b><br>(–34.6%)           |
|                           |                     |                       |                      | (or –35.2% on<br>2014–15 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 a voluntary registration scheme for vehicle mechanics. 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 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 a voluntary registration scheme for vehicle mechanics; and
- provision of expert advice.

8 The key performance measures are:

#### *Targets*

|   | Target | 2013<br>(Actual) | 2014<br>(Actual) | <b>2015<br/>(Plan)</b> |
|---|--------|------------------|------------------|------------------------|
| approval of new or major modified railway facilities/systems within 25 working days (%).....          | 99     | 99               | 99               | <b>99</b>              |
| registration of lift/escalator contractors within 40 working days (%) .....                           | 100    | 100              | 100              | <b>100</b>             |
| lift/escalator engineers within 40 working days (%) .....   | 100    | 100              | 100              | <b>100</b>             |
| lift/escalator workers within 40 working days (%) .....   | 100    | 100              | 100              | <b>100</b>             |
| processing of periodic testing certificates for lifts and escalators within 13 working days (%) ..... | 100    | 100              | 100              | <b>100</b>             |
| builders' lifts and tower working platforms within 12 working days (%) .....                          | 100    | 100              | 100              | <b>100</b>             |

## Head 42 — ELECTRICAL AND MECHANICAL SERVICES DEPARTMENT

|   | Target | 2013<br>(Actual) | 2014<br>(Actual)   | 2015<br>(Plan)           |
|---|--------|------------------|--------------------|--------------------------|
| issue of permits to use for                             |        |                  |                    |                          |
| lifts and escalators within                             |        |                  |                    |                          |
| 13 working days (%) .....                               | 100    | 100              | 100                | <b>100</b>               |
| builders' lifts and tower working                       |        |                  |                    |                          |
| platforms within  |        |                  |                    |                          |
| 12 working days (%) .....                               | 100    | 100              | 100                | <b>100</b>               |
| amusement rides within                                  |        |                  |                    |                          |
| 13 working days (%) .....                               | 100    | 100              | 100                | <b>100</b>               |
| approval of design and construction of                  |        |                  |                    |                          |
| amusement rides (capacity ≤20                           |        |                  |                    |                          |
| persons) within   |        |                  |                    |                          |
| 34 working days (%) .....                               | 100    | 100              | 100                | <b>100</b>               |
| amusement rides (capacity ≥21                           |        |                  |                    |                          |
| persons) within   |        |                  |                    |                          |
| 48 working days (%) .....                               | 100    | 100              | 100                | <b>100</b>               |
| builders' lifts and tower working                       |        |                  |                    |                          |
| platforms within  |        |                  |                    |                          |
| 34 working days (%) .....                               | 100    | 100              | 100                | <b>100</b>               |
| <b>Indicators</b>                                       |        |                  |                    |                          |
|   |        | 2013<br>(Actual) | 2014<br>(Actual)   | 2015<br>(Estimate)       |
| applications processed                                  |        |                  |                    |                          |
| new brands/models of lift and escalator equipment ..... |        | 399              | 408                | <b>410</b>               |
| design and construction of builders' lifts and tower    |        |                  |                    |                          |
| working platforms .....                                 |        | 40               | 25                 | <b>30</b>                |
| new or major modified railway facilities/systems .....  |        | 451              | 493                | <b>490</b>               |
| certificates processed                                  |        |                  |                    |                          |
| lifts and escalators .....                              |        | 85 699           | 81 114             | <b>82 000</b>            |
| builders' lifts and tower working platforms .....       |        | 214              | 240                | <b>240</b>               |
| amusement rides .....                                   |        | 202              | 165                | <b>200</b>               |
| inspections   |        |                  |                    |                          |
| lifts and escalators .....                              |        | 10 564           | 12 273             | <b>11 800</b>            |
| percentage of existing lifts and escalators (%) .....   |        | 15.1             | 17.2               | <b>16.5</b>              |
| builders' lifts and tower working platforms .....       |        | 270              | 300                | <b>300</b>               |
| amusement rides .....                                   |        | 1 900            | 1 850              | <b>1 800</b>             |
| railway facilities/systems .....                        |        | 140              | 168                | <b>175</b>               |
| peak tramway .....                                      |        | 13               | 13                 | <b>13</b>                |
| tramway .....   |        | 204              | 192                | <b>180</b>               |
| aerial ropeways .....                                   |        | 90               | 90                 | <b>90</b>                |
| incidents investigated                                  |        |                  |                    |                          |
| lifts and escalators .....                              |        | 271              | 270                | <b>270</b>               |
| aerial ropeways .....                                   |        | 5                | 1 <sup>γ</sup>     | <b>3</b>                 |
| amusement rides .....                                   |        | 16               | 16                 | <b>16</b>                |
| tramway and peak tramway .....                          |        | 10               | 8                  | <b>10</b>                |
| railways .....  |        | 61               | 93 <sup>α</sup>    | <b>95<sup>α</sup></b>    |
| builders' lifts and tower working platforms,            |        |                  |                    |                          |
| and others .....  |        | 6                | 6                  | <b>6</b>                 |
| incidents/1 000 registered lifts .....                  |        | 5.4              | 7.2 <sup>ω</sup>   | <b>7.2</b>               |
| incidents/100 registered escalators .....               |        | 16.5             | 18.6 <sup>ω</sup>  | <b>18.6</b>              |
| enquiries/complaints handled .....                      |        | 2 722            | 3 002 <sup>¶</sup> | <b>3 054<sup>¶</sup></b> |

<sup>γ</sup> The reduction in the number of incidents investigated for aerial ropeways in 2014 was due to the less number of incidents.

<sup>α</sup> The number of railway incidents warranting investigation increased in 2014. The number of railway incidents investigated in 2015 is expected to remain stable.

<sup>ω</sup> The number of reported incidents of lifts and escalators increased in 2014 after a series of publicity activities conducted since 2012 to raise the awareness of Responsible Persons of lifts and escalators about their responsibility of reporting incidents under the new LEO enacted in late December 2012. The vast majority of these incidents only involved minor injuries of users arising from inappropriate use of lifts and escalators.

<sup>¶</sup> More enquiries were received on how to implement lift modernisation for the aged lifts in 2014 after a series of publicity activities conducted since 2012 to raise the awareness of Responsible Persons on the needs and benefits of modernising aged lifts. It is expected that similar trend will continue in 2015.

## Head 42 — ELECTRICAL AND MECHANICAL SERVICES DEPARTMENT

### *Matters Requiring Special Attention in 2015–16*

- 9 During 2015–16, 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;
  - continue to promote and implement the voluntary registration scheme for vehicle mechanics, and plan for a voluntary registration scheme for vehicle maintenance workshops;
  - continue the stepped-up inspection and enforcement actions, public education and publicity efforts to enhance the safety of lifts and escalators;
  - continue to implement the LEO and publicise the requirements to relevant stakeholders; and
  - enhance safety inspection and supervision of railway service provided by the MTR Corporation Limited.

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

|                           | 2013–14<br>(Actual) | 2014–15<br>(Original) | 2014–15<br>(Revised) | <b>2015–16<br/>(Estimate)</b>     |
|---------------------------|---------------------|-----------------------|----------------------|-----------------------------------|
| Financial provision (\$m) | 142.3               | 155.3                 | 140.9<br>(–9.3%)     | <b>150.3</b><br>(+6.7%)           |
|                           |                     |                       |                      | (or –3.2% on<br>2014–15 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 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 energy efficiency and conservation matters;
- preparation and review of codes of practice and technical guidelines;
- development and implementation of energy saving, energy efficiency and conservation programmes and projects;
- research and development on application of innovative energy efficiency 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 | 2013<br>(Actual) | 2014<br>(Actual) | <b>2015<br/>(Plan)</b> |
|---|--------|------------------|------------------|------------------------|
| registration under the voluntary Energy Efficiency Labelling Scheme (EELS) within 17 working days (%) ..... | 99     | 100              | 100              | <b>99</b>              |
| processing of product submissions under the mandatory EELS within 17 working days (%).....                  | 99     | 100              | 100              | <b>99</b>              |

## Head 42 — ELECTRICAL AND MECHANICAL SERVICES DEPARTMENT

|  | Target | 2013<br>(Actual) | 2014<br>(Actual) | 2015<br>(Plan) |
|--|--------|------------------|------------------|----------------|
| 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 (%) .....   | 90     | 99               | 100              | 99             |

### Indicators

|   | 2013<br>(Actual) | 2014<br>(Actual)   | 2015<br>(Estimate) |
|---|------------------|--------------------|--------------------|
| <i>Mandatory EELS</i>   |                  |                    |                    |
| product submissions processed .....   | 703              | 681                | 2 200 <sub>μ</sub> |
| site inspections on prescribed products.....  | 603              | 604                | 600                |
| <i>Voluntary EELS</i>   |                  |                    |                    |
| energy labels developed .....   | 1                | 1                  | 0                  |
| energy labels implemented.....  | 1                | 1                  | 0                  |
| energy labels issued.....   | 244              | 411 <sub>β</sub>   | 240 <sub>β</sub>   |
| <i>Mandatory BEC Scheme</i>   |                  |                    |                    |
| sampling inspections for submissions relating to new buildings, major retrofitting works and energy audit ..... | 20               | 20                 | 20                 |
| sampling inspections of buildings.....  | 967              | 914                | 900                |
| <i>Voluntary Energy Efficiency Registration Scheme for Buildings</i>  |                  |                    |                    |
| certificates issued .....   | 270 <sub>α</sub> | 220 <sub>α</sub>   | 130 <sub>α</sub>   |
| <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 .....   | 79               | 87                 | 80                 |
| installations completed.....  | 73               | 74                 | 70                 |
| <i>Energy-saving projects for Government and public bodies</i>  |                  |                    |                    |
| projects completed .....  | 50               | 10 <sub>Ω</sub>    | 0 <sub>Ω</sub>     |
| <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 .....  | 375              | 378                | 370                |
| enquiries handled .....   | 4 467            | 3 664 <sub>Λ</sub> | 3 600 <sub>Λ</sub> |

μ An upsurge in the number of product submissions is expected in 2015 due to the anticipated increase in the number of submissions of room air conditioners, refrigerating appliances and washing machines arising from the full implementation of new energy efficiency grading standards for the three prescribed products in 2015.

β The increase in the number of energy labels issued in 2014 was mainly due to the active participation of suppliers in the extension of the voluntary scheme to gas cookers which was implemented in late 2013. The number of energy labels issued in 2015 is expected to decrease.

α The number of applications under the voluntary registration scheme decreased from 2013 onwards as compliance with the BEC became mandatory with the implementation of the BEEO in September 2012.



## Head 42 — ELECTRICAL AND MECHANICAL SERVICES DEPARTMENT

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- Ω All the projects undertaken by the Department were completed in 2014. By end 2014, all minor works and capital works projects have adopted appropriate energy efficient features and these projects are funded by resources allocated to their respective project votes and carried out by the relevant works departments.
- Λ The reduction in the number of public enquiries in 2014 was mainly due to the enhanced public awareness of the requirements of the BEEO as a result of publicity efforts. It is expected that this trend will continue in 2015.

### *Matters Requiring Special Attention in 2015–16*

**13** During 2015–16, the Department will:

- continue to implement the mandatory EELS, and fully implement the new energy efficiency grading structure for room air conditioners, refrigerating appliances and washing machines, and consult the trade on the extension of the scope of the scheme to cover more appliances;
- continue to promote wider application of the voluntary EELS which covers 23 types of electrical appliances, gas appliances and vehicles;
- continue to implement the BEEO and to review the associated codes of practice;
- continue the development of a district cooling system at the Kai Tak Development;
- continue research and development works on the application of innovative energy efficiency technologies;
- provide technical advice and support to government bureaux and departments on energy savings through organising seminars and experience sharing workshops;
- continue to promote and provide technical advice relating to the implementation of energy-saving measures in government and public venues; and
- promote public awareness on best practices in energy efficiency and conservation and renewable energy through publicity and public education programmes.

### **Programme (4): Centralised Services and Special Support**

|                           | 2013–14<br>(Actual) | 2014–15<br>(Original) | 2014–15<br>(Revised) | <b>2015–16<br/>(Estimate)</b>     |
|---------------------------|---------------------|-----------------------|----------------------|-----------------------------------|
| Financial provision (\$m) | 70.6                | 73.2                  | 75.6<br>(+3.3%)      | <b>77.8</b><br>(+2.9%)            |
|                           |                     |                       |                      | (or +6.3% on<br>2014–15 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  | 2013–14<br>(Actual)<br>(\$m) | 2014–15<br>(Original)<br>(\$m) | 2014–15<br>(Revised)<br>(\$m) | 2015–16<br>(Estimate)<br>(\$m)            |
|--|------------------------------|--------------------------------|-------------------------------|---|
| (1) Energy Supply; Electrical, Gas and Nuclear Safety .....          | 130.9                        | 124.7                          | 135.3                         | <b>130.8</b>                              |
| (2) Mechanical Installations Safety .....                            | 159.1                        | 159.7                          | 158.3                         | <b>103.5</b>                              |
| (3) Energy Efficiency and Conservation, and Alternative Energy ..... | 142.3                        | 155.3                          | 140.9                         | <b>150.3</b>                              |
| (4) Centralised Services and Special Support .....                   | 70.6                         | 73.2                           | 75.6                          | <b>77.8</b>                               |
|  | 502.9                        | 512.9                          | 510.1<br>(–0.5%)              | <b>462.4</b><br>(–9.4%)                   |
|  |                              |                                |                               | <b>(or –9.8% on<br/>2014–15 Original)</b> |

#### Analysis of Financial and Staffing Provision

##### Programme (1)

Provision for 2015–16 is \$4.5 million (3.3%) lower than the revised estimate for 2014–15. This is mainly due to the reduced provision for implementation of and publicity on the EO and the GSO, and other operating expenses.

##### Programme (2)

Provision for 2015–16 is \$54.8 million (34.6%) lower than the revised estimate for 2014–15. This is mainly due to the reduced requirements for modernisation of existing lifts of government bureaux and departments, partly offset by the increased provision for the creation of 12 posts.

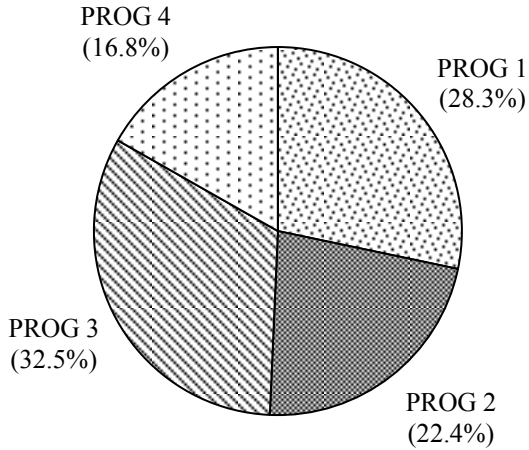
##### Programme (3)

Provision for 2015–16 is \$9.4 million (6.7%) higher than the revised estimate for 2014–15. This is mainly due to the increased provision for recurrent consequence of the development of a district cooling system at the Kai Tak Development and the creation of 14 posts, partly offset by the reduced provision for promoting energy efficiency and conservation and upon completion of the capital account projects for procuring energy-saving equipment for various government departments.

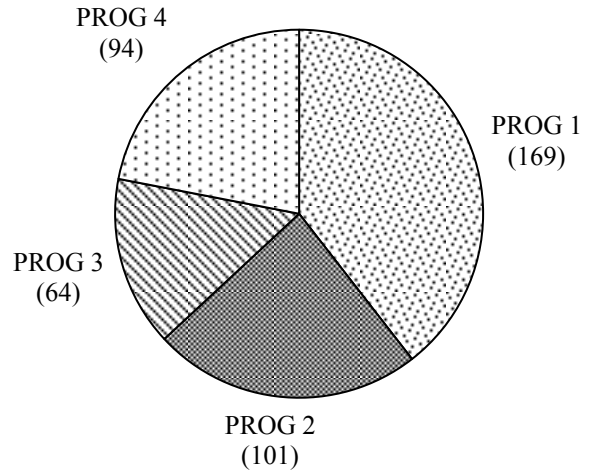
##### Programme (4)

Provision for 2015–16 is \$2.2 million (2.9%) higher than the revised estimate for 2014–15. This is mainly due to the increased provision for the creation of three posts and other operating expenses.

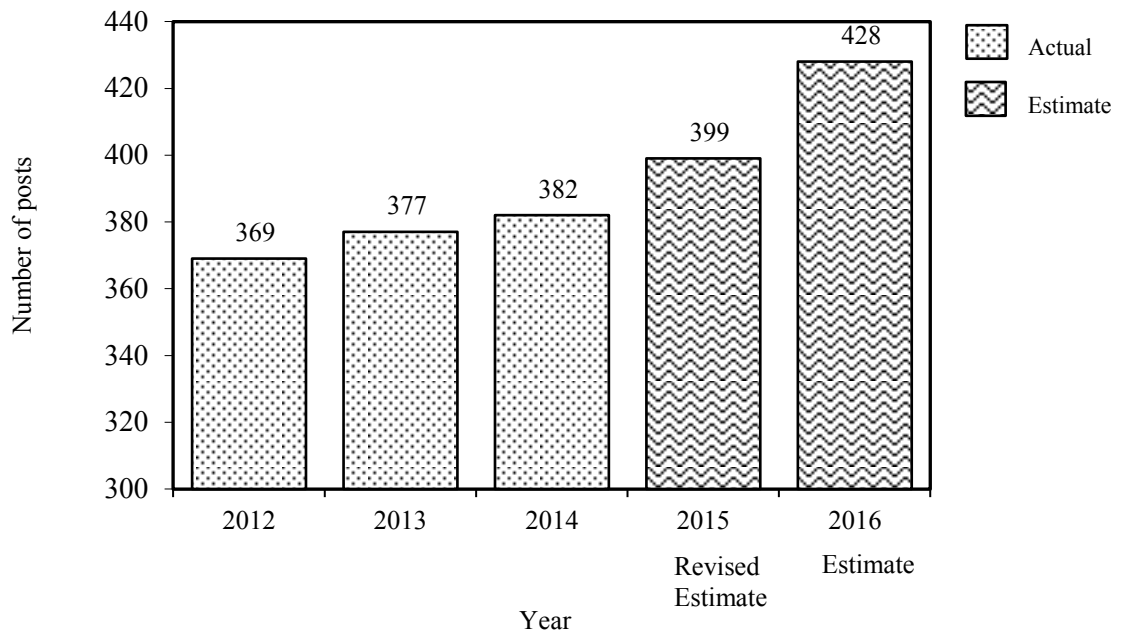
*Allocation of provision to programmes (2015-16)*



*Staff by programme (as at 31 March 2016)*



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



**Head 42 — ELECTRICAL AND MECHANICAL SERVICES DEPARTMENT**

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| Sub-head<br>(Code)         | Actual<br>expenditure<br>2013-14                          | Approved<br>estimate<br>2014-15 | Revised<br>estimate<br>2014-15 | <b>Estimate<br/>2015-16</b> |                       |
|----------------------------|---|---------------------------------|--------------------------------|-----------------------------|-----------------------|
|                            | \$'000  | \$'000                          | \$'000                         | <b>\$'000</b>               |                       |
| <b>Operating Account</b>   |   |                                 |                                |                             |                       |
| Recurrent                  |   |                                 |                                |                             |                       |
| 000                        | Operational expenses .....                                | 396,647                         | 424,503                        | 427,050                     | <b>447,437</b>        |
|                            | Total, Recurrent .....                                    | 396,647                         | 424,503                        | 427,050                     | <b>447,437</b>        |
|                            | Total, Operating Account .....                            | 396,647                         | 424,503                        | 427,050                     | <b>447,437</b>        |
| <hr/>                      |   |                                 |                                |                             |                       |
| <b>Capital Account</b>     |   |                                 |                                |                             |                       |
| Plant, Equipment and Works |   |                                 |                                |                             |                       |
| 661                        | Minor plant, vehicles and equipment (block<br>vote) ..... | 90,412                          | 84,300                         | 78,976                      | <b>15,000</b>         |
|                            | Plant, vehicles and equipment .....                       | 15,889                          | 4,100                          | 4,086                       | <b>—</b>              |
|                            | Total, Plant, Equipment and Works .....                   | 106,301                         | 88,400                         | 83,062                      | <b>15,000</b>         |
|                            | Total, Capital Account .....                              | 106,301                         | 88,400                         | 83,062                      | <b>15,000</b>         |
| <hr/>                      |   |                                 |                                |                             |                       |
|                            | Total Expenditure .....                                   | 502,948                         | 512,903                        | 510,112                     | <b>462,437</b>        |
|                            |   | <u>502,948</u>                  | <u>512,903</u>                 | <u>510,112</u>              | <u><b>462,437</b></u> |

## Head 42 — ELECTRICAL AND MECHANICAL SERVICES DEPARTMENT

### Details of Expenditure by Subhead

The estimate of the amount required in 2015–16 for the salaries and expenses of the Electrical and Mechanical Services Department is \$462,437,000. This represents a decrease of \$47,675,000 against the revised estimate for 2014–15 and of \$40,511,000 against the actual expenditure in 2013–14.

#### *Operating Account*

##### Recurrent

**2** Provision of \$447,437,000 under *Subhead 000 Operational expenses* is for salaries, allowances and other operating expenses of the Electrical and Mechanical Services Department.

**3** The establishment as at 31 March 2015 will be 399 posts. It is expected that there will be an increase of 29 posts in 2015–16. Subject to certain conditions, the controlling officer may under delegated powers create or delete non-directorate posts during 2015–16, but the notional annual mid-point salary value of all such posts must not exceed \$233,968,000.

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

|  | 2013–14<br>(Actual)<br>(\$'000) | 2014–15<br>(Original)<br>(\$'000) | 2014–15<br>(Revised)<br>(\$'000) | <b>2015–16<br/>(Estimate)<br/>(\$'000)</b> |
|--|---------------------------------|-----------------------------------|----------------------------------|--|
| Personal Emoluments                              |                                 |                                   |                                  |  |
| - Salaries.....                                  | 236,351                         | 258,448                           | 261,178                          | <b>290,615</b>                             |
| - Allowances.....                                | 2,745                           | 3,072                             | 2,824                            | <b>2,951</b>                               |
| - Job-related allowances.....                    | 1                               | 3                                 | 1                                | <b>1</b>                                   |
| Personnel Related Expenses                       |                                 |                                   |                                  |  |
| - Mandatory Provident Fund contribution.....     | 416                             | 352                               | 500                              | <b>286</b>                                 |
| - Civil Service Provident Fund contribution..... | 4,713                           | 5,566                             | 5,695                            | <b>7,081</b>                               |
| Departmental Expenses                            |                                 |                                   |                                  |  |
| - General departmental expenses .....            | 152,421                         | 157,062                           | 156,852                          | <b>146,503</b>                             |
|  | 396,647                         | 424,503                           | 427,050                          | <b>447,437</b>                             |

#### *Capital Account*

##### Plant, Equipment and Works

**5** Provision of \$15,000,000 under *Subhead 661 Minor plant, vehicles and equipment (block vote)* represents a decrease of \$63,976,000 (81%) against the revised estimate for 2014–15. This is mainly due to reduced requirements for modernisation of existing lifts of government bureaux and departments.