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# **The Hong Kong Voluntary Energy Efficiency Labelling Scheme for**

## **Non-integrated Type Compact Fluorescent Lamps January 2023**

Energy Efficiency  **EMSD**

Electrical and Mechanical Services Department  
3 Kai Shing Street, Kowloon, Hong Kong  
Homepage: <http://www.emsd.gov.hk>

## Preface

The Hong Kong Voluntary Energy Efficiency Labelling Scheme for “Compact Fluorescent Lamp (CFL)” was revised to The Hong Kong Voluntary Energy Efficiency Labelling Scheme for “Non-integrated Type Compact Fluorescent Lamp” (“the Scheme”) since November 2009. Basically, it covers non-integrated type CFLs which are not regulated under the Energy Efficiency (Labelling of Products) Ordinance (“the Ordinance”).

For the scope of the non-integrated type CFLs to be covered by the Scheme, please refer to section 3 of the Scheme for details.

The importers or local manufacturers of the non-integrated type CFLs are welcome and encouraged to participate in the Scheme if their products fall into the classification of the Scheme.

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## **1. Purpose**

- 1.1 This set of document is intended to give a general description to the Hong Kong Voluntary Energy Efficiency Labelling Scheme for Non-integrated Type Compact Fluorescent Lamps. For CFLs regulated under the Energy Efficiency (Labelling of Products) Ordinance, please refer to the Ordinance.

## **2. Background**

- 2.1 The Energy Efficiency Labelling Scheme (EELS) is an energy conservation initiative that the Government of the Hong Kong Special Administrative Region has adopted. Under the EELS, some common types of household appliances/ gas appliances and office equipment will incorporate an energy label that serves to inform consumers of the product's energy consumption and efficiency. Consumers should then be able to take those factors into account in making their purchasing decision.
- 2.2 The concept of EELS has been implemented in several forms and in different stages of development in many countries. The EELS generally aims to achieve:
- greater public awareness of energy conservation and environmental improvement needs;
  - provision of readily available, pre-purchase information on energy consumption and efficiency data to enable ordinary consumers to select more energy efficient products;
  - stimulation to the manufactures/market for phasing out less energy efficient models; and
  - motivation of the actual energy savings behaviours and environmental improvements.
- 2.3 Hong Kong aims at achieving the above objectives. At present, the Hong Kong Voluntary Energy Efficiency Labelling Scheme covers 22 types of household appliances/ gas appliances and office equipment. Amongst them, 13 types are household appliances, 7 types are office equipment and 2 types are gas appliances.

### 3. Scope

3.1 The Scheme will only apply to the manufacturers and importers (i.e. local agents, retailers and the related parties) who are interested to or have participated in the Scheme.

3.2 The Scheme commenced on 29 December 1998. It is further revised on 1 January 2023. The existing and newly registered labels will remain valid till 31 December 2025. By then, renewal of the application may be required subject to the review of the Scheme.

Remarks: The scheme will be under review with respect to the latest international/national standards.

3.3 The provisions of this scheme shall apply to non-integrated type CFLs which is electrically connected to permanently wired external ballast and is intended for general lighting purposes and having the following characteristics:

- (a) those with a rated voltage of 220 volts;
- (b) those with a rated input current frequency of 50 Hz.; and
- (c) those with a rated lamp wattage up to 60 watts.

3.4 The Scheme shall apply to non-integrated type CFLs designed for multi-level and/or dimming operation.

3.5 Non-integrated type CFLs operated with cold cathode and reflector type lamps are excluded from this scheme.

3.6 The scope of the Scheme covers all new non-integrated type CFLs imported to or manufactured in Hong Kong with effect from the date that is declared by the participant but does not cover second-hand products, products already in use, under trans-shipment or manufactured for export, etc.

3.7 The Scheme is operated as a 'Recognition Type' labelling system. All participating non-integrated type CFLs will be recognised and registered under this scheme provided that they have met the energy factor and performance requirements as stipulated in the Scheme.

## 4. Definitions

Unless otherwise specified, the following definitions shall apply throughout this document:

ageing period	means the time required for the initial burn-in of the lamp.
<i>authority</i>	means the Electrical & Mechanical Services Department (EMSD), the Government of the Hong Kong Special Administrative Region
ballast	means a device used with an electric-discharge lamp to obtain the necessary circuit conditions (voltage, current, and wave form) for starting and operating.
CFL adaptor	means a complete package that consists of a CFL and a lamp holder with an integrated ballast of which both are manufactured by the same manufacturer.
CIE	means International Commission on Illumination.
compact fluorescent lamps (CFLs)	means any type of small diameter fluorescent lamp which has a single cap with or without built-in control gear for operation.
control gear	means all necessary electrical elements that are required for starting and maintaining stable operation of the lamp.
<i>Director</i>	means the Director of Electrical & Mechanical Services Department.
<i>Government</i>	means the Government of the Hong Kong Special Administrative Region.
IEC	means International Electrotechnical Commission.
inspecting officer	means the officer authorized by the Director to carry out inspection on non-integrated type CFLs.
integrated type CFL with built-in control	means a single integrated assembly of lamp, ballast, and lamp gear base or a CFL adaptor that fits into a standard incandescent lamp socket.
label	means the energy label as described in Section 8 of this document.

lumen maintenance	means the luminous flux of a lamp at a given time in the rated average life of a lamp, including the initial operating hours, divided by the initial value of the luminous flux of the lamp and expressed as a percentage of the initial luminous flux.
luminous efficacy (lm/W)	means a ratio of luminous flux emitted by a lamp to the electrical power consumed by the lamp.
luminous flux (lm)	means a quantitative measure of light emitted by a light source. The quantity is derived from radiant flux (power in watts) by evaluating the radiation in accordance with the spectral sensitivity of the standard eye as described by the CIE Standard Photometric Observer.
mains electricity	means the electricity that is supplied in Hong Kong at a voltage of 380/220V with a frequency of 50 Hz
non-integrated type CFL <u>without</u> built-in control gear	means a separate lamp that is electrically connected to a permanently-wired external ballast.
participant	means the manufacturers, importers or the retailers of non-integrated type CFLs participating in the Scheme.
rated average lamp life	means the expected time at which 50% of any large number of lamps reach the end of their individual life declared by the manufacturer or responsible distributor for the lamp.
rated frequency	means the frequency marked on the lamp's nameplate or declared as such by the manufacturer or responsible distributor for the lamp.
rated voltage	means the voltage marked on the lamp's nameplate.
rated wattage	means the wattage marked on the lamp's nameplate.
recognized laboratory	means a laboratory that complies with the requirements as stated in Section 9 of this document and is acceptable to the Authority for carrying out tests and issuing test reports on non-integrated type CFLs.



reference ballast	means special ballast that at its rated frequency it has a stable voltage/current ratio which is relatively uninfluenced by variations in current, temperature and magnetic surroundings.
the Scheme	means the Hong Kong Voluntary Energy Efficiency Labelling Scheme for Non-integrated Type Compact Fluorescent Lamps.

## 5. Test Standards

### General

- 5.1 All test standards and specifications specified in this document are only related to checking compliance with the energy efficiency and general performance requirements. It is not the intention of this document to detail out the test standards and requirements for checking compliance with the Electrical Products (Safety) Regulation of the Hong Kong Special Administrative Region. The participant should conduct appropriate tests, where necessary, in addition to those specified in this document in order to obtain Certificates of Safety Compliance for his non-integrated type CFLs.

### Test Standards - Safety Requirements

- 5.2 The testing standard for checking compliance with the safety requirements are based on the international standard IEC 61199, single-capped Fluorescent Lamps – Safety Specifications. For detailed requirements and procedural descriptions one should refer to the respective standards.
- 5.3 To the extent that definitions in the IEC standards do not conflict with the definitions of this document, the definitions in the aforesaid standards shall be included.

### Test Standards - Technical Performances

- 5.4 The efficacy value (lumens/watt) is the major criterion that determines whether a lamp can meet the specific energy efficiency requirement. Therefore, it is important that a common base is used to validate the information submitted by manufacturers from different countries for their products.

- 5.5 The testing standards for measurement of electrical and photometric performances are based on the following international standards. For detailed requirements and procedural descriptions one should refer to the respective standards.
- (a) IEC60969, Self-ballasted Lamps for General Lighting Services – Performance Requirements;
  - (b) IEC60901, Single-capped Fluorescent Lamps – Performance Specifications; and
  - (c) CIE84, The Measurement of Luminous Flux.
- 5.6 To the extent that definitions in the IEC and CIE standards do not conflict with the definitions of this document, the definitions in the aforesaid standards shall be included.

#### **Test Conditions**

- 5.7 The test conditions for non-integrated type CFLs without built-in control gear shall be as follows –
- (a) the selection, seasoning and stabilization of test lamps, and the test conditions shall be as described in Section 1 and Annex B of IEC 60901; and
  - (b) test lamps shall be tested either in base-up or horizontal mounted position.

#### **Measurement of Lumen Output of Test Lamp**

- 5.8 The lamp lumen output at the test conditions shall be measured in accordance with the requirements of CIE 84.

#### **Measurement of Electrical Characteristics of Test Lamp**

- 5.9 The electrical characteristics measurement and procedures shall be as described in Section 1 and Annex B of IEC 60901.

#### **Measurement of Lumen Maintenance and Lamp Life**

- 5.10 The lumen maintenance and lamp life at the test conditions shall be measured in accordance with Section 2 and Appendix A of IEC 60969.

### Determination of Lamp Luminous Efficacy

- 5.11 Lamp luminous efficacy shall be determined by computing the ratio of the measured lamp lumen output and lamp electrical power input at equilibrium for the test conditions. The resulting quotient shall be rounded off to the nearest unit of a lumen per watt.

### Number of Samples to be Tested

- 5.12 For submission of product information of a non-integrated type CFL model under clause 10.4 of the Scheme, a test report on one sample of the model shall be submitted.

## 6. Energy Efficiency Standards

### Specific Energy Efficiency Requirements

- 6.1 The luminous efficacy for non-integrated type CFLs should be equal to or greater than the corresponding minimum allowable value as indicated in Table 1 below.

**Table 1: Minimum Allowable Luminous Efficacy for Non-integrated Type CFLs without Built-in Control Gear**

CFLs Rated Lamp Wattage (Lw)	Minimum Allowable Luminous Efficacy (lumens/W)
$Lw \leq 10 \text{ W}$	50
$10\text{W} < Lw \leq 30 \text{ W}$	65
$Lw > 30 \text{ W}$	75

- 6.2 The aforesaid lamp luminous efficacy refers to values measured at the end of the 100 hours ageing period.
- 6.3 Unless otherwise indicated, the requirements set forth in this scheme shall apply to non-dimmable non-integrated type CFLs, and also to multi-level and/or dimmable non-integrated type CFLs that are operating at maximum power.
- 6.4 The luminous efficacy for a non-integrated type CFL without built-in control gear excludes the lamp control gear loss.

## **Safety Requirements**

- 6.5 In addition to the energy efficiency performance requirements, all dehumidifiers shall comply with the Electrical Products (Safety) Regulation, Chapter 406G of the Laws of Hong Kong, and the safety standards specified under the Regulation, and all other legislation concerning the safety of the non-integrated type CFLs, e.g. the Gas Safety Ordinance and its subsidiary legislations, as appropriate

## **7. Performance Requirements**

- 7.1 In addition to the specific energy efficiency requirements, the non-integrated type CFLs are also needed to meet the following performance requirements:
- (a) all materials and workmanship shall comply with the Electrical Products (Safety) Regulation of the HKSAR and appropriate IEC Safety Standards;
  - (b) the rated average lamp life shall not be less than 6,000 hours; and
  - (c) lumen maintenance at 2,000 hours shall not be less than 78%.

## **8. Energy Label**

- 8.1 The specification of the energy label for Non-integrated Type CFLs is shown in Annex 1. After a reference number has been assigned to a product model in the name of a specified person and included in the Director's record, the specified person shall produce the energy label for his/her products of the listed model showing the information in strict accordance with the requirements in Annex 1.
- 8.2 The labels should be printed on white-coloured self-adhesive sheet material and should have colour schemes and dimensions as shown in Annex 1. If the dimensions of the energy label as shown in Annex 1 cannot fit into the product packaging, then the second largest energy label (in the descending order of 90%, 80% and 70% (by length) of the largest energy label) is to be chosen.

- 8.3 The energy label shall be self-adhesive and shall be cut to the outline shown in Annex 1 or otherwise approved by the Director and affixed to the product packaging at a prominent location. A trim or die cut margin of up to 2 mm around the energy label is acceptable. The participant should ensure that the verification label appears on every registered product on display or sale and should be easily visible.
- 8.4 The paper or the material that is approved by the Director used for the energy label shall be durable with good wear and tear characteristics. It should stick tightly on the product package.
- 8.5 The energy label should be printed in both Chinese and English. Soft copy of the energy label can be obtained from Energy Efficiency Office, EMSD.

## 9. Testing Facilities, Laboratories & Accreditation Bodies

- 9.1 The testing shall be carried out either by independent test institutes or by the manufacturers or by the importers themselves at their own test facilities. The Authority will accept the results and certificates issued by the test laboratory, which fulfils one of the following criteria as specified in clauses 9.2, 9.3 or 9.4.
- 9.2 The laboratory is accredited by the Hong Kong Accreditation Service (HKAS) for the relevant test under the Hong Kong Laboratory Accreditation Scheme (HOKLAS) or a scheme with which HOKLAS has concluded a mutual recognition agreement (MRA) <sup>#</sup>, and the results are issued in a test report or certificate bearing the accreditation mark.

<sup>#</sup> *HKAS has concluded mutual recognition arrangements with overseas accreditation bodies for testing laboratory accreditation. The list of mutual recognition arrangement partners may change from time to time and the up-to-date list is available from the HKAS website of [www.info.gov.hk/itc/hkas](http://www.info.gov.hk/itc/hkas). Partners to these arrangements recognise the accreditations granted by one another as equivalent.*

- 9.3 The Authority will also consider the following –
- (a) Self-certification by original manufacturers that the operations of their in-house laboratories satisfy the requirements of ISO/IEC 17025; and
  - (b) The manufacturers are currently operating according to a recognized international quality system (such as ISO 9001); and

- (c) The manufacturer's in-house laboratories had successfully carried out tests on CFLs and where these tests had been evaluated and certified by third party internationally recognised certification organisations.

9.4 The Authority will also consider the test results issued by a laboratory which is accredited by HKAS (or is under accreditation scheme operated by a laboratory accreditation body with which HKAS has concluded MRA) for the relevant tests on electrical and mechanical appliances other than testing based on the technical standards stipulated in this scheme; if the laboratory can demonstrate their capability of carrying out tests on CFLs based on IEC 60969, IEC 60901, CIE 84.

#### **Laboratory Accreditation**

9.5 The Government takes cognizance of the need to ensure acceptable and compatible quality standards of testing laboratories, and considers that they need to be periodically accredited by some independent bodies.

9.6 The criteria of accreditation should be based on ISO/IEC 17025 and the certification body should operate in accordance with ISO/IEC 17011.

9.7 The Authority will recognize the accreditation granted by the HKAS under the HOKLAS and by overseas accreditation bodies with which HKAS has concluded MRA. For the accreditation by other certification bodies, the Authority will consider on a case-by-case basis.

#### **Energy Efficiency Certification Service**

9.8. An increasing number of countries now accept, as proof of product conformance, energy efficiency certification services provided by the organisation that has been accredited as a certification body. In accordance with this trend, the Authority will also consider test results that have been evaluated and certified according to the respective ISO or IEC standards of the Scheme by reputable certification organisations.

## 10. Registration and Participation

### Registration Procedures

10.1 All manufacturers, importers and the other parties involved in the non-integrated type CFLs distribution network are welcome and encouraged to participate in the Scheme. The Authority will send invitation to those known manufacturers and importers. However, no matter whether invited or not, any interested parties may submit their applications for the registration.

10.2 The proforma letter of invitation is shown in Annex 2.

10.3 Applicant should submit formal application to

*Chief Engineer/Energy Efficiency A  
Energy Efficiency Office  
Electrical and Mechanical Services Department  
3 Kai Shing Street, Kowloon  
Hong Kong*

by means of an application letter through mail, facsimile or electronic mail. In order to ensure effective implementation of the Scheme, the applicant must commit himself to fully comply with the duties, responsibilities and obligations set out in the Scheme. The proforma letter of application as shown in Annex 3 details the aforesaid obligations and should be used for application. To facilitate the application process, the application form can be downloaded from EMSD website.

### Information/Documents to be Submitted for Registration

10.4 Each make and model of a non-integrated type CFL participating in the Scheme should be provided with a test report issued by a recognized laboratory. The test report should contain energy efficiency test and performance test results. The details of the technical information to be submitted together with the application are listed as follows: -

a) Information on the company

Name, Address, Telephone number, Fax number, E-mail address, Contact person, Importer, Distributor, etc.

b) Product to apply for participating in the Scheme:

Name of products, types, brand names, models, countries of origin

- c) The parties which will be responsible for making and fixing the Energy Labels;
- d) Commencement date to affix energy label on non-integrated type CFL packaging  
Year\_\_\_\_\_, Month\_\_\_\_\_
- e) Detailed reports for the following tests
  - lamp lumen output measurement;
  - lamp input power measurement
  - lamp lumen maintenance; and
  - lamp average life
- f) Technical Data:
  - lamp luminous efficacy,
  - lamp lumen maintenance;
  - rated lamp average life; and
  - others.
- g) Certificate of Safety Compliance prescribed by the “Electrical Products (Safety) Regulation of the Hong Kong Special Administrative Region”.

The above list of information can also be found in Annex 4, Information to be submitted to Energy Efficiency Office.

- 10.5 Company's name and chop should be stamped on all the documents provided. All photocopy test reports submitted to the Authority shall be certified true copy by appropriate organization.

#### **Acceptance of Registration**

- 10.6 On receipt of the application, the Authority will process the application and verify whether the non-integrated type CFL meets the energy efficiency and performance requirements based on the submitted data. The accuracy of the submitted data, their inconsistencies and non-compliance will be dealt with in accordance with Section 12.



- 10.7 If the application is accepted, the participants will be notified of the result in writing within 17 working days. The participants will then be allowed to affix the energy label onto the 'registered' non-integrated type CFLs packaging. Both manufacturer and importer of the registered non-integrated type CFLs should ensure that the energy labels are correctly printed and affixed on the non-integrated type CFLs packaging in accordance with Section 8. The proforma letter of acceptance is shown in Annex 5.
- 10.8 If the application is rejected, the notification letter (proforma letter of rejection as shown in Annex 6) will also be given within 17 working days upon receipt of all necessary information requested.
- 10.9 The flow chart for registration is shown in Annex 7

#### **Participant's Duties, Responsibilities and Obligations**

- 10.10 The participant is obliged to:-
- a) submit application and information including test results in accordance with format & procedures set out in clauses 10.4 and 10.5;
  - b) conduct tests via recognized laboratories and to comply with the specified test methodology and classification scheme;
  - c) produce and affix energy labels at his own costs;
  - d) fully inform other sales agents in his distribution network once the particular make and model of a non-integrated type CFL is registered under the Scheme;
  - e) allow random/ad-hoc inspection to be conducted by persons authorized by the Authority on registered non-integrated type CFL at his premises;
  - f) conduct re-test(s) at his own costs at some recognized laboratories, if non-compliance is found on the appliance. The result of re-test(s) shall reach the Authority within the prescribed period of time specified by the Authority; normally three months;
  - g) inform the Authority of any change in the technical information and data that were previously submitted to the Authority together with the application letter;

- h) accept the fact that if the registered non-integrated type CFL fails to perform in accordance with the required standard performance as given in Sections 6 & 7 and this cannot be readily rectified, the Authority may order it be de-registered from the Scheme; and
- i) remove all labels from the de-registered non-integrated type CFLs immediately.

10.11 The details of the registered non-integrated type CFLs under the Scheme will be kept in a register list maintained by the Authority. The registration records will be regularly uploaded and maintained in the EMSD Internet for public and interested parties for browsing and reference.

### **Termination**

10.12 Under circumstances of poor performance of the participant such as –

- (a) (repeated) failure to fulfil the obligations set out under clause 10.10; or
- (b) in any other case where the Director is of the opinion that registration of the particular non-integrated CFL is contrary to the public interest,

the Authority may de-register the concerned non-integrated CFLs from the Scheme with immediate effect by giving the participant a notice in writing. Once the non-integrated CFL is de-registered, energy label is not allowed to fix on it.

The concerned non-integrated type CFL could be de-registered even when there is no legal action taken under either the Trade Description Ordinance (Cap. 362) or the Copyright Ordinance (Cap. 528).

10.13 Participant who decides to discontinue participating in the Scheme or to withdraw any registered model from the registered non-integrated type CFLs list shall give at least three months' advance notice to the Authority.

## **11. Legal Provisions**

11.1 The Scheme is a voluntary scheme. However, a participant who abuses the Scheme by giving false information may contravene provisions of the Trade Description Ordinance (Cap. 362).

- 11.2 No one could take advantage of the scheme by using the energy label on his non-integrated type CFLs without authorization of the Authority as that shall constitute an infringement of copyright under the Copyright Ordinance (Cap. 528).

## 12. Compliance, Monitoring and Inspection

### Purpose

- 12.1 To uphold the credibility of the Scheme and to continue maintaining the confidence of the consumers, compliance check on energy labels on those non-integrated type CFLs participating in the Scheme are needed. Also, to avoid the non-participating parties from taking advantage of the Scheme by using unauthorized labels, suitable form of inspection shall be conducted on those non-integrated type CFLs which have not been registered under the Scheme.

### Scope

- 12.2 The scope of inspection includes sample checking and testing of the following items:-
- (a) whether the energy label is affixed on the registered non-integrated type CFLs packaging;
  - (b) whether the energy label on the registered non-integrated type CFLs packaging is affixed to a prominent position;
  - (c) whether the energy label being displayed is of correct format in accordance with clause 8.2;
  - (d) whether the registered non-integrated CFL complies with the energy efficiency and the performance requirements;
  - (e) whether the data submitted by the participants are correct by random re-testing; and
  - (f) whether the unregistered non-integrated type CFLs display unauthorized energy labels.
- 12.3 The participants will be requested to take immediate remedial action and report of follow-up action taken if non-compliance is found on their non-integrated type CFLs.

- 12.4 For a registered non-integrated type CFL carrying energy label but found not meeting the requirements stipulated in Section 6 & Section 7, the participant will be requested to repeat the performance tests specified in accordance with the test standards stipulated in Section 5 by an accredited testing laboratory.
- 12.5 If non-compliance is confirmed and no remedial action is to be taken by the applicant, the Authority may order it be de-registered from the Scheme. Failure to remove energy labels from the de-registered appliances after the Director has withheld his authorization for using such labels may contravene the relevant ordinances.

### **Inspecting Officers**

- 12.6 The Authority will authorize inspecting officers to carry out compliance monitoring and inspection on non-integrated type CFLs. The officers will carry proper identification cards which will be produced upon request during their inspection operations. However, the officer will not inform the participants in advance of their intended inspection operation.
- 12.7 It is the participants' obligation to allow the inspecting officers to gain access to their premises to carry out inspection.

### **Mode of Inspection**

- 12.8 Inspections will be carried out on registered non-integrated type CFLs under the Scheme on random basis. Based on the record of the registration, random inspection programmes will be developed.
- 12.9 In addition to the random inspections, the inspecting officers will carry out ad-hoc inspections in response to complaints. The items to be inspected in such a case will depend upon the nature of complaint and may include all types of inspection as stated in clause 12.2.
- 12.10 Inspections will normally be carried at the retail outlets and showrooms of non-integrated type CFLs. Where necessary, inspection will also be done at warehouses.
- 12.11 The inspection results will be properly recorded for future analysis as well as on evaluation of the effectiveness of the Scheme.

## **13. Complaints and Appeal**

- 13.1 The Authority will be responsible for dealing with the complaints from participant and other parties against matters related to the Scheme.

### **Complaints Handling Procedures**

- 13.2 The Director shall ensure that complaints are properly recorded and handled without undue delay.
- 13.3 The Authority shall carry out preliminary investigation on complaints and reply to the complainants within a reasonable time. For complaints that require site inspection and laboratory test, the complainant shall be notified through an interim reply.
- 13.4 The Authority shall inform the complainant of the results or decisions made on the complaint.

### **Appeal Procedures**

- 13.5 A participant who feels aggrieved by the decision given or action taken by the Authority according to section 13 may appeal to the Director in writing stating the reason for the appeal.
- 13.6 The Director may decide to suspend the decision or action given by the Authority from the day on which the appeal is made until such appeal is disposed of, withdrawn or abandoned unless such suspension would, in the opinion of the Director, be contrary to public interest.
- 13.7 The Director may by notice to the appellant require that appellant to attend meeting with him or his representative, provide documents and give evidence relevant to the appeal.
- 13.8 The Director shall notify the appellant of his decision and the reasons for it. The decision will be final and binding.

## **14. Maintenance of Scheme**

- 14.1 To ensure that the Scheme can continue to operate effectively and efficiently after its introduction, a proper system of maintenance is needed.

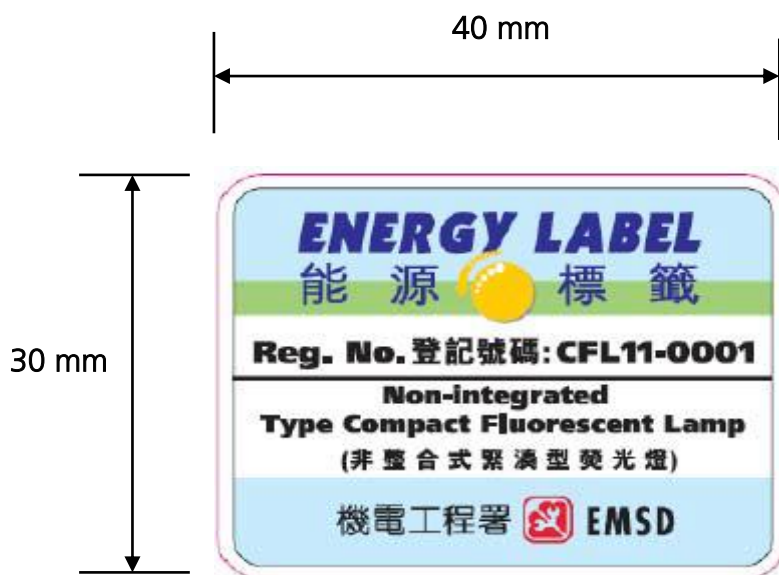
14.2 The maintenance system consists essentially of -

- (a) Continuous updating of the following relevant information of the participants in the Scheme-
  - i. Details of the registered non-integrated type CFLs such as registration number, date of registration or de-registration if it occurs, energy efficiency data, performance data, make, model and other related information; and
  - ii. Details of the registered importers, manufacturers, local agents, etc.; in the distribution network such as address, date of registration or de-registration if it occurs, etc.
- (b) Periodic review of the test methodology, and procedures for application of registration and compliance monitoring, etc., to bring them in line with the latest needs of the manufacturers, importers and retailers, etc.
- (c) Continuous evaluation of the effectiveness of the Scheme and assessment of what changes are necessary.

## 15. Future Development

- 15.1 It is hoped that following the implementation of the Scheme, the market will phase out models of low efficiency products and public awareness of using energy efficient products will be much improved.
- 15.2 To further facilitate the public in choosing energy efficient appliances and raise public awareness on energy saving, the Government has introduced a mandatory Energy Efficiency Labelling Scheme through the Energy Efficiency (Labelling of Products) Ordinance.
- 15.3 Under the mandatory EELS, energy labels are required to be shown on prescribed products for supply in Hong Kong to inform consumers of their energy efficiency performance. Eight types of prescribed products covered in the mandatory EELS are room air conditioners, refrigerating appliances, compact fluorescent lamps, washing machines, dehumidifiers, televisions, storage type electric water heaters and induction cookers.

**The Hong Kong Voluntary Energy Efficiency Labelling Scheme**  
**for Non-integrated Type Compact Fluorescent Lamp**  
**Energy Label Format**



(Not to Scale)

The figure of the energy label is shown not to scale.

Soft copy of this label can be obtained from Energy Efficiency Office, Electrical and Mechanical Services Department.

## Proforma Letter of Invitation

Our ref. ( ) EMSD/EEO/LB/07

Your ref.

Tel.

Fax.

Date

[ Name and Address of  
Manufacturers/Importers/Agents ]

Dear Sir/Madam,

### Invitation of Application for Registration to Participate in Voluntary Energy Efficiency Labelling Scheme for Non-integrated Type Compact Fluorescent Lamps

Having gone through the necessary consultations and duly considered the views from various concerned parties, the government has decided to introduce a voluntary energy efficiency labelling scheme for non-integrated type compact fluorescent lamps to Hong Kong with effect from (\_\_\_\_\_). The details of the Scheme<sup>①</sup> have been finalized and I enclose herewith a guide of the Scheme for your reference.

Being one of the major non-integrated type compact fluorescent lamps manufacturers / importers / agents<sup>②</sup> in Hong Kong, you are invited to participate in the Scheme so as to take part in promoting public awareness in energy conservation and environmental improvement to Hong Kong. If you are interested to participate in the scheme, please apply in accordance with the proforma letter of application (Annex 3) and submit details including technical information in accordance with the attached Annex 4 to the 'Chief Engineer / Energy Efficiency A' at the following address.

Energy Efficiency Office  
Electrical and Mechanical Services Department  
3 Kai Shing Street, Kowloon  
Hong Kong

Please be reminded to submit accurate test data to support your application. Under this Scheme, routine compliance monitoring and checking will be performed and if a registered dehumidifier is found to be non-compliant, we may consider deregistering the non-integrated type compact fluorescent lamps from the Scheme.

Should you need further clarification or information, you are most welcome to contact the undersigned or Mr \_\_\_\_\_, at the telephone number \_\_\_\_\_.

Yours faithfully,

for Director of Electrical & Mechanical Services

(Note : <sup>①</sup> 'Scheme' means 'The Voluntary Energy Efficiency Labelling Scheme for non-integrated type compact fluorescent lamps '

<sup>②</sup> delete as appropriate)



## **Proforma Letter of Application**

Your ref. ( ) EMSD/EEO/LB/07

Our ref.

Tel.

Date

Chief Engineer/Energy Efficiency A  
Electrical & Mechanical Services Department  
3 Kai Shing Street, Kowloon  
Hong Kong

Dear Sir/Madam,

### **Application for Registration in The Hong Kong Voluntary Energy Efficiency Labelling Scheme for Non-integrated Type Compact Fluorescent Lamps**

Our company is the (manufacturer/importer/agent\*) of \_\_\_\_\_ in Hong Kong. We support the introduction the labelling scheme to Hong Kong and would like to be one of the participants in the Scheme to promote energy efficiency.

I understand fully the obligations and duties stated in the Scheme and will comply with all relevant requirements, in particular those specified below:

- i) conduct tests via recognized laboratories and to comply with the specified test standards;
- ii) produce and affix specified labels at my own costs;
- iii) allow random/ad-hoc inspection to be conducted by persons authorized by the issuing Authority on registered dehumidifier at my premises;
- iv) conduct re-test(s) at my own costs at some recognized laboratories, if the results of inspection suggest inaccurate energy label information being displayed. The result of re-test(s) shall reach the Authority within the prescribed period time specified by the Authority;
- v) inform the Authority of any change in the technical information and data that were previously submitted to the Authority together with the application letter; and
- vi) accept the fact that if non-integrated type compact fluorescent lamp fails to perform in accordance with the required energy efficiency standards and performance as given in Section 6 and this cannot be readily rectified, the Authority may order it be de-registered from the Scheme.

The details of information of those non-integrated type compact fluorescent lamps which we intend to register with the Authority are shown in the attached document (Annex 4), and are submitted herewith for your vetting.

Yours faithfully,

(Manufacturer/Importer/Agent's Name and Company Chop)

\* *delete as appropriate*

## Information to be submitted to Energy Efficiency Office

1. Information on the Company:  
Name, Address, Telephone number, Fax, Email address, Contact person, Importer, Distributor, etc.
2. Product to apply for participating in the Scheme:  
Name of products, types, make, model references, countries of origin
3. Parties will be responsible for making and fixing the Energy Label.
4. Commencement date to affix Energy Labels on non-integrated type CFLs packaging  
Year \_\_\_\_\_, Month \_\_\_\_\_
5. Detailed Reports for the following tests:
  - (a) lamp lumen output measurement;
  - (b) lamp input power measurement;
  - (c) lamp lumen maintenance; and
  - (d) lamp average life.
6. Technical Data:
  - (a) lamp luminous efficacy;
  - (b) lamp lumen maintenance;
  - (c) rated average lamp life; and
  - (d) others.
7. Certificate of Safety Compliance prescribed by the Electrical Products (Safety) Regulation of the Hong Kong Special Administrative Region for the concerned non-integrated type CFLs in the application.

**Note:** *Company's name and chop should be stamped on the all documents provided.  
All test reports submitted to the office should be certified true copy by appropriate organization.*

## Proforma Letter of Acceptance

Your ref.

Our ref. ( ) EMSD/EEO/LB/07

Tel:

Fax:

Date

[

Name and Address of  
Manufacturers/Importers/Agents

]

Dear Sir/Madam,

### **Acceptance of Application for Registration in The Hong Kong Voluntary Energy Efficiency Labelling Scheme for Non-integrated Type Compact Fluorescent Lamps**

With reference to your letter of ref. \_\_\_\_\_ dated \_\_\_\_\_, we are pleased to inform you that your application to participate in the captioned scheme has been accepted.

We enclose herewith the registration certificates of Non-integrated type compact fluorescent lamps registered. The registered Non-integrated type compact fluorescent lamps are as follows:

Brand/Make/Model	Registration No.	Effective date
( )	( )	( )

You are allowed to affix a specified energy label onto each and every Non-integrated type compact fluorescent lamp package registered under the scheme. The contents of the energy label should be based on the information that you have provided in your application ref. \_\_\_\_\_ and dated \_\_\_\_\_.

Should you have any queries regarding the scheme, please contact this office.

Yours faithfully,

for Director of Electrical &amp; Mechanical Services

## Proforma Letter of Rejection

Our ref. ( ) EMSD/EEO/LB/07  
Your ref.

Tel.  
Fax.

Date

「  
Name and Address of  
Manufacturers/Importers/Agents  
」

Dear Sir/Madam,

**Rejection of Application for Registration in  
The Hong Kong Voluntary Energy Efficiency Labelling Scheme for  
Non-integrated Type Compact Fluorescent Lamps**

With reference to your letter ref. \_\_\_\_\_ dated \_\_\_\_\_, We regret to inform you that your application for registration to participate in the Scheme has not been accepted for the following reasons:-

1. \_\_\_\_\_,
2. \_\_\_\_\_, etc.

You are most welcome to submit new application again in future, when you have the necessary documents / information to support your application.

Yours faithfully,

for Director of Electrical & Mechanical Services

**The Hong Kong Voluntary Energy Efficiency Labelling Scheme**  
**for Non-integrated Type Compact Fluorescent Lamps**  
**Flow Chart of Registration**

