
The Hong Kong Voluntary Energy Efficiency Labelling Scheme for

Televisions

March 2011

Energy Efficiency  **EMSD**

Electrical and Mechanical Services Department

3 Kai Shing Street, Kowloon, Hong Kong

Homepage: <http://www.emsd.gov.hk>

CONTENTS

Section Title	Page
1. PURPOSE	1
2. BACKGROUND	1
3. SCOPE	2
4. DEFINITIONS	2
5. TECHNICAL STANDARDS	4
6. TEST METHODS	6
7. ENERGY LABEL	7
8. TESTING FACILITIES, LABORATORIES AND ACCREDITATION BODIES	8
9. REGISTRATION AND PARTICIPATION	9
10. LEGAL PROVISIONS	12
11. COMPLIANCE MONITORING AND INSPECTION	12
12. COMPLAINTS AND APPEAL	14
13. MAINTENANCE OF SCHEME	14
14. FUTURE DEVELOPMENT	15

Annexes

1	Energy Label Format
2	Proforma Letter of Invitation
3	Proforma Letter of Application
4	Information to be submitted to Energy Efficiency Office
5	Proforma Letter of Acceptance of Application
6	Proforma Letter of Rejection
7	Flow Chart for Registration

Tables

1	Maximum Allowable Standby Power
2	Converting Energy Efficiency Indices to Energy Efficiency Grades

1. Purpose

This set of document is intended to give a general description on the introduction of the Hong Kong Voluntary Energy Efficiency Labelling Scheme for Televisions.

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 (HKSAR) has adopted. Under the scheme, some common types of appliances 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 and make their purchasing decision.
- 2.2 The concept of EELS has been developed and implemented in several forms and in different stages of development. In some countries, it is a compulsory requirement for certain kinds of appliances to be provided with energy labels before they can be put on the market. The labelling requirements may apply to equipment such as household refrigerators / freezers, washing machines, room coolers, clothes dryers, compact fluorescent lamps, storage water heaters, etc. The EELS generally aims to achieve the following:
- greater public awareness of energy conservation and environmental improvement needs;
 - provision of readily available, pre-purchase information on energy consumption and efficiency data, where applicable, to enable ordinary consumers to select more energy efficient products;
 - stimulation to the manufacturers/market for phasing out less energy efficient models; and
 - actual energy savings and environment improvement.
- 2.3 Hong Kong also aims at achieving the above objectives and the Hong Kong Voluntary EELS now covers eighteen types of household appliances and office equipment. Ten types of which are electrical appliances and seven types of office equipment. There is also one type of gas appliance for domestic gas instantaneous water heaters. The scope of EELS has also been extended to cover petrol passenger cars.

3. Scope

- 3.1 The scheme will only apply to the manufacturers and importers who have participated in the voluntary scheme.
- 3.2 The scheme commenced from 22 December 2003. The revision of the scheme has been implemented from **1 March 2011** and will expire on **31 December 2013** when re-registration is necessary.
- 3.3 The scope of application covers all new registered appliances imported to or manufactured in Hong Kong with effect from the date that is declared by the participants but does not cover second-hand products, products already in existing use, under trans-shipment or manufactured for export, etc.
- 3.4 The scheme will operate as a 'Grading Type' labelling system. All participating appliances will be registered under this scheme provided that they have met the performance requirement specified in the scheme.
- 3.5 Televisions under this labelling scheme include analog and digital televisions, television monitors, television combination units.
- 3.6 Television products with computer connection capability (e.g. computer input port) may qualify under this scheme as long as they are marketed and sold to consumers as televisions (i.e. focusing on television as the primary function). However, products with computer connection capability that are marketed and sold as (i) computer monitors or (ii) dual function televisions and computer monitors are not included in this scheme.

4. Definitions

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

On mode means the television is connected to a power source, produces sound and picture. The power requirement in this mode is typically greater than the power requirement in standby mode.

analog units means units have an NTSC, PAL, or SECAM tuner and may have analog video inputs (e.g. composite video, component video, S-video, RGB).

Authority means the Electrical and Mechanical Services Department, the Government of the Hong Kong Special Administrative Region (HKSAR).

<i>component television unit</i>	means television system composed of two or more separate components (e.g., display device, tuner, and power supply or display device and tuner/power supply) marketed and sold as a television under one model or system designation. The system may have more than one power cord. For purposes of meeting the standby power criteria, the total standby power for the system is considered.
<i>digital units</i>	means units include at least one digital tuner (e.g., DSS, VSB or QAM) or at least one digital video input (e.g., IEEE 1394, DVI, iLink). Products with an analog tuner and both analog and digital inputs should be considered digital units.
<i>Director</i>	means the Director of Electrical and Mechanical Services.
<i>disconnect</i>	means the product has been unplugged from the mains and therefore is disconnected from all external power sources.
<i>Government</i>	means the Government of the Hong Kong Special Administrative Region.
<i>IEC</i>	means the International Electrotechnical Commission.
<i>inspecting officer</i>	means the officer authorized by the Director to carry out inspection on appliances under this scheme.
<i>ISO</i>	means the International Organization for Standardization
<i>label</i>	means the energy label as described in Section 7.
<i>model</i>	means the commercial description of the make, type, and if available and appropriate, variant and version of a television.
<i>Off mode</i>	means an operating condition where the product is still plugged into the mains, but is not providing any "On mode" or "Standby mode" function. This mode is usually engaged by the consumer via a "hard off switch."
<i>participants</i>	means the manufacturers, importers or the dealers of televisions participating in the scheme.
<i>rated frequency</i>	means the frequency shown on the nameplate of the equipment.
<i>rated voltage</i>	means the voltage shown on the nameplate of the equipment.
<i>recognized laboratory</i>	means a laboratory that complies with the requirements as stated in Section 8 and is acceptable to the Authority for carrying out tests and issuing test reports for televisions.
<i>scheme</i>	means the Hong Kong Voluntary Energy Efficiency Labelling Scheme for Televisions.

Standby mode means the product is connected to a power source, produces neither sound nor picture, does not transmit nor receive program information and/or data, and is waiting to be switched to "On mode" by a direct or indirect signal from the consumer, e.g., with the remote control. For the avoidance of doubt, "Off mode" cannot be considered as "Standby" mode.

standby power means the power being used when the product is in "Standby mode"

Television (TV) means an electronic product consisting of a tuner / receiver and a monitor encased in a single housing. The monitor usually relies upon a cathode-ray tube (CRT), liquid crystal display (LCD), plasma display, Light Emitting Diode (LED) display or other display device. The TV is designed to receive and display a television signal delivered by antenna or signal cable.

television monitor means an electronic product intended to display a video signal from an external tuner or other video source such as a VCR or DVD Player on a CRT, LCD, plasma, LED display, or other display device.

television combination unit means a system in which the TV and an additional audio/video device(s) (e.g. VCD/DVD player, Video Recorder, etc.) are combined into a single unit and which meets all of the following criteria: the additional device(s) is included in the television casing; it is not possible to measure the power requirements of the two components separately without removal of the television casing; and the system is connected to the wall outlet through a single power cable.

5. Technical Standards

Energy Efficiency Specifications for Qualifying Products

- 5.1 The maximum allowable average standby power and energy efficiency grading for televisions, television monitors, TV combination units are as shown in Table 1 and Table 2 respectively. Those products listed in Section 3 that meet the criteria below shall qualify for this scheme.

Effective Date

- 5.2 Phase I: The first phase of this specification, Phase I, commenced on 22 December 2003 and terminated after 30 September 2007. Any formal application submitted within the Phase I period should meet the Phase I specification.
- 5.3 Phase II: The second phase of this specification, Phase II, commenced on 1 October 2007 and shall be terminated after 28 February 2011. Any formal application submitted within the Phase II period should meet the Phase II specification.
- 5.4 Illuminated Display Allowance: Under Phase II, manufacturers may add an additional one Watt allowable standby power to the 1-Watt specification for TV/VCR Combination

units, TV/DVD Combination units and TV/VCR/DVD Combination units with an illuminated or backlit display (e.g. clock) or other electronic status indicator.

- 5.5 Illuminated Display Allowance: Under Phase II, which is mentioned in Clause 5.4, should not be applied to Phase III application.
- 5.6 Phase III: The third phase of this specification, Phase III, shall commence on **1 March 2011**. Any formal application submitted in the Phase III should meet the Phase III specification in order to qualify for this scheme.

Table 1: Maximum Allowable Standby Power

Product Category	Standby Power (Watts) Phase I (effective from 22/12/2003)	Standby Power (Watts) Phase II (effective from 1/10/2007)	Standby Power (Watts) Phase III (effective from 1/3/2011)
Televisions	≤ 3	≤ 1	≤ 1
Television monitors	Analog: ≤ 1 Digital: ≤ 3	≤ 1	≤ 1
Component television units	≤ 3	≤ 1	≤ 1
TV/VCR combination units	≤ 6	≤ 1	≤ 1
TV/DVD, TV/VCD, TV/VCR/DVD combination units	≤ 4	≤ 1	≤ 1

Appliance Energy Efficiency Grading

- 5.7 To make the concept of appliance energy efficiency more readily understood by ordinary consumers, appliance energy efficiency grade is introduced by linking the energy efficiency index (percentage) to the five grades as shown in Table 2, with Grade 1 being the most energy efficient and Grade 5 the least.

Table 2: Converting Energy Efficiency Indices to Energy Efficiency Grades

Energy Efficiency Index (EEI)*	Energy Efficiency Grade
$EEI \leq 0.4$	1
$0.4 < EEI \leq 0.64$	2
$0.64 < EEI \leq 1.0$	3
$1.0 < EEI \leq 1.44$	4
$1.44 < EEI$	5

*Remark: The Energy Efficiency Index (EEI) is calculated as $EEI = P / P_{ref} A$, where:

- $P_{ref} A = 20 \text{ Watts} + (A \div 100) \times 4.3224 \text{ Watts/ cm}^2$;
- A is the television visible screen area expressed in cm^2 ;
- P is the on-mode power consumption of the television in Watts measured in accordance with IEC 62087:2008 (Edition 2.0) Clause 11.6 "On (average).mode testing using dynamic broadcast-content video signal".

Safety Requirements

- 5.8 All materials and workmanship of the products 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 legislations concerning the safety of televisions.

6. Test Methods

General

- 6.1 All test methods specified in this document are only related to checking compliance with the On mode and Standby mode power consumption. 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 HKSAR. The participant should conduct appropriate tests, where necessary, in addition to those specified in this document in order to comply with the requirements stipulated in the aforesaid Electrical Products (Safety) Regulation.

Test Conditions

- 6.2 For all televisions, the test conditions shall be as follows:
- | | | |
|-----|---------------------------|---------------------|
| (a) | Electrical supply | 220Va.c. \pm 2%; |
| (b) | Frequency | 50Hz \pm 2%; |
| (c) | Line impedance | < 0.25 ohm; |
| (d) | Total harmonic distortion | < 3% (voltage); and |
| (e) | Test room temperature | 22 °C \pm 4 °C. |

Test Equipment

- 6.3 A wattmeter shall be used to measure the power consumption of the television under test. The wattmeter shall be capable of reading the power drawn by the television without disrupting the electrical power supply.
- 6.4 The wattmeter should have a frequency response of at least 3 kHz and should provide resolution 0.01 Watt and accuracy \pm 1%. In addition, the meter should be capable of reading the current drawn by the television without causing internal peak distortion (i.e. clipping off the top of the current wave). The use of a wattmeter with higher crest factors and more current range choices should be preferred.

Measurement of Power Consumption

- 6.5 The measurement procedures for the Standby mode operation are as follows:
- (a) Power on all test equipment, wait until they have stabilised and properly adjust operation range.
 - (b) Connect the test equipment and unit under test.
 - (c) Check for normal operation of the test unit and leave all customer adjustment to factory default settings.
 - (d) Bring the test unit into standby mode (not off mode) using the remote control device or by operating a switch on the test unit.
 - (e) Either verify that the wall outlet power is within specifications or adjust the AC power source output as described in 6.4.
 - (f) Set the power meter current range. The full scale value selected multiplied by the crest factor rating (I_{peak}/I_{rms}) of the meter must be greater than the peak current reading from the oscilloscope.
 - (g) After the unit under test reaches operating temperature and the readings on the power meter stabilize (approximately 60 minutes), take the true power reading in watts from the power meter.
 - (h) Record the test conditions and test data. The measurement time shall be sufficiently long to measure the correct average value to within a +1% - 0% error. If the device has different standby modes that can be manually selected, the measurement should be taken with the device in the most energy consumptive mode. If the modes are cycled through automatically, the measurement time should be long enough to obtain a true average that includes all modes.
- 6.6 The average power consumption of the television in Standby mode operation shall be determined by computing the average value of five (5) respective separate power consumption measurements. The standby power of the television should be measured in accordance with IEC 62301:2005 (First Edition) "Household electrical appliances - Measurement of standby power" expressed in Watt rounded up to two decimal places.
- 6.7 The on-mode power consumption of the television should be measured in accordance with IEC 62087:2008 (Edition 2.0) "Methods of Measurement for the power consumption of audio, video and related equipment" Clause 11.6 "On (average).mode testing using dynamic broadcast-content video signal".
- 6.8 The measurements of On mode power consumption shall be the average power consumed over ten consecutive minutes expressed in Watt rounded up to two decimal places.

7. Energy Label

- 7.1 A self-adhesive label should be used.

Label Location

- 7.2 The label should be affixed to the appliance at a prominent location and should be easily visible. The participant should ensure that the label appears on every registered appliance on display, sale or hire.

Colour Scheme and Dimensions

- 7.3 The energy labels should be printed on self-adhesive paper or material that is approved by the Director used with white-coloured background and should have colour schemes and dimensions as shown in Annex 1. It should be printed in English and in Chinese. Soft copy of this label can be obtained from Energy Efficiency Office, Electrical and Mechanical Services Department (EMSD).

Label Quality

- 7.4 The paper or material that is approved by the Director used for the energy label should be durable and possess good wear and tear characteristics. It should stick tightly on the appliance and can be removed easily when needed.

Information on the Label

- 7.5 The information that appears on the label should accord to the label format and meanings as indicated in the Annex 1.

8. Testing Facilities, Laboratories and Accreditation Bodies

- 8.1 The testing is carried out either by independent test institutes or by the manufacturers or importers themselves at their own test facilities. The Authority will accept the results and certificates issued by the test laboratory which fulfills one of the following criteria as specified in Clause 8.2 or 8.3.
- 8.2 The laboratory is accredited to IEC 62087:2008 (Edition 2.0) "Methods of Measurement for the power consumption of audio, video and related equipment". 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 HKAS has concluded a mutual recognition agreement#; and the results are issued in a test report or certificate bearing the accreditation mark.

HKAS has concluded mutual recognition arrangement with other partners for 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. Partners to these arrangements recognise the accreditations granted by one another as equivalent.

- 8.3 The Authority will also consider the following arrangement:
- (a) Self-declaration by original manufacturer that the operations of their in-house laboratory followed principally the requirements of ISO/IEC 17025; **and**
 - (b) The manufacturer currently operating according to a recognized international quality system (such as ISO 9001); **and**
 - (c) The manufacturer's in-house laboratory had been successful in carrying out energy consumption tests on television in accordance with IEC 62087:2008 (Edition 2.0) and where these tests had been evaluated and certified by recognised independent certification body.

Recognized Independent Certificate Body

- 8.4 The recognised independent certification body mentioned in Clause 8.3 shall meet the following minimum requirements:
- (a) Being recognized internationally to be competent for certifying product energy efficiency performance tests; and
 - (b) Having experience in assessing and certifying the relevant energy efficiency performance tests; and
 - (c) Having well established assessment procedures, including staff training and assessment criteria, relating to assessment and certification of energy efficiency performance tests.

9. Registration and Participation

Registration Procedures

- 9.1 All manufacturers, importers and the other parties involved in the appliance distribution network are welcomed and encouraged to participate in the scheme. For some known manufacturers and importers, invitation letters will be issued to them. However, any party may submit their applications for registration no matter whether they are invited or not.
- 9.2 The proforma letter of invitation is shown in Annex 2.
- 9.3 Applicant should submit formal application through mail, facsimile or electronic mail.

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by means of an application letter. In order to ensure effective implementation of the scheme, the applicant must be committed to fully comply with the duties,

responsibilities and obligations set out in this 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

- 9.4 Each make and model of an appliance participating in the scheme should be provided with a test report issued by a recognized laboratory. The test report should contain power consumption 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, E-mail address, Contact person, Importer, Distributor, etc.
 - (b) Products to apply for participating in the scheme
Names of products, types, brand names, model references, countries of origin, manufacturer declared screen size diagonal dimension expressed in cm rounded up to nearest whole number.
 - (c) Parties which will be responsible for making and fixing the Energy Label
 - (d) Commencement date to affix energy label on appliance
Year _____, Month _____
 - (e) Documentary proof that the appliance(s) comply with the Electrical Products (Safety) Regulation of the HKSAR.
 - (f) Detailed test reports and relevant photos shall provide at least the following relevant technical and measured data for the appliance:
 - Product Category (e.g. Plasma TV, LCD TV, etc.).
 - The average power consumption of the television in Standby mode operation expressed in Watt round up to two decimal places ;
 - On mode power consumption (measurements using dynamic broadcast-content video signals) expressed in Watt round up to two decimal places;
 - Visible screen dimensions (Width × Height) including diagonal dimension expressed in cm rounded up to one decimal place.
- 9.5 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

- 9.6 On receipt of the application, the Authority will verify whether the appliance 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 Clause 11.

- 9.7 If the application is accepted, the participant will be notified of the result within 17 working days upon receipt of all necessary information requested. The participant will then be allowed to affix the energy label onto the 'registered' appliance. Both manufacturer and importer of the registered appliance should ensure that the energy label is correctly printed and affixed on the appliance in accordance with Section 7. The proforma letter of acceptance is shown in Annex 5.
- 9.8 If the application is rejected, the notification letter as shown in Annex 6 will also be given within 17 working days upon receipt of all necessary information requested.
- 9.9 The flow chart for registration is shown in Annex 7.

Participant's Duties, Responsibilities and Obligations

- 9.10 The participant is obliged to:
- (a) submit application and information including test results in accordance with format and procedures set out in Clause 9.3 – 9.5;
 - (b) conduct tests via recognized laboratories and to comply with the specified test methodology and classification scheme;
 - (c) produce and affix labels at his own costs;
 - (d) fully inform other sales agents in his distribution network once the particular make and model of an appliance is registered under this scheme;
 - (e) allow random/ad-hoc inspection to be conducted by persons authorized by the Authority on registered appliance at his premises;
 - (f) conduct re-test(s) at his own costs at some recognized laboratories, if non-compliance is found on his appliance. The result of re-test(s) shall reach the Authority within the prescribed period of time specified by the Authority;
 - (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 appliance fails to perform in accordance with the requirements as given in Sections 5 and 6 and this cannot be readily rectified, the Authority may order it be de-registered from the scheme; and
 - (i) remove all energy labels from appliances which had been de-registered immediately.
- 9.11 The details of appliances registered under this scheme will be kept in a register maintained by the Authority. The registration records will be regularly uploaded and maintained in the EMSD internet for public and interested parties for access and information.

Termination

- 9.12 Under circumstances of poor performance such as:
- (a) (repeated) failure to fulfil obligations set out under Clause 9.10; or
 - (b) in any other case where the Director is of the opinion that registration of an appliance is contrary to the public interest

the Authority may de-register an appliance from the scheme with immediate effect by giving the participant notice in writing. Once an appliance is de-registered, no one is allowed to fix an energy label on it.

- 9.13 Participant who decides to discontinue participating in the scheme or to withdraw any registered model from the registered appliance list shall give at least three months' advance notice to the Authority.

10. Legal Provisions

- 10.1 This scheme is a voluntary scheme. However, a participant who abuses the scheme by giving false information on a label may contravene provisions of the Trade Descriptions Ordinance (Chapter 362).
- 10.2 No one could take advantage of the scheme by using the label on his appliances without authorization of the Authority as that may constitute an infringement of copyright under the Copyright Ordinance (Chapter 528).

11. Compliance Monitoring and Inspection

Purpose

- 11.1 To uphold credibility of the scheme and to maintain continuous confidence of the consumers, compliance check on energy labels on those appliances participating in the scheme are needed. Also to avoid the unsatisfactory situation that the non-participating parties taking advantage of the scheme by using unauthorized labels, the Authority may also carry out suitable form of inspection on those unregistered appliances which have not been registered under the scheme.

Scope

- 11.2 The scope of inspection includes sample checking and testing the following items:
- (a) whether the energy label is positioned as required in Clause 7.2;
 - (b) whether the energy label being displayed is of correct format in accordance with Section 7;
 - (c) whether the data submitted by the participants are correct by random re-testing and
 - (d) whether unregistered appliances display unauthorized energy label.
- 11.3 The participants will be requested to take immediate remedial action and report the follow-up action taken if non-compliance is found on their appliances.

- 11.4 For a registered appliance which is found giving inaccurate data such as
- (a) Standby / On mode power consumption (measurements using dynamic broadcast-content video signals) test result should not be more than 10% of the registered data; or
 - (b) Visible screen size diagonal dimension discrepancy between the manufacturer declared value and test result is more than 1 cm.

the Authority may request the participant to conduct separate performance tests at his own costs, in accordance with the test methodology as stated in Section 6 in one of the test laboratories agreed by the Authority. The test should be carried out further on at least three similar appliances. The average test result of these three appliances should not exceed the tolerance that mentioned in Clause 11.4 (a) and (b). Otherwise, the Authority will require the participant to take appropriate remedial action including replacing a label with correct information for the registered appliance.

- 11.5 If a registered appliance carrying correct information energy label but found not meeting the performance specified in accordance with the requirements stipulated in Section 5 & 6, the participant will also be requested to repeat the performance tests by an agreed testing laboratory. If significant sub-standard performance is found on the appliance and this cannot be readily rectified, the Authority may order it be de-registered from the scheme. Failure to remove labels from the de-registered appliances after the Director has withheld his authorization for using such labels may contravene the relevant ordinances.

Inspecting Officers

- 11.6 The Authority will authorize inspecting officers to carry out appliance compliance monitoring and inspection. The officers will carry proper identification cards which will be produced during their inspection operations. However, the officers will not inform the participants in advance of their intended inspection operation.
- 11.7 It is the participants' duty to allow the inspecting officers to gain access to their premises to carry out inspection.

Mode of Inspection

- 11.8 Inspections will be carried out on registered appliances under the scheme on random basis. Based on the record of the registration, random inspection programmes will be developed.
- 11.9 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 11.2.
- 11.10 Inspections will normally be carried out at the retail outlets and appliance showrooms. Where necessary, inspection will also be done at warehouses.

- 11.11 The inspection results will be properly recorded for future analysis as well as on evaluation of the effectiveness of the scheme.

12. Complaints and Appeal

- 12.1 The Authority will be responsible for dealing with complaints from participants and other parties against matters related to the scheme.

Complaints Handling Procedure

- 12.2 The Director shall ensure that complaints are properly recorded and handled without undue delay.
- 12.3 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.
- 12.4 The Authority shall inform the complainant of the results or decisions made on the complaint.

Appeal Procedure

- 12.5 A participant who is aggrieved by a decision or action taken by the Authority may appeal to the Director in writing stating the reason for the appeal.
- 12.6 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.
- 12.7 The Director may by notice to the appellant require that appellant to attend meeting with him or his representatives and provide documents and give evidence relevant to the appeal.
- 12.8 The Director shall notify the appellant of his decision and reasons for it. The decision will be final and binding.

13. Maintenance of Scheme

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

- 13.2 The maintenance system consists essentially of:
- (a) Continuous updating of the lists of participants in the scheme as follows:
 - i) registered appliances with details such as registration number in the scheme, date of registration or de-registration if it occurs, energy efficiency data, performance data, make, model and other related information; and
 - ii) registered importers, manufacturers, local agents etc. in the distribution network with details such as address, date of registration or de-registration if it occurs, etc.
 - (b) Periodic review of the test methodology, and procedures for application 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.
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14. Future Development

- 14.1 It is hoped that following the implementation of the scheme, the market will phase out appliances of low efficiency and public awareness of using energy efficient products will be much improved.
- 14.2 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 (EELS) through the Energy Efficiency (Labelling of Products) Ordinance.
- 14.3 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. Five types of prescribed products covered in the mandatory EELS are room air conditioners, refrigerating appliances and compact fluorescent lamps, washing machines, dehumidifiers.

Energy Label Format

100mm

150mm

ENERGY LABEL

能源標籤

Brand 牌子	ABC 某某牌
Model 型號	HK1234
Annual Energy Consumption (kWh) <small>Actual energy consumption depends on how the television is used. Based on 1460 hrs/yr operation.</small> 每年耗電量 (千瓦小時) <small>實際耗電量視乎電視機的使用方式，以每年使用1460小時計算。</small>	123
Energy Efficiency Grade* 能源效益級別 <small>*Among the five grades, Grade 1 is the most energy efficient. 在五個級別中，第一級為最省電。</small>	1
Screen Size Measured Diagonally in cm (inch) 屏幕對角尺寸，以厘米(英寸)量度	102 (40)
EEL Registration Number 能源標籤登記號碼	TV11-0001

*The data are provided according to the Hong Kong Energy Efficiency Labelling Scheme administered by the Electrical and Mechanical Services Department (EMSD), Government of the Hong Kong Special Administrative Region. The registration record can be found at the EMSD website at www.emsd.gov.hk.

資料根據香港特別行政區政府機電工程署推行的香港能源效益標籤計劃的規定列出。有關註冊記錄可查閱網址 www.emsd.gov.hk。

機電工程署
EMSD

(Not to Scale)

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

Proforma Letter of Invitation

Our ref. EEO/LB/25

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 Televisions

Having gone through the necessary consultations and duly considered the views from various concerned parties, the government has decided to revise the Voluntary Energy Efficiency Labelling Scheme for televisions with effect from (_____). The details of the Scheme^① have been finalized and the revised Scheme document can be downloaded from EMSD web-site: <http://www.emsd.gov.hk>.

Being one of the major television manufacturers / importers / agents^② 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 (Scheme document - Annex 3) and submit details including technical information in accordance with the Scheme 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 television is found to be non-compliant, we may consider deregistering the model 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: ^① 'Scheme' means 'The Voluntary Energy Efficiency Labelling Scheme for Televisions'

^② delete as appropriate)

Information to be Submitted to Energy Efficiency Office

1. Information on the company:

Name, Address, Telephone number, Fax, E-mail 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, manufacturer declared screen size diagonal dimension expressed in cm rounded up to nearest whole number.

3. Parties which will be responsible for making and fixing the Energy Label

4. Commencement date to affix Energy Labels on appliance
Year _____, Month _____

5. Detailed test reports together with relevant photos providing at least the following relevant technical and measured data for the appliances:
 - (a) Product Category (e.g. Plasma TV, LCD TV, etc.);
 - (b) The average power consumption of the television in Standby mode operation expressed in Watt round up to two decimal places;
 - (c) On mode power consumption (measurements using dynamic broadcast-content video signals) expressed in Watt round up to two decimal places;
 - (d) Visible screen dimensions (Width × Height) including diagonal dimension expressed in cm rounded up to one decimal place.

6. Documentary proof that the appliance(s) comply with the Electrical Products (Safety) Regulation of the Hong Kong Special Administrative Region.

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

Our ref. EEO/LB/25

Your ref.

Tel:

Fax:

Date

[
Manufacturers/Importers/Agents
]

Dear Sir/Madam,

**Acceptance of Application for Registration to Participate in
Voluntary Energy Efficiency Labelling Scheme for Televisions**

With reference to your letter of ref. _____ dated _____, I am pleased to inform you that your application to participate in the captioned scheme has been accepted.

I enclose herewith the registration certificates of televisions registered. The registered televisions are as follows :

<u>Brand/Make/Model</u>	<u>Registration No.</u>	<u>Effective date</u>
()	()	()

You are allowed to affix a specified energy label onto each and every appliance 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 & Mechanical Services

Proforma letter of Rejection

Your ref.
Our ref. EEO/LB/25

Tel.
Fax.

Date

[
Manufacturers/Importers/Agents
]

Dear Sir/Madam,

Rejection of Application for Registration to Participate in Voluntary Energy Efficiency Labelling Scheme for Televisions

With reference to your letter of application ref. _____ dated _____, I regret to inform you that your application for registration to participate in the scheme has not been accepted for the following reasons:-

1. _____ 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

Flow Chart for Registration

