
The Hong Kong Voluntary Energy Efficiency Labelling Scheme for

Gas Cookers January 2017

Energy Efficiency  **EMSD**

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

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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 Gas Cookers (The Scheme).

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 EELS, some common types of household electrical / 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 electrical / gas appliances and office equipment. Amongst them, 13 types are electrical 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) of gas cookers who are interested to or have participated in the Scheme.
- 3.2 The Scheme commenced from **14 December 2013**. It is further revised on **1 January 2017**. The existing and newly registered labels will remain valid till **31 December 2019**. By then, re-registration may be required subject to the review of the Scheme.
- 3.3 This Scheme applies to domestic cooking appliances which burn gas types defined in the Gas Safety Ordinance (Cap. 51).
- 3.4 The Scheme does not cover hybrid type gas cookers (i.e. hotplate with rice cookers, burners top plus ovens, etc.).
- 3.5 The scope of the Scheme covers all new gas cookers which are being sold in Hong Kong, imported to or manufactured in Hong Kong, with effect from the date that is declared by the participants but does not cover the second-hand products, products already in use, under trans-shipment or manufactured for export, etc.
- 3.6 The Scheme is operated as a 'Recognition Type' labelling system. All participating gas cookers will be registered under this Scheme provided that they have met the performance requirements specified in section 6 of the Scheme.

4. Definitions

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

Authority	means the Electrical & Mechanical Services Department (EMSD), the Government of the HKSAR.
Director	means the Director of Electrical & Mechanical Services Department.

gas appliance	means a gas appliance which is designed, or intended to be used primarily in domestic premises, irrespective of whether it is so used [regulation 2 of the Gas Safety (Installation and Use) Regulations (Cap. 51C)].
Gas Authority	means the public officer appointed under section 5 of the Gas Safety Ordinance (Chapter 51)
gas cooker	means a cooker uses gas as fuel source. The continued fuel gas supply maintains cooking stove flame burning.
GB standard	means standards for gas appliance design, construction and safety performance issued by State Administration of the PRC for Quality Supervision and Inspection and Quarantine (AQSIQ).
Government	means the Government of the HKSAR.
inspecting officer	means the officer authorized by the Director to carry out inspection on gas cookers under this Scheme.
label	means the energy label as described in section 7 of this document.
model	means the commercial description of the make, type, and if available and appropriate, variant and version of a gas cooker.
participants	means the manufacturers, importers or the retailers of gas cookers participating in the Scheme.
recognized laboratory	means a laboratory that complies with the requirements as stated in section 8 of this document and is acceptable to the Authority for carrying out tests and issuing test reports on gas cookers.
Recognized Certification Authority (RCA)	means an independent organization recognized by the Gas Authority which is empowered under law or decree, (e.g. notified body appointed by the Commission of European Communities), to certify that a gas appliance is designed and produced in compliance with international or national safety standards.
the/this Scheme	means the Hong Kong Voluntary Energy Efficiency Labelling Scheme for Gas Cookers.

5. Test Methodology and Technical Standard

Energy Efficiency Measurement

- 5.1 The gas cooker shall be tested in accordance with GB 16410-2007 <<Domestic Gas Cooking Appliances>> standard.

Number of Samples to be Tested

- 5.2 For submission of product information of a gas cooker model under clause 9.4 of the Scheme, a test report on one sample of the model shall be submitted.

6 Performance Requirements

Thermal Efficiency Requirement

- 6.1 The calculation of thermal efficiency for the gas cooker should be based on gross calorific values of gas. The measured thermal efficiency shall be equal to or greater than the corresponding allowable value as indicated in Table 1.

Table 1 : Minimum Allowable Thermal Efficiency

Gas Cooking Appliance type	Rated Power (kW)	Minimum Allowable Thermal Efficiency (Gross Calorific Values)
Table-top	≤ 5.92	48%
	> 5.92	40%
Built-in	≤ 5.92	44%
	> 5.92	40%

Safety Requirements

- 6.2 In addition to the energy efficiency performance requirements, all gas cookers shall comply with the safety standard specified in the "Gas Safety (Installation and Use) Regulations (Cap.51C)".

7 Energy Label

- 7.1 The specification of the energy label for gas cooker 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.

- 7.2 (a) Subject to clause 7.2(c), the energy label is to be attached or affixed to a prominent position of the gas cooker and is to be clearly visible. The participant should ensure that the label appears on every registered gas cooker on display, sale or hire.
- (b) For the avoidance of doubt, if only part of the gas cooker is being exhibited, the energy label is to be attached or affixed to a prominent position of that part and is to be clearly visible.
- (c) The energy label may be attached to the gas cooker or its packaging in a manner specified by the Director where the Director has approved its being so attached.
- 7.3 The energy label shall be of cardboard, if it is to be attached as a swing tag, or be self-adhesive and shall be cut to the outline shown in Annex 1 or otherwise approved by the Director. A trim or die cut margin of up to 2 mm around the energy label is acceptable.
- 7.4 The paper used for the energy label shall be durable with good wear and tear characteristics.
- 7.5 The energy label should be printed in both Chinese and English. Soft copy of the energy label can be obtained from Energy Efficiency Office, Electrical and Mechanical Services Department.

8 Testing Facilities, Laboratories & Accreditation Bodies

- 8.1 The Authority will accept the results and certificates issued by the test laboratories which fulfil one of the following criteria as specified in clause 8.2 or 8.3.
- 8.2 The laboratory is a Recognized Certification Authority (RCA) accepted by the Gas Authority.
- 8.3 The laboratory is a basic safety assessment service provider of Initial Type Approval (TA2) accepted by the Gas Authority.

9 Registration and Participation

Registration Procedures

9.1 All manufacturers, importers and the other parties involved in the gas cookers 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.

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

9.3 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 or via online application services.

Information/Documents to be Submitted for Registration

9.4 Each make and model of a gas cooker participating in the Scheme should be provided with a test report issued by a recognized laboratory. The test report should contain energy consumption tests 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) Products 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 gas cooker
Year _____, Month _____
- e) Detailed test reports shall provide at least the relevant technical data of rated power and thermal efficiency with calculation method for the gas cooker.
- h) Documentary proof that the gas cooker complies with the "Gas Safety Ordinance of the HKSAR" (Cap. 51).

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

- 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 process the application and verify whether the gas cooker to be registered meets the 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 11.2.
- 9.7 If the application is accepted, the participant will be notified of the result in writing within 17 working days upon receipt of all necessary information requested. The participants will then be allowed to affix the label onto the 'registered' gas cooker. Both manufacturer and importer of the registered gas cooker should ensure that the energy label is correctly printed and affixed on the gas cooker 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 will also be issued within 17 working days upon receipt of all necessary information requested. The proforma letter of rejection is shown in Annex 6.
- 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 & procedures set out in clauses 9.4 and 9.5;
 - b) conduct tests via recognized laboratories and to comply with the specified test methodology;
 - 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 a gas cooker is registered under the Scheme;
 - e) allow random/ad-hoc inspection to be conducted by persons authorized by the Authority on registered gas cooker at his premises;
 - f) conduct re-test(s) at his own costs at some recognized laboratories, if non-compliance is found on his registered gas cooker. 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 registered gas cooker fails to perform in accordance with the performance requirements as given in section 6 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 gas cookers immediately.
- 9.11 The details of the registered gas cookers 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

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

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

De-registration may occur even when there is no legal action taken under either the Trade Description Ordinance (Chapter 362) or the Copyright Ordinance (Chapter 528).

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

10 Legal Provisions

- 10.1 The Scheme is a voluntary scheme. However, a participant who abuses the Scheme by giving false information on an energy label may contravene provisions of the Trade Description Ordinance (Chapter 362).

- 10.2 No one could take advantage of the Scheme by using the energy label on his gas cookers without authorization of the Authority as that shall constitute an infringement of copyright under the Copyright Ordinance (Chapter 528).

11 Compliance, Monitoring and Inspection

Purpose

- 11.1 To uphold the credibility of the Scheme and to continue maintaining the confidence of the consumers, compliance check on energy labels on those gas cookers 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 gas cookers which have not been registered under the Scheme.

Scope

- 11.2 The scope of inspection includes sample **checking** and **testing** of the following items:-
- (a) whether the energy label is affixed on the registered gas cooker;

- (b) whether the energy label on the registered gas cooker is affixed to a prominent position in accordance with clause 7.2;
 - (c) whether the energy label being displayed is of correct format in accordance with section 7;
 - (d) whether the registered gas cooker complies with the performance requirements;
 - (e) whether the data submitted by the participants are correct by random re-testing; and
 - (f) whether the unregistered gas cookers display unauthorized energy labels.
- 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 gas cookers.
- 11.4 For a registered gas cooker which is found with energy performance data non-compliance to the performance requirements as stated in section 6, the Authority may request the participant to conduct separate energy performance tests at his own costs, in accordance with the test methodology as stated in section 5, in one of the testing laboratories agreed by the Authority.
- 11.5 If non-compliance is confirmed and no remedial action is to be taken by the participant, the Authority may order it be de-registered from the Scheme. Failure to remove energy labels from the de-registered gas cookers 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 compliance monitoring and inspection on gas cookers. 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.
- 11.7 It is the participants' obligation 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 gas cookers 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 at the gas cookers retail outlets and 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 the complaints from participants and other parties against matters related to the Scheme.

Complaints Handling Procedures

- 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 Procedures

- 12.5 A participant who feels aggrieved by the decision or action given by the Authority according to section 9 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 representative, provide documents and give evidence relevant to the appeal.
- 12.8 The Director shall notify the appellant of his decision and the reasons for it. The decision will be final and binding.

13 Maintenance of Scheme

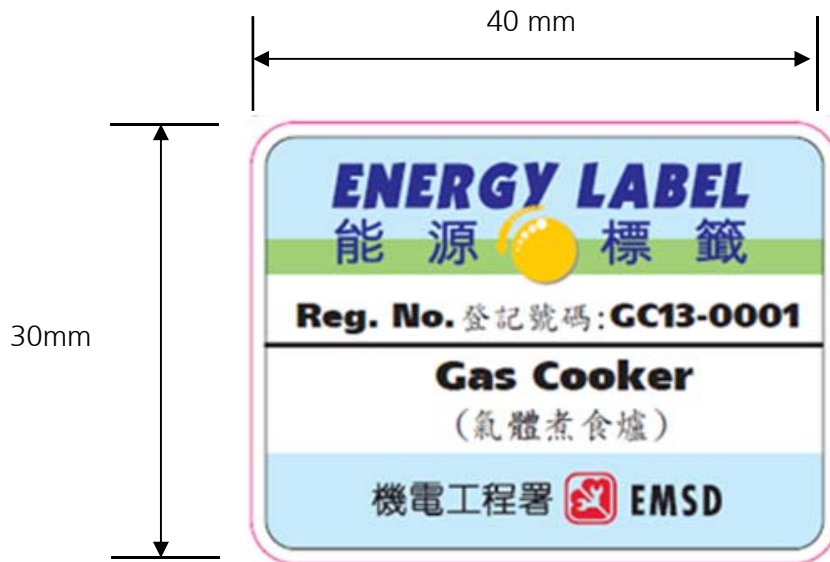
- 13.1 To ensure that the Scheme can continue to operate effectively and efficiently after its introduction, a proper system of maintenance is needed.
- 13.2 The maintenance system consists essentially of -
- (a) Continuous updating of the following relevant information of the participants in the Scheme -
 - i. Details of the registered gas cookers such as registration number, date of registration or de-registration if it occurs, 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 incurs, 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.

14 Future Development

- 14.1 It is hoped that following the implementation of the Scheme, the market will phase out models of low efficiency appliances 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, compact fluorescent lamps, washing machines, and dehumidifiers.

The Hong Kong Voluntary Energy Efficiency Labelling Scheme
for Gas Cookers
Energy Label Format



(Not to Scale)

Note : 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/37

Your ref.

Tel.

Fax.

Date

[Name and Address of
Manufacturers/Importers/Agents]

Dear Sir/Madam,

Invitation of Application for Registration in The Hong Kong Voluntary Energy Efficiency Labelling Scheme for Gas Cookers

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 gas cookers to Hong Kong with effect from (_____). The details of the Scheme^① have been finalized and I enclose herewith a guide of the Scheme for your reference.

Being one of the major gas cookers 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 (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 gas cooker is found to be non-compliant, we may consider deregistering the gas cooker 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 Gas Cookers '
② delete as appropriate)

Proforma Letter of Application

Your ref. () EMSD/EEO/LB/37

Our ref.

Tel.

Fax.

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 Gas Cookers

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 gas cooker(s) 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 the gas cooker fails to perform in accordance with the required technical standards as stated in section 5 and the performance requirements 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 the gas cooker(s) 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 number, Email address, Contact person, Importer, Distributor, etc.
2. Product to apply for participating in the Scheme:
Name of products, types, brands, model references, countries of origin
3. The party which will be responsible for making and fixing the Energy Label.
4. Commencement date to affix Energy Labels on domestic gas cooker package
Year _____, Month _____
5. Detailed test reports shall provide at least the relevant technical data of rated power and thermal efficiency with calculations for the gas cooker.
6. Documentary proof that the gas cooker complies with the "Gas Safety Ordinance of the HKSAR" (Cap. 51).

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/37

Tel:

Fax:

Date

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Name and Address of
Manufacturers/Importers/Agents

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Dear Sir/Madam,

Acceptance of Application for Registration in The Hong Kong Voluntary Energy Efficiency Labelling Scheme for Gas Cookers

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 certificate(s) of gas cooker(s) registered. The registered gas cooker(s) is(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 gas cooker 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 & Mechanical Services

Proforma Letter of Rejection

Our ref. () EMSD/EEO/LB/37

Your ref.

Tel.

Fax.

Date

「

Name and Address of
Manufacturers/Importers/Agents

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Dear Sir/Madam,

Rejection of Application for Registration in The Hong Kong Voluntary Energy Efficiency Labelling Scheme for Gas Cookers

With reference to your letter of ref. _____ dated _ _____,
we regret to inform you that your application for registration 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 Gas Cookers –
Flow Chart of Registration

