
The Hong Kong Voluntary Energy Efficiency Labelling Scheme for

Petrol Passenger Cars

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Energy Efficiency  **EMSD**

Electrical and Mechanical Services Department

3 Kai Shing Street, Kowloon, Hong Kong

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

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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 (EELS) for petrol passenger cars.

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 these factors into account in making 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, electric 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 to enable ordinary consumers to select products that are more energy efficient;
- stimulation to the manufacturers and the market for phasing out the less energy efficient models ; and
- actual energy savings and environmental improvements etc.

2.3 Hong Kong also aims at achieving the above objectives. The Hong Kong Voluntary EELS for household electrical appliances was launched in 1995 and it was extended to cover office appliances in 2000. The Electrical & Mechanical Services Department (EMSD) being the administrative agency for the above EELS introduced a new scheme for passenger cars in 2002 and re-launched the scheme this year after increasing its flexibility in acceptable test standards. The new scheme is intended to give car buyers comparative information about the fuel consumption of different models under standard test conditions.

2.4 In addition to the above objectives, the vehicle labelling scheme also aims at achieving the followings :

- i) to make consumers aware of fuel efficiency and environmental improvement needs;
- ii) to encourage consumers to select cars which use relatively less fuel and which meet their performance expectation and lifestyle needs while benefiting others by having less emission;
- iii) to enable consumers to take account of the fuel cost of operating a car and to minimize the total life cycle cost of the car where possible ;
- iv) to influence car manufacturers and importers to improve the energy efficiency of passenger cars that they supply to the market ;
- v) to achieve actual saving in fuel costs and environmental improvements ;
and
- vi) to reduce Hong Kong's dependency on fossil fuel.

3. Outline of the Voluntary Energy Efficiency Labelling Scheme

The following aspects of the scheme will be outlined in the subsequent sections.

- Scope (section 4)
- Definitions (section 5)
- Passenger Car Classification (section 6)
- Test Methodology and Standard (section 7)
- Energy Label (section 8)
- Testing Facilities & Laboratories (section 9)
- Registration & Participation (section 10)
- Legal Provisions (section 11)
- Compliance Monitoring & Inspection (section 12)
- Complaints and Appeal (section 13)
- Maintenance of Scheme (section 14)
- Future Development (section 15)

4. Scope

- 4.1 The scheme will only apply to the vehicle manufacturers and importers who have participated in this voluntary scheme.
- 4.2 The scheme commenced from 22 February 2002 and labels will expire on 31 December 2013 when re-registration is necessary.
- 4.3 The scope of application covers all *new* petrol passenger vehicles to be sold in Hong Kong with effect from the date that is declared by the participants but does not cover second-hand cars, cars already in use, under trans-shipment or export, etc.
- 4.4. The scheme will operate as a 'Comparison Type' labelling system and no ranking will be assigned to each car model. All participating vehicles will be registered under this scheme provided that they have undergone the standard tests specified in the scheme for determining the fuel consumption.
- 4.5 Passenger cars under this labelling scheme apply to all motor vehicles used for the carriage of passengers and comprising no more than eight seats in addition to the driver's seat, and having a maximum weight not exceeding 3.5 tons. Vehicles that are used for the carriage of passengers but comprising more than eight seats in addition to the driver's seat, or have a maximum weight exceeding 3.5 tons, or are used for the carriage of goods are excluded from this scheme.
- 4.6 This scheme applies to *passenger vehicles using petrol fuel only*. Other categories of vehicles and fuels such as diesel, liquefied petroleum gas, natural gas, electricity etc., are not included in this scheme.

5. Definitions

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

<i>Authority</i>	means the Electrical and Mechanical Services Department, the Government of the Hong Kong Special Administrative Region (HKSAR).
<i>combined fuel consumption (HK)</i>	means the fuel consumption determined for a vehicle by averaging the fuel consumption of the urban and highway cycle, and weighted by the factors which represent the average usage (vehicle-km) of urban roads to highways in Hong Kong condition.
<i>Director</i>	means the Director of Electrical and Mechanical Services.
<i>fuel</i>	means petrol fuel for passenger cars.
<i>Government</i>	means the Government of the Hong Kong Special

	Administrative Region.
<i>highway fuel consumption</i>	means the fuel consumption determined using the amount of exhaust gases collected during the highway cycle of the fuel consumption test.
<i>inspecting officer</i>	means the officer authorized by the Director to carry out inspection on vehicles under this scheme.
<i>label</i>	means the energy label that contains fuel consumption information.
<i>model</i>	means the commercial description of the make, type, and if available and appropriate, variant and version of a passenger car.
<i>participants</i>	means the manufacturers, importers or the dealers of vehicles participating in the scheme.
<i>passenger cars</i>	means any motor vehicles for the carriage of passengers and comprising no more than eight seats in addition to the driver's seat, and having a maximum weight not exceeding 3.5 tons.
<i>recognized laboratory</i>	means a laboratory that complies with the requirements as stated in Section 9 and is acceptable to the Authority for carrying out tests and issuing test reports for passenger vehicles.
<i>registered car, registered vehicle</i>	means a car registered under the the Hong Kong voluntary energy efficiency labelling scheme.
<i>registration</i>	means the process of registering a car under the Hong Kong voluntary energy efficiency labelling scheme. This should not be confused with vehicle "registration" under Transport Department.
<i>scheme</i>	means the Hong Kong voluntary energy efficiency labelling scheme for passenger cars.
<i>urban fuel consumption</i>	means the fuel consumption determined using the amount of exhaust gases collected during the urban cycle of the fuel consumption test.

6. Passenger Car Classification

- 6.1 Passenger cars under this scheme shall be classified into the following seven categories based on the cylinder capacity of the engine:

Table 1 Passenger Car Classification

<i>Category</i>	<i>Cylinder Capacity of the Engine (Ve)</i>
1	$Ve \leq 1,500$ cubic centimeters
2	$1,500 < Ve \leq 2,000$ cubic centimeters
3	$2,000 < Ve \leq 2,500$ cubic centimeters
4	$2,500 < Ve \leq 3,000$ cubic centimeters
5	$3,000 < Ve \leq 3,500$ cubic centimeters
6	$3,500 < Ve \leq 4,500$ cubic centimeters
7	$4,500$ cubic centimeters $< Ve$

7. Test Methodology & Standard

Test Methodology

- 7.1 There are various design and features of passenger cars. Many of these, including the size, weight, engine capacity, power, speed and transmission etc, affect the fuel consumption of a vehicle. The fuel consumption is one of the factors car buyers often take into account when making a purchasing decision on a new passenger car. To date, the fuel consumption figures of some vehicles are shown in the sales brochures/technical specifications or can be obtained in the showrooms upon request. However, these fuel consumption figures are usually quoted based on the manufacturers' national testing procedures and/or regulations and are not according to a unified testing standard.
- 7.2 To enable consumers to compare the fuel consumption of various makes and models and to select the most fuel-efficient ones, the fuel consumption should be determined based on a set of identical testing conditions. Many passenger cars sold in Hong Kong are manufactured and tested according to European, Japanese and USA standards. In view of this market situation, the scheme accepts the latest update of the Directive 80/1268/EEC of the European Union, Japanese Industrial Standard JIS D 1012 and TRIAS 5-3-1999, and 40 CFR600 of United States Code of Federal Regulations for the determination of the fuel consumption. The test procedure, measurement of fuel consumption and test cycles are described in these standards.

Combined Fuel Consumption (HK)

- 7.3 For passenger cars tested to Japanese standard, the rate of fuel consumption obtained at 10•15-mode operation is taken as the combined fuel consumption (HK).
- 7.4 For passenger cars tested to European or USA standard, the combined fuel consumption (HK) is a figure combining the contribution of the fuel consumption of the urban and highway cycle together. It is calculated by applying pre-determined weighing factors that approximate the average usage of urban roads and highways in Hong Kong, before summing the two weighed consumption figures to give the combined fuel consumption (HK). These weighing factors are determined by making reference to the vehicle-kilometrage data published by Transport Department. For the present scheme, the weighing factors are as follows:
- % urban = 40%
- % highway = 60%

Annual Fuel Consumption

- 7.5 The annual fuel consumption is based on the combined fuel consumption (HK) and 10,000 kilometres travelled per year.

Calculation Method

- 7.6 For passenger cars tested to Japanese standard, the rate of fuel consumption obtained at 10•15-mode operation is taken as the combined fuel consumption (HK) :

$$FC_c(\text{HK}) = FC(\text{Japan})$$

where $FC_c(\text{HK})$ = combined fuel consumption (HK), in km per litre
 $FC(\text{Japan})$ = urban and highway fuel consumption value for this vehicle model, in km per litre

Annual fuel consumption is determined by the following equation:

$$\text{Annual fuel consumption} = 10,000 / FC_c$$

- 7.7 For passenger cars tested to European or USA standard, the combined fuel consumption (HK) is the average of the urban fuel consumption and the highway fuel consumption, weighted by the local factors which approximate the usage of urban roads / highways in Hong Kong:

$$FC_c(\text{HK}) = \% \text{ urban} \times (\text{urban FC}) + \% \text{ highway} \times (\text{highway FC})$$
$$= 0.4 \times (\text{urban FC}) + 0.6 \times (\text{highway FC})$$

where FC_c (HK)	=	combined fuel consumption (HK), in litres per 100 km
% urban	=	the average usage of urban roads in Hong Kong
urban FC	=	the urban fuel consumption value for this vehicle model, in litres per 100 km
% highway	=	the average usage of highways in Hong Kong
highway FC	=	the highway fuel consumption value for this vehicle model, in litres per 100 km

Annual fuel consumption is determined by the following equation :

$$\text{Annual fuel consumption} = FC_c \times 100$$

- 7.8 Passenger cars participating in the scheme are also required to comply with the requirements of the Environmental Protection Department and Transport Department regarding exhaust emissions and vehicle examination respectively and shall include a copy of the following documents during the label application :
- an approval/exemption letter issued by the Environmental Protection Department for compliance with the vehicle exhaust emission ; and
 - a Type Approval Certificate or Certificate of Roadworthiness issued by the Transport Department for compliance with vehicle examination requirements.

8. Energy Label

General

- 8.1 The energy label shall contain information on fuel consumption that has been determined in accordance with the standards and methods laid down in Section 7 of this scheme document. The label will be issued for the new vehicles that have undertaken the fuel consumption tests and complied with the requirements on exhaust emission tests and vehicle examination under the laws of the HKSAR.

Label Location

- 8.2 The energy label shall be affixed to the bottom corner of the front windscreen on the driver's side. The information on the label shall be legible and shall be visible from outside the vehicle. The label shall remain affixed until the time the vehicle is delivered to the ultimate consumer. The participants should ensure that the label appears on every vehicle of that same model displayed at all showrooms. Alternatively, the energy label can also be placed on a display

board that can be unambiguously identified for displaying information about the car.

Colour Schemes & Dimensions

- 8.3 The energy labels should be printed on material 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.

Paper Quality

- 8.4 If the label is to be affixed on a car for display, the paper used for the label should be durable, and removable, and of a type suitable for application to the windscreen.

Information on the Label

- 8.5 The information that appears on the energy label should be in accordance with the label format and wordings as illustrated in Annex 1. The label shall contain the fuel consumptions for urban and highway test cycle.

9. Testing Facilities and Laboratories

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 issued by the test laboratory which fulfills one of the following criteria :

- a) The test laboratory is responsible for the EC type-approval or national type-approval tests with regard to emissions and fuel consumption according to the latest update of 80/1268/EEC or JIS D 1012 or 40 CFR600 or other equivalent international standards ; or
- b) The test laboratory has been accredited by an internationally recognized certification organization on the scope of emission test and fuel consumption of vehicles based on the latest update of 80/1268/EEC or JIS D 1012 or 40 CFR600 or other equivalent international standards ; or
- c) The test laboratory had been successful in carrying out emissions and fuel consumption tests on vehicles based on the latest update of 80/1268/EEC or JIS D 1012 or 40 CFR600 or other internationally recognized emission and fuel consumption standards and where these tests had been evaluated and certified by third party internationally recognized certification organizations ; or
- d) The test laboratory provides alternative evidence to the satisfaction of the Authority. The evidence includes as a minimum :

- i) A document providing a detailed description of the laboratory quality management system as well as the instrument calibration management programme ; and
- ii) Documentation which shows the testing facilities and personnel are suitable for carrying out the emissions and fuel consumption tests based on the latest update of 80/1268/EEC or JIS D 1012 or 40 CFR600 or other equivalent international emission standards ; and
- iii) The relevant sample reports on vehicle exhaust emission test including all test figures and measurement records and charts on emission tests.

10. Registration & Participation

Registration Procedures

- 10.1 All manufacturers, importers and the other parties involved in the vehicle business 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.
- 10.2 The proforma letter of invitation is shown in Annex 2.
- 10.3 Applicant should submit formal application through mail, facsimile or electronic mail.

*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. 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.

Information/Documents to be Submitted for Registration

- 10.4 Each make and model of a passenger car participating in the scheme should be provided with a test report issued by a recognized laboratory. The test report should contain fuel consumption tests 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) Product to apply for participating in the scheme:

Name of products, types, makes, models, countries of origin

c) Which parties will be responsible for making and fixing the Energy Label

d) Commencement date to affix label on product

Year____, Month_____

e) Completion of the Information stated in Energy Label for each product including the following:

Make (English & Chinese)

Model

Country of Origin

Car Category (refer to section 6)

Engine Size (cc)

Number of Cylinders

Urban Fuel Consumption (L/100km)

Highway Fuel Consumption (L/100km)

10•15-mode Fuel Consumption (km/L)

Combined Fuel Consumption (HK) (L/100km for European/USA standard, or km/L for Japanese standard)

Annual Fuel Consumption (Litres)

Car size (length × width)

Type of Fuel

Transmission Type (e.g. automatic, manual)

Number of Gears/Speed (e.g. manual four-speed, three-speed automatic)

Drive system (e.g. front wheel drive, four wheel drive)

f) Supporting Technical Information and Calculations

Test reports : -

Emissions of CO, CO₂ and hydrocarbon according to the latest update of Type I test procedure specified in Council Directive 70/220/EEC

administered by the European Council, or the 10•15-mode operation administered by the Ministry of Land, Infrastructure and Transport of Japan, or the 1975 Federal Test Procedure administered by the Environmental Protection Agency of the United States of America.

Fuel consumption for urban and extra-urban cycles specified in the latest update of 80/1268/EEC, or 10•15-mode operation specified in JIS D 1012 and TRIAS 5-3-1999, or urban and highway cycles specified in 40 CFR600

Annual fuel consumption for 10,000 km.

Note : All photocopy of test reports submitted to the office should be certified true copy by the appropriate organization(s).

Calculations :-

Emissions of CO, CO₂ and hydrocarbon

Urban and highway fuel consumption

10•15-mode fuel consumption

Combined fuel consumption (HK)

Annual fuel consumption for 10,000 km.

g) Miscellaneous Technical Information:

Product information catalogue

Technical Specification

Others

- h) An approval letter or exemption letter issued by the Environmental Protection Department to prove that the car model complies with the vehicle exhaust emission standards.
- i) A Type Approval Certificate or Certificate of Roadworthiness issued by the Transport Department for compliance with vehicle examination requirements.

Note : Company's name and chop should be stamped on all the documents provided.

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

Acceptance of Registration

- 10.5 On receipt of the application, the Authority will verify whether the passenger car under application falls into the appropriate car category, and the fuel consumption figures are correctly obtained based on the submitted data. The

accuracy of the fuel consumption data, their inconsistencies and non-compliance will be dealt with in accordance with Section 12.2.

- 10.6 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 label onto the 'registered' cars. Both manufacturer and importer of the registered vehicle should ensure that the energy label is correctly printed and affixed in accordance with Section 8. The proforma letter of acceptance is shown in Annex 5.
- 10.7 If the application is rejected, the notification letter as shown in Annex 6 will also be given in 17 working days.
- 10.8 The flow chart for registration is shown in Annex 7.

Participant's Duties, Responsibilities and Obligations

- 10.9 The participant is obliged to:-
 - a) submit application and information including test results in accordance with format and procedures set out in section 10.4;
 - 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 a car is registered under the scheme;
 - e) allow random/ad-hoc inspection to be conducted by persons authorized by the Authority on registered car at his premises;
 - f) conduct re-test(s) at his 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 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 the car fails to perform in accordance with the required standard performance as given in Sections 6, 7 and 8 and this cannot be readily rectified, the Authority may order it be de-registered from the scheme; and
 - i) remove all energy labels from cars which had been de-registered from the scheme immediately.
- 10.10 The details of cars registered under the 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

- 10.11 Under circumstances of poor performance such as:
- a) (repeated) failure to fulfill obligations set out under section 10.9;
 - b) once false or inaccurate or misleading information is given on a label;
or
 - c) in any other case where the Director is of the opinion that registration of a car is contrary to the public interest,
- the Authority may de-register a car from the scheme with immediate effect by giving the participant notice in writing. Once a car is de-registered, no one is allowed to fix a label on it. However, participant will normally be given a grace period of one month to remove all labels from the de-registered cars.
- De-registration may occur even when there is no legal action taken under either the Trade Descriptions Ordinance or the Copyright Ordinance.
- 10.12 Participant who decides to discontinue participating in the scheme or to withdraw any registered model from the registered passenger cars list shall give at least three months' advance notice to the Authority.

11. Legal Provisions

- 11.1 This 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.
- 11.2 No one could take advantage of the scheme by using the label on his cars without authorization of the Authority as that may constitute an infringement of copyright under the Copyright Ordinance.

12. Compliance Monitoring & Inspection

Purpose

- 12.1 To uphold credibility of the scheme and to maintain continuous confidence of the consumers, compliance check on energy labels on those passenger cars 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, we may also carry out suitable form of inspection on cars which has not been registered under the scheme.

Scope

- 12.2 The scope of inspection includes sample checking and testing the following items :-
- a) whether the energy label is positioned as required in clause 8.2;
 - b) whether the energy label being displayed is of correct format in accordance with Section 8 ;
 - c) whether the information on energy label accords with record ;
 - d) whether the data submitted by the participants are correct by random re-testing; and
 - e) whether unregistered cars display unauthorized energy labels.
- 12.3 The participants will be requested to take immediate remedial action and report the follow-up action taken if non-compliance is found on their cars.
- 12.4 If a registered car which is found giving wrong fuel consumption data on the label during random testing, the Authority may request the participant to conduct separate fuel consumption test at his own cost, in accordance with the test methodology as stated in Section 7 in one of the testing laboratories agreed by the Authority. 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 labels from the de-registered cars after the Director has withheld his authorization for using such labels may contravene the relevant ordinances.

Inspecting Officers

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

Mode of Inspection

- 12.7 Inspections will be carried out on passenger cars registered under the scheme on random basis. Based on the record of the registration, random inspection programmes will be developed. Initially, at least one specimen of each type of registered car will be randomly checked or tested once every year depending on availability of resource and the number of registered cars.
- 12.8 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 Section 12.2.
- 12.9 Inspections will normally be carried out at the retail outlets and cars showrooms. Where necessary, inspection will also be done at warehouses.
- 12.10 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 complaints from participants and other parties against matters related to the scheme.

Complaints Handling Procedure

- 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 Procedure

- 13.5 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.
- 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 and provide documents and give evidence relevant to the appeal.

- 13.8 The Director shall notify the appellant of his decision and reasons for it. The decision will be final and binding.
-

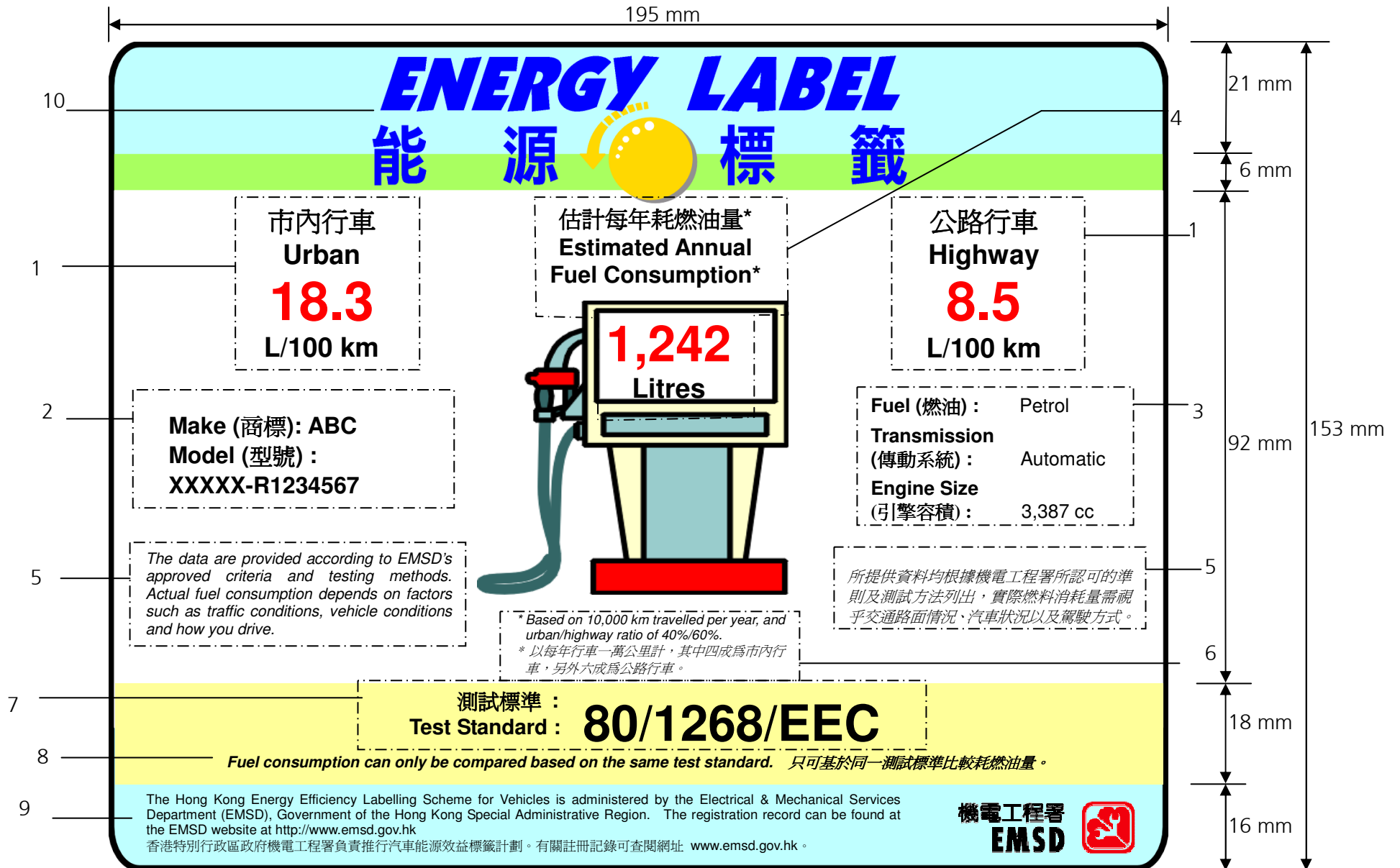
14. Maintenance of Scheme

- 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 lists of participants in the scheme as follows :
 - i) registered cars with details such as registration number in the scheme, date of registration or de-registration if it occurs, fuel consumption data, make, model, category 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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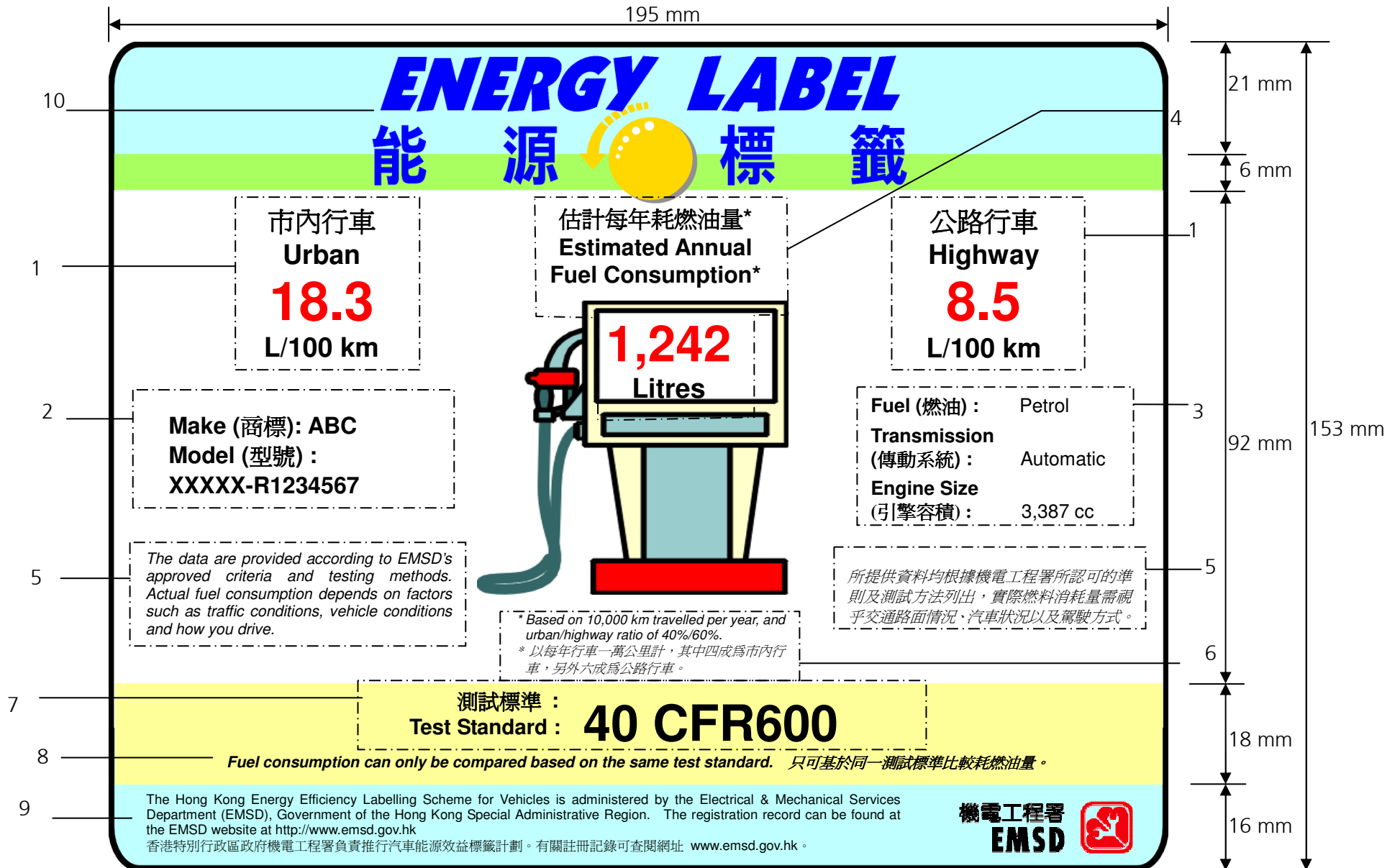
15. Future Development

- 15.1 It is hoped that following the implementation of the scheme, the market will phase out vehicles of low efficiency and public awareness of using fuel efficient vehicles 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 (EELS) 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. Five types of prescribed products covered in the mandatory EELS are room air conditioners, refrigerating appliances, compact fluorescent lamps, washing machines and dehumidifiers.

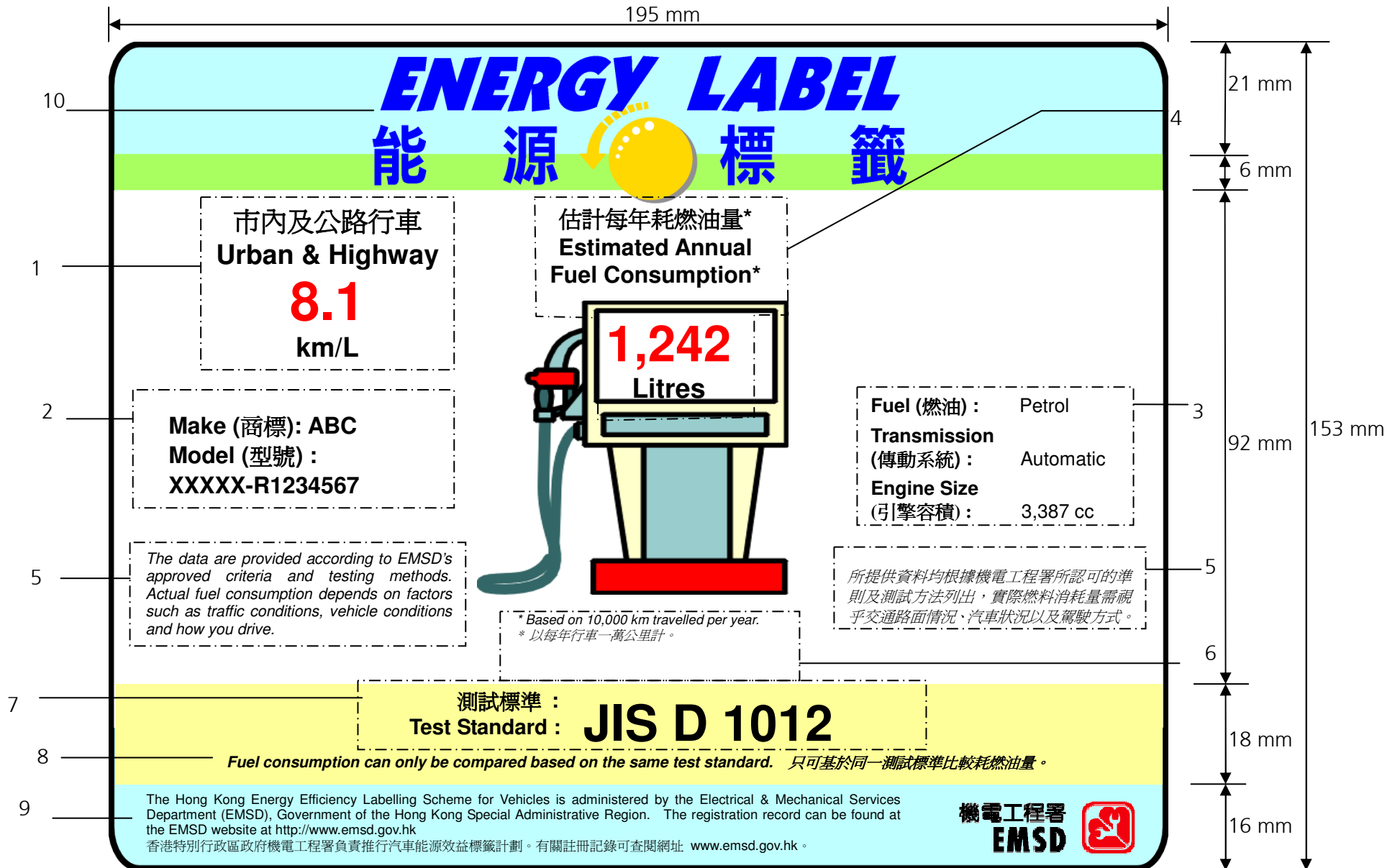
Label Format for Cars Tested to European Standard



Label Format for Cars Tested to USA Standard



Label Format for Cars Tested to Japanese Standard



Colour Schedule

ENERGY LABEL
能源標籤

20C, 10Y
White
20M, 100Y
40C, 70Y
100C, 80M
Shadow
44C, 35M, 30Y, 10K

Background White

Text 90M, 100Y

75C, 30M, 45Y, 35K

Other Text Black

20C, 10Y

市內及公路行車
Urban & Highway
8.1
km/L

估計每年耗燃油量*
Estimated Annual Fuel Consumption*
1,242
Litres

Make (商標): ABC
Model (型號): XXXXX-R1234567

The data are provided according to EMSD's approved criteria and testing methods. Actual fuel consumption depends on factors such as traffic conditions, vehicle conditions and how you drive.

** Based on 10,000 km travelled per year.
* 以每年行車一萬公里計。*

Fuel (燃油): Petrol
Transmission (傳動系統): Automatic
Engine Size (引擎容積): 3,387 cc

所提供資料均根據機電工程署所認可的準則及測試方法列出，實際燃料消耗量需視乎交通路面情況、汽車狀況以及駕駛方式。

45C, 5M, 20Y
90M, 100Y
30Y

測試標準：
Test Standard: JIS D 1012

Fuel consumption can only be compared based on the same test standard. 只可基於同一測試標準比較耗燃油量。

The Hong Kong Energy Efficiency Labelling Scheme for Vehicles is administered by the Electrical & Mechanical Services Department (EMSD), Government of the Hong Kong Special Administrative Region. The registration record can be found at the EMSD website at <http://www.emsd.gov.hk>
香港特別行政區政府機電工程署負責推行汽車能源效益標籤計劃。有關註冊記錄可查閱網址 www.emsd.gov.hk

機電工程署
EMSD

Character Font & Size

Energy Label for Vehicles

Font for notes and data shall be 'Arial' and '新細明體' respectively, and size shall accord to the following table.

Table 2 : Label Font and Size

Notes on Label	English	Chinese	Data
1. Urban & Highway (L/100 km or km/L)	14 [^] (14 [^])	14 [^]	28 [^]
2. Make & Model	12 [^]	12 [^]	12 [^]
3. Fuel, Transmission, Engine Size	10 [^]	10 [^]	10
4. Estimated Annual Fuel Consumption (Litres)	12 [^] (10)	12 [^]	20 [^]
5. Explanatory Notes	8	8	NA
6. Explanatory Notes	7	7	NA
7. Test Standard	11 [^]	11 [^]	26
8. Explanatory Notes	8 [^]	8 [^]	NA
9. Notes for Registration Record	7	7	NA
10. Logo [#] (see Remarks)	42	34	NA

Remarks:

[^] Bold Character

[#] Font for logo 'ENERGY LABEL' and '能源標籤' shall be 'Kabel Ult BT' and '華康新儷粗黑' respectively.

Colour Used

CMYK – Cyan, Magenta, Yellow, Black

Example:

20 C, 26M, 5Y, 35K = 20% Cyan, 26% Magenta, 5% Yellow and 35% Black

The colour details specified for the label are shown in the colour schedule.

Proforma Letter of Invitation

Our ref. () in EEO/TR/03
 Your ref.
 Tel:

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 Petrol Passenger Cars

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 passenger cars 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 vehicles 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 & 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 car is found giving wrong fuel consumption data on the label, we may consider deregistering the car 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 Petrol Passenger Cars '

^② delete as appropriate)

Proforma Letter of Application

Your ref. () in EEO/TR/03
Our ref.

Tel:

Date :

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

Dear Sir/Madam,

Application for registration to participate in Voluntary Energy Efficiency Labelling Scheme for Petrol Passenger Cars

Our company is the (manufacturer/importer/agent*) of _____ in Hong Kong. We support the introduction of 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 methodology and classification scheme;
- 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 vehicles 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 appliance fails to perform in accordance with the required standard performance as given in section 7 and this cannot be readily rectified, the Authority may order it be de-register from the scheme.

The details of information of those vehicles 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, E-mail, Contact person, Importer, Distributor, etc.

2. Product to apply for participating in the scheme:
 - Name of products, types, makes, models, countries of origin

3. Which parties will be responsible for making and fixing the Energy Label

4. Commencement date to affix label on appliance
 - Year____ , Month_____

5. Completion of the Information stated in the Energy Label for each passenger car including the following:
 - Make & Model
 - Countries of Origin
 - Passenger Car Category (refer to section 6)
 - Engine Size
 - Number of Cylinder
 - Urban Fuel Consumption (L/100km)
 - Highway Fuel Consumption (L/100km)
 - 10•15-mode Fuel Consumption (km/L)
 - Combined Fuel Consumption (HK) (L/100km for European/USA standard, or km/L for Japanese standard)
 - Annual Fuel Consumption (Litres)
 - Car Size (length x width)
 - Type of Fuel
 - Transmission Type
 - Number of Gears/Speed
 - Drive System

6. Supporting Technical Information and Calculations:
 - Test reports: -
 - Emissions of CO, CO₂ and Hydrocarbon
 - Fuel consumption for Urban and Highway cycles (Litres/100 km for European/USA standard)
 - Fuel consumption for 10•15-mode operation (km/L for Japanese standard)
 - Annual fuel consumption (Litres)

[All test reports submitted to the office should be certified true copy by appropriate organization.]

- Calculations :-
- Emission of CO, CO₂ and Hydrocarbon
 - Urban and Highway Fuel Consumption
 - 10•15-mode Fuel Consumption
 - Combined Fuel Consumption (HK)
 - Annual fuel consumption

7. Miscellaneous Technical Information:

Product information catalogue
Technical Specification
Others

8. Approval letter or exemption letter issued by the Environmental Protection Department to prove that the car model complies with the vehicle exhaust emission standards.
9. A Type Approval Certificate or Certificate of Roadworthiness issued by the Transport Department for compliance with vehicle examination requirements.

Note : Company's name and chop should be stamped on the all documents provided.

Proforma Letter of Acceptance

Your ref.
Our ref. () in EEO/TR/03

Tel:

Date :

[
Manufacturers/importers/Agents

]

Dear Sir/Madam,

Acceptance of application for registration to participate in Voluntary Energy Efficiency Labelling Scheme for Petrol Passenger Cars

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 passenger cars registered. The registered cars are as follows :

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

You are allowed to affix a specified label onto each and every car registered under the scheme. The contents of the label should be based on the information that you have provided in the 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. () in EEO/TR/03

Tel:

Date :

[

Manufacturers/importers/Agents

]

Dear Sir/Madam,

Rejection of application for registration to participate in Voluntary Energy Efficiency Labelling Scheme for Petrol Passenger Cars

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

