
The Hong Kong Voluntary Energy Efficiency Labelling Scheme for

Petrol Passenger Cars January 2025

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

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

- 2.4 Besides the above mentioned 22 types of household appliances / gas appliances and office equipment, EELS was extended to cover petrol passenger cars in 2002. The Scheme was relaunched in 2007 after increasing its flexibility in acceptable test standards. It intended to give car buyers comparative information about the fuel consumption of different models under standard test conditions.
- 2.5 Furthermore, the Scheme also aims at achieving the followings –
- (i) to make consumers aware of fuel efficiency and environment 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 are going to 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. Scope

- 3.1 The Scheme will only apply to the petrol passenger vehicle manufacturers and importers who are interested to or have participated in the Scheme.
- 3.2 The Scheme commenced from 22 February 2002. It is further revised on 1 January 2025. The existing and newly registered labels will remain valid till 31 December 2026. By then, renew of the application may be required subject to the review of the Scheme.
- 3.3 The Scheme applies to –
- (a) all motor vehicles which are used for the carriage of passengers and comprising no more than eight passenger seats in addition to the driver's seat, and having a maximum weight not exceeding 3.5 tons; and
 - (b) passenger vehicles using petrol fuel only.

- 3.4 The Scheme does not cover –
- (a) Vehicles that are used for the carriage of passengers but comprising more than eight passenger 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 the Scheme; and
 - (b) Other categories of vehicles and fuels such as diesel, liquefied petroleum gas, natural gas, electricity etc.
- 3.5 The scope of the Scheme covers all *new* registered petrol passenger vehicles imported to be sold in Hong Kong with effect from the date that is declared by the participant but does not cover second-hand cars, cars already in use, under trans-shipment or export, etc.
- 3.6 The scheme is operated as a ‘Comparison Type’ labelling system and no ranking will be assigned to each car model. All participating petrol passenger cars will be registered under this Scheme provided that they have undergone the standard tests specified in the Scheme for determining the fuel consumption.

4. Definitions

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

Authority	means the Electrical & Mechanical Services Department, the Government of the HKSAR
combined fuel consumption (HK)	means the fuel consumption determined for a vehicle by averaging the fuel consumption of the urban and highway cycle, and weighed by the factors which represent the average usage (vehicle-km) of urban roads to highways in Hong Kong condition.
Director	means the Director of Electrical & Mechanical Services Department.
fuel	means petrol fuel for passenger cars.
Government	means the Government of the HKSAR.
highway fuel	means the fuel consumed by a vehicle running on the

consumption	highways. The fuel consumption is determined using the amount of exhaust gases collected during the highway cycle of the fuel consumption test.
inspecting officer	means the officer authorized by the Director to carry out inspection on vehicles under this Scheme.
label	means the energy label that contains fuel consumption information 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 passenger car.
participants	means the manufacturers, importers or the dealers of petrol passenger cars participating in the Scheme.
passenger cars	means any motor vehicles for the carriage of passengers and comprising no more than eight passenger seats in addition to the driver's seat, and having a maximum weight not exceeding 3.5 tons.
recognized test organisation	means a vehicle test organisation 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 passenger cars.
registered car	means a car registered under the "Hong Kong Voluntary Energy Efficiency Labelling Scheme for Petrol Passenger Cars".
registration	means the process of registering a passenger car under the "Hong Kong Voluntary Energy Efficiency Labelling Scheme for Petrol Passenger Cars". This should not be confused with vehicle "registration" under Transport Department.
the/this Scheme	means the "Hong Kong Voluntary Energy Efficiency Labelling Scheme for Petrol Passenger Cars".
urban fuel consumption	means the fuel consumed by a vehicle running in the urban area. The fuel consumption is determined using the amount of exhaust gases collected during the urban cycle of the fuel consumption test.

5. Classification of Passenger Car

- 5.1 Passenger cars under the Scheme shall be classified into the following seven categories based on the cylinder capacity of the engine –

Table 1 Classification of Passenger Car

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

6. Test Methodology and Technical Standard

Test Methodology

- 6.1 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 that those 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.

6.2 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, JIS D 1012 and TRIAS 5-3-1999 of Japanese Industrial Standard, 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)

6.3 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).

6.4 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 this Scheme, the weighing factors are as follows:

% urban = 40%

% highway = 60%

Annual Fuel Consumption

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

Calculation Method

6.6 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 (HK) = combined fuel consumption (HK), in km per litre
 FC (Japan) = urban and highway fuel consumption value for this vehicle model, in km per litre

Annual fuel consumption is determined by the following equation –

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

- 6.7 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 –

$$\begin{aligned} FC_C \text{ (HK)} &= \% \text{ urban} \times (\text{urban FC}) + \% \text{ highway} \times (\text{highway FC}) \\ &= 0.4 \times (\text{urban FC}) + 0.6 \times (\text{highway FC}) \end{aligned}$$

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 -

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

- 6.8 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.

7. Energy Label

- 7.1 The energy label shall contain information on fuel consumption that has been determined in accordance with the standards and methods laid down in Section 6 of this scheme document. The energy 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.

Energy Label Location

- 7.2 The energy label shall be affixed to the bottom corner of the front windscreen on the driver's side. The information on the energy label shall be legible and shall be visible from outside of the vehicle. The energy 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

- 7.3 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 Chinese and in English.

Energy Label Quality

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

Information on the Energy Label

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

8. Testing Facilities and Test Centres

8.1 The Authority will accept the results issued by the independent test centres or by the manufacturers or importers themselves at their own testing facilities which fulfill one of the following criteria -

- (a) The test centre or testing facility 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 centre or testing facility 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 centre or testing facility 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 centre or testing facility provides alternative evidence to the satisfaction of the Authority. The evidence includes the following documents as a minimum :
 - (i) A document providing a detailed description of the test centre or testing facility 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.

9. Registration and Participation

Registration Procedures

- 9.1 All manufacturers, importers and the other parties involved in the vehicle business distribution network are welcomed 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 by means of an application letter through mail, facsimile or electronic mail. to -

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

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 passenger car participating in the Scheme should be provided with a test report issued by a recognized test centre, the manufacturer or the importer. 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 number, E-mail address, Contact person, Importer, Distributor, etc.
 - b) Vehicle to apply for participating in the Scheme
Passenger car brand names, category (refer to Section 5), number of passenger seats, makes and models, countries of origin, etc.
 - c) The parties that will be responsible for making and fixing the Energy Label;

- d) Commencement date to affix Energy Label on vehicle
Year _____, Month _____
- e) Completion of the Information stated in Energy Label for each product including the following:
- Make (in Chinese and in English)
 - Model (in Chinese and in English)
 - Country of Origin
 - Car Category (refer to Section 5)
 - 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.

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.

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 passenger cars 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 clauses 11.3, 11.4 &11.5.

- 9.7 If the application is accepted, the participants 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' car. Both manufacturer and importer of the registered vehicle should ensure that the energy label is correctly printed and affixed on the registered car 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 (proforma letter of rejection 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 & procedures set out in clauses 9.3, 9.4 and 9.5;
 - b) conduct tests via recognized test centres and to comply with the specified test methodology and classification in the Scheme;
 - c) produce and affix energy labels at his own costs;
 - d) fully inform other sales agents in his distribution network once the particular make and model of a car is registered under the Scheme;
 - e) allow random / ad-hoc inspection to be conducted by persons authorized by the Authority on registered cars at his premises;
 - 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 car fails to perform in accordance with the required standard performance 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 cars which had been de-registered from the Scheme immediately.

- 9.11 The details of the cars registered under the Scheme will be kept in a register list maintained by the Authority. The registration records and car's technical information 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 fulfill the obligations set out under clause 9.10; or
 - (b) once false or inaccurate or misleading information is given on an energy label; or
 - (c) in any other case where the Director is of the opinion that registration of the particular car is contrary to the public interest,
- the Authority may de-register the concerned car from the Scheme with immediate effect by giving the participant a notice in writing. Once the car is de-registered, energy label is not allowed to fix on it.
- 9.13 The concerned car could be de-registered even when there is no legal action taken under either the Trade Description Ordinance (Chapter 362) or the Copyright Ordinance (Chapter 528).
- 9.14 Participant who decides to discontinue participating in the Scheme or to withdraw any registered model from the registered cars 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 cars 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 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 non-participating parties from taking advantage of the Scheme by using unauthorized labels, suitable form of inspection shall be conducted on cars which have not been registered under the Scheme.

Scope

- 11.2 The scope of inspection includes sample **checking** and **testing** of the following items:-
- (b) whether the energy label on the registered car 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 information on energy label accords with record;
 - (e) whether the data submitted by the participants are correct by random re-testing and
 - (f) whether the unregistered cars display unauthorized energy labels.
- 11.3 The participants will be requested to take immediate remedial action and report of follow-up action taken if non-compliance is found on their cars.
- 11.4 For a registered car which is found with incorrect fuel consumption data on the energy label during random checking, the Authority may request the participant to conduct a separate fuel consumption test at his own cost, in accordance with the test methodology as stated in Section 6, in one of the test centres or test facilities agreed by the Authority.
- 11.5 If non-compliance is confirmed and no remedial action is to be taken by the applicant, the Authority may order it be de-registered from the Scheme. Failure to remove energy labels from the de-registered cars 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 passenger cars. 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.
- 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 passenger cars registered under the Scheme on random basis. Based on the record of the registration and resources, random inspection programmes will be developed every year.
- 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 cars showrooms. Where necessary, inspection will also be done at the 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 participant 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 performance 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 11 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

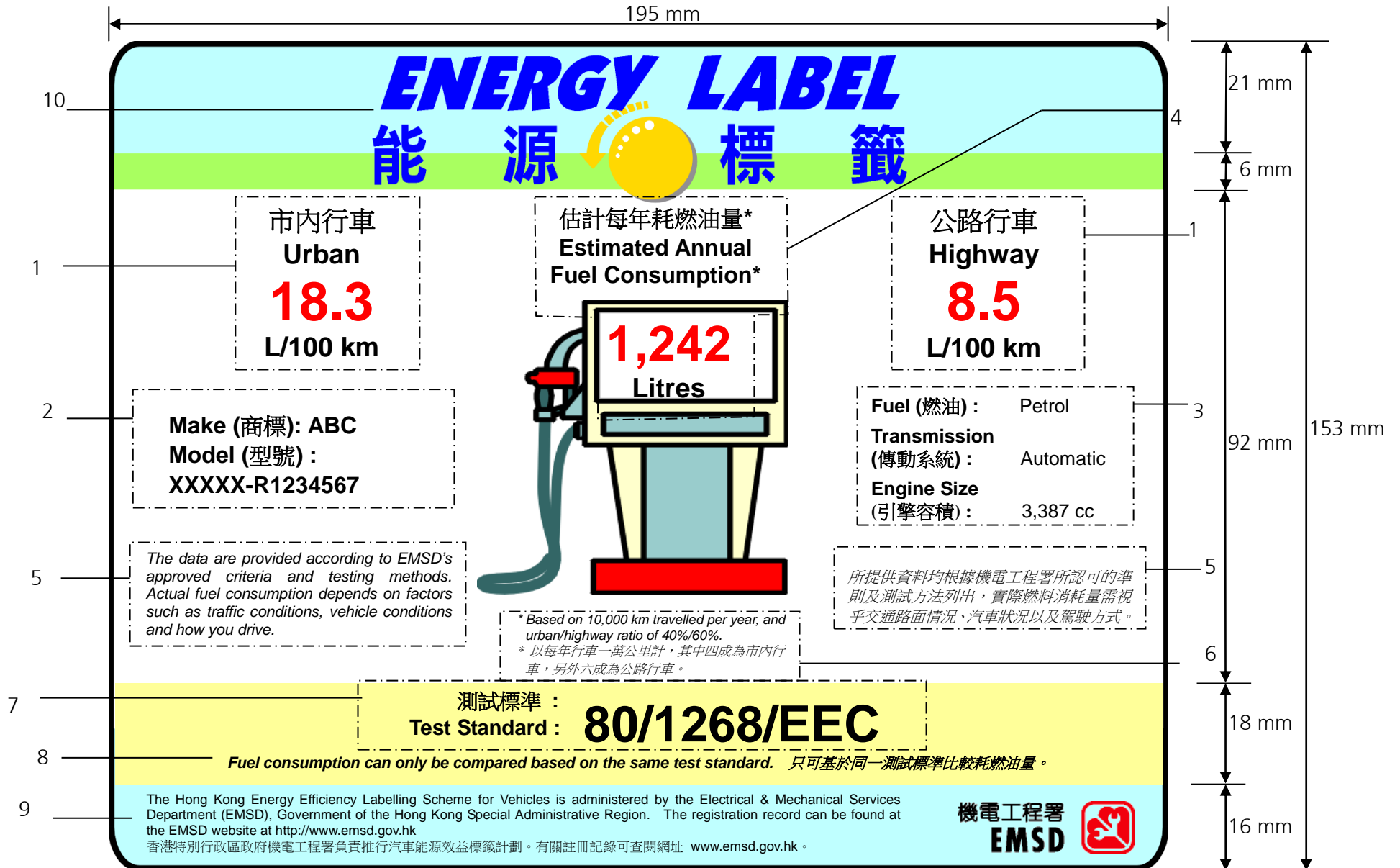
- 13.1 To ensure that the Scheme can continue to operate effectively and efficiently after its introduction, a proper system of maintenance is needed.
- 13.2 The maintenance system consists essentially of -
- (a) Continuous updating of the following relevant information of the participants in the Scheme -
 - (i) 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 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.

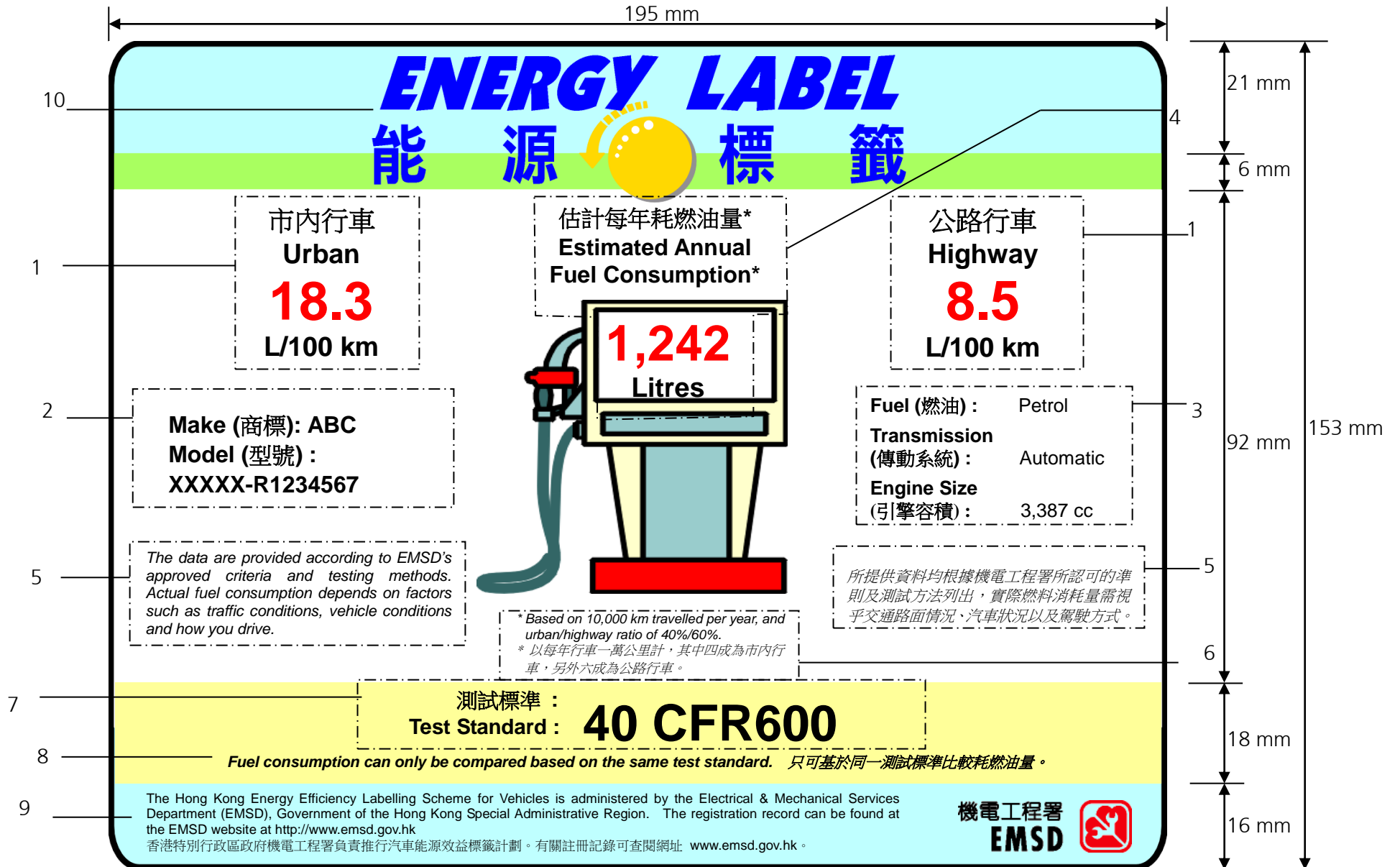
14. Future Development

- 14.1 It is hoped that following the implementation of the Scheme, the market will phase out low fuel efficient vehicles and public awareness of using fuel efficient vehicles 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 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. Eight types of prescribed products covered in the mandatory EELS are room air conditioners, refrigerating appliances, compact fluorescent lamps, washing machines, dehumidifiers, storage type electric water heaters, televisions, induction cookers LED lamps, gas cookers and gas instantaneous water heaters.

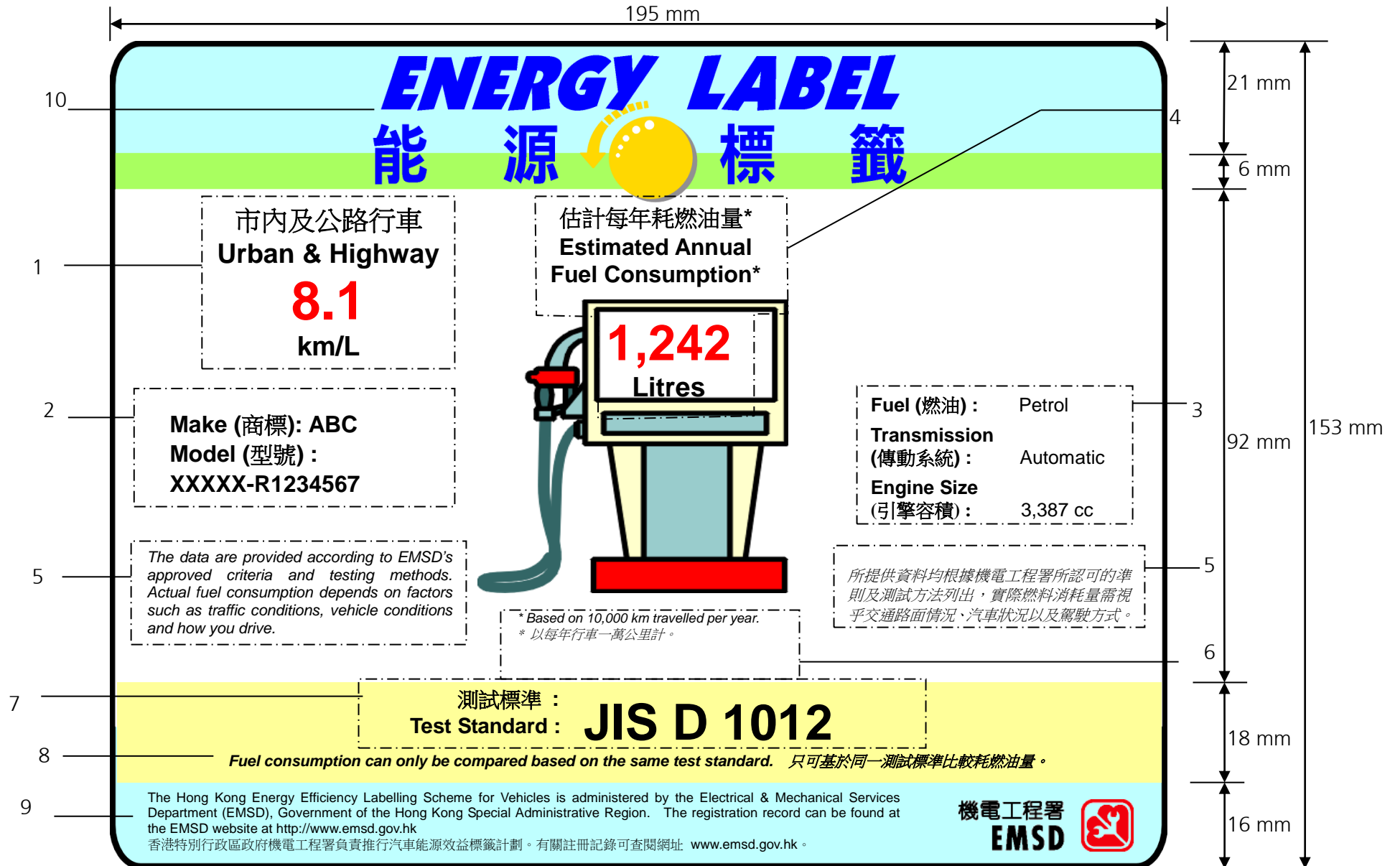
A1.1 – Label Format for Cars Tested to European Standard



A1.2 – Label Format for Cars Tested to USA Standard



A1.3 - Label Format for Cars Tested to Japanese Standard



A1.4 – Colour Schedule (EEC Standard)

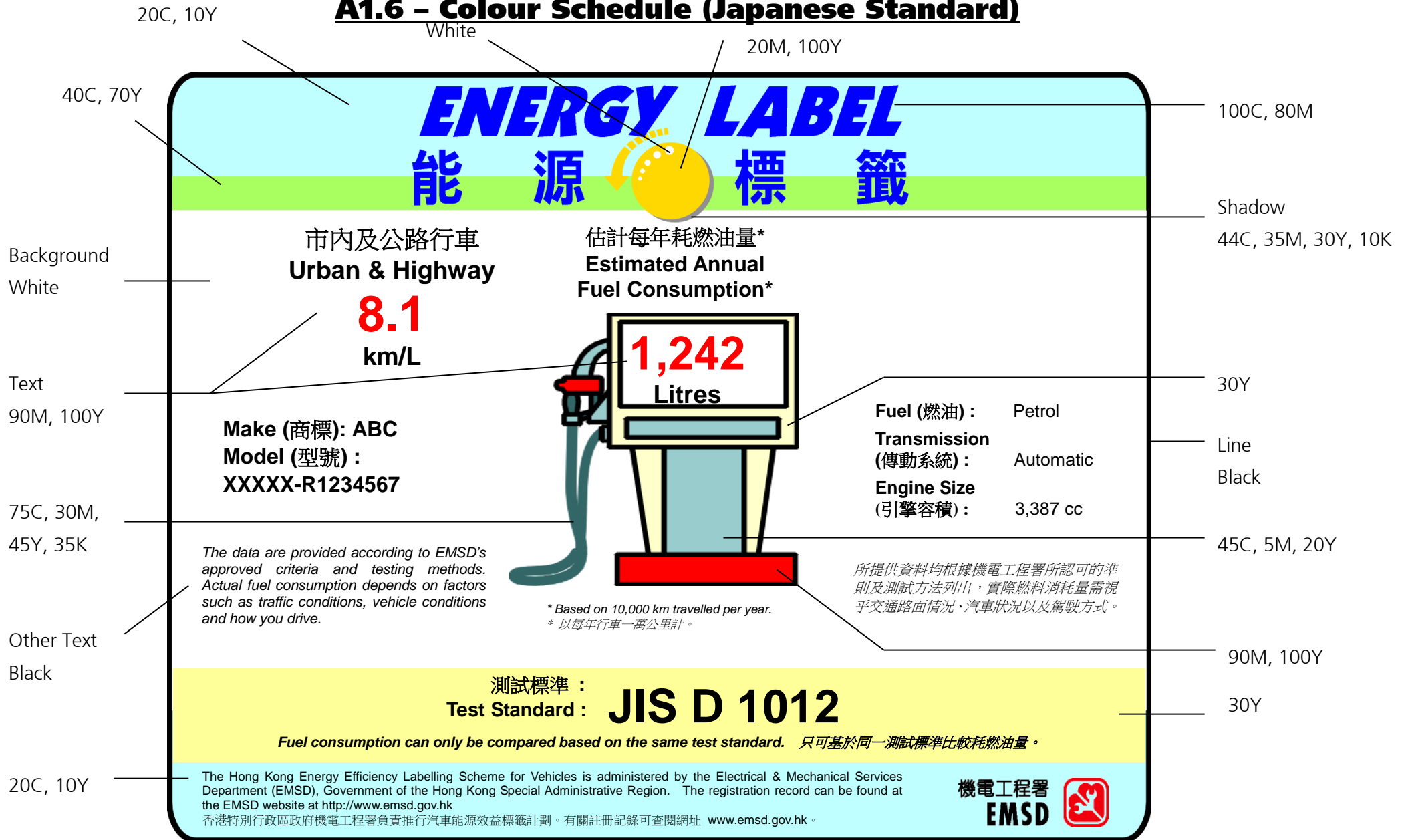
The diagram illustrates the layout and color coding of an Energy Label for petrol passenger cars. It features a central fuel pump icon with a digital display showing '1,242 Litres'. The label is divided into several sections with specific color requirements:

- Header:** 'ENERGY LABEL' in blue on a light blue background (20C, 10Y). Below it, '能源標籤' in blue on a light green background (40C, 70Y).
- Urban Fuel Consumption:** 'Urban' and '18.3 L/100 km' in red on a white background (Background White).
- Estimated Annual Fuel Consumption:** 'Estimated Annual Fuel Consumption*' and '1,242 Litres' in red on a white background (Text 90M, 100Y).
- Highway Fuel Consumption:** 'Highway' and '8.5 L/100 km' in red on a white background (Text 90M, 100Y).
- Vehicle Details:** 'Make (商標): ABC' and 'Model (型號): XXXXX-R1234567' in black on a white background (Text 90M, 100Y).
- Technical Specifications:** 'Fuel (燃油): Petrol', 'Transmission (傳動系統): Automatic', and 'Engine Size (引擎容積): 3,387 cc' in black on a white background (Text 30Y).
- Footnote:** '* Based on 10,000 km travelled per year, and urban/highway ratio of 40%/60%' and its Chinese equivalent in black on a white background (Text 90M, 100Y).
- Test Standard:** 'Test Standard: 80/1268/EEC' in black on a yellow background (Text 30Y).
- Disclaimer:** 'Fuel consumption can only be compared based on the same test standard.' in black on a yellow background (Text 30Y).
- Footer:** '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.' and the EMSD logo in black on a light blue background (Text 20C, 10Y).

Additional color and text specifications are listed on the right side of the diagram:

- 100C, 80M (Header background)
- Shadow (Header background)
- 44C, 35M, 30Y, 10K (Header background)
- Text 90M, 100Y (Urban/Highway consumption values)
- 30Y (Vehicle details and technical specifications)
- Line Black (Vehicle details and technical specifications)
- 45C, 5M, 20Y (Footnote)
- 90M, 100Y (Test Standard and Disclaimer)
- 30Y (Test Standard and Disclaimer)

A1.6 - Colour Schedule (Japanese Standard)



**The Hong Kong Voluntary Energy Efficiency Labelling
Scheme for Petrol Passenger Cars
Energy Label Format**

Annex 1

A1.7 – 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 A1.

Table A1 : 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 A1.4 to A1.6, the colour schedule.

Proforma Letter of Invitation

Our ref. () EMSD/EEO/TR/03
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 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 petrol 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 petrol passenger cars 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 petrol passenger car is found to be non-compliant, we may consider deregistering the petrol passenger 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. () EMSD/EEO/TR/03
Our ref.

Tel.
Date

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

Dear Sir/Madam,

Application for Registration 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 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 test centres 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 petrol passenger car (s) at my premises;
- iv) conduct re-test(s) at my own costs at some recognized test centres, 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 petrol passenger car fails to perform in accordance with the required standard performance as given in Section 6 and this cannot be readily rectified, the Authority may order it be de-registered from the Scheme.

The details of information of those petrol passenger cars which we intend to register with the Authority are shown in the attached document (Annex 4), and are submitted herewith for your vetting.

Yours faithfully,

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

* *delete as appropriate*

Information to be submitted to Energy Efficiency Office

1. Information on the Company:
Name, Address, Telephone number, Fax, Email address, Contact person, Importer, Distributor, etc.
2. Product to apply for participating in the Scheme:
Name of products, types, make & model, countries of origin
3. Parties will be responsible for making and fixing the Energy Label.
4. Commencement date to affix Energy Label on petrol passenger car
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 5)
 - 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. Detailed test report with calculations providing at least the following relevant technical data for the participating petrol passenger car –
 - 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)

7. Miscellaneous Technical Information:
 - Product information catalogue;
 - Technical Specifications; and
 - 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.
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/TR/03

Tel:

Fax:

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 certificate(s) petrol passenger car registered.

The registered petrol passenger car(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 petrol passenger car 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/TR/03
Your ref.

Tel.
Fax.
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. _____,
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 Petrol Passenger Cars**
Flow Chart of Registration

