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Our ref VE/10/2017  
Your ref  
DID 6553 5643 Fax 6553 5329

The President  
Motor Traders Association of Singapore  
(Fax: 6909 3020)

The President  
Singapore Vehicle Traders Association  
(Fax: 6747 1010)

The President  
Automobile Importer & Exporter Association, Singapore  
(Fax: 6746 1555)

All Motor Vehicle Dealers / Importers

Dear Sir / Madam

## **VEHICULAR EMISSIONS SCHEME**

1. As announced at the Ministry of the Environment and Water Resources (MEWR)'s 2017 Committee of Supply Debate, the National Environment Agency (NEA) will introduce the Vehicular Emissions Scheme (VES) to replace the Carbon Emissions Based Vehicle Scheme (CEVS) for all new cars, taxis and newly imported used cars with effect from 1 January 2018.

### Requirements on Printed Advertisements and Promotional Materials

2. The requirements for printed promotional materials have been reviewed taking into consideration feedback from key stakeholders in the industry. When the VES is implemented on 1 January 2018, all printed promotional materials such as newspaper advertisements, sales brochures and handouts used for marketing, advertising or promotion of any new car, taxi and newly imported used car for sale locally shall include the following information:

- a. the fuel consumption (in litres/100km) or electric energy consumption (in kWh/100km), or both for the combined driving cycle of the motor vehicle; and
- b. VES banding (i.e. A1, A2, B, C1, C2) of the motor vehicle.

3. All motor dealers are encouraged to put up information about your vehicle's CO<sub>2</sub>, CO, HC, NO<sub>x</sub>, PM emissions on your websites for reference by your customers/car buyers.

### VES data for Cars

3. We would like to remind all motor dealers that from 1 January 2018, all cars must meet the VES requirements and have approved values in VITAS for CO<sub>2</sub>, CO, HC and NO<sub>x</sub> before they can be registered. The VACs of all cars that do not meet the abovementioned VES requirements and do not have approved emission values would be obsoleted on 31 December 2017. They can no longer be used for vehicle registration. Hence, motor dealers have to ensure that their vehicles can meet the VES requirements before applying for approval in VITAS.

### New VES Label

4. A new VES label will replace the current FELS labels for cars. All cars are required to be affixed with the VES label (on the front windscreen) when they are displayed for sale from 1 January 2018. The VES label will be available for download in an applicant's VITAS account by the end of December 2017. An application fee of \$70 (inclusive of GST) will be charged from 1 January 2018 per VES label during VITAS application.

5. The FELS labels and application fee of \$37 (inclusive of GST) will remain unchanged for light goods vehicles.

### CO<sub>2</sub> Calculation for Plug-in Hybrid Electric Vehicles (PHEVs) under VES

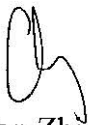
6. We have revised the methodology for calculating the CO<sub>2</sub> emission values for PHEVs under the VES. The revised methodology, which is in line with UNECE Regulation No. 101<sup>1</sup> is as follows:

**Equivalent CO<sub>2</sub> emission of a PHEV = (Weighted Electrical Energy Consumption of the electric power train X an Emission Factor<sup>2</sup> of 0.4) + (Weighted CO<sub>2</sub> Emission of the internal combustion engine)**

7. Please bring the contents of this circular to the attention of your members. If you have any enquiry or require any assistance, you may contact Mr Eu Ai Ming on 6553 5400 or Mr Han Hang Kwang on 6553 5263.

Thank you.

Yours sincerely



Mr Tan Zhi Chiang  
Deputy Director, Vehicle Approval and Control  
Vehicle Engineering Division  
Vehicle Services Group

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<sup>1</sup> UNECE R101 factors in the electric range of the PHEV to calculate the weightage between electric energy use from the electric power train and the CO<sub>2</sub> emissions of the internal combustion engine.

<sup>2</sup> The Emission Factor is fixed at 0.4 g CO<sub>2</sub>/Wh of electricity from 1 July 2017 to 31 December 2019.