

ARTICLE 5

5.1 Any motorcycle manufactured or imported by any entity shall comply with the following Energy Efficiency Standards:

Class of vehicles engine displacement (cubic centimeters)	Energy Efficiency Standards (kilometers/liter)
Below 50	48.2
Over 50 to 100	40.6
Over 100 to 150	38.0
Over 150 to 250	28.0
Over 250 to 500	21.1
Over 500 to 750	16.6
Over 750 to 1000	15.8
Over 1000 to 1250	14.7
Over 1250 to 1500	13.1
Over 1500	12.8

5.2 The combined energy efficiency value for motorcycles is calculated by the following equation:

$$\text{Combined energy efficiency value (kilometers/liter, km/L)} = \frac{1}{\frac{0.6}{\text{Urban energy efficiency (km/L)}} + \frac{0.4}{\text{Constant speed energy efficiency (km/L)}}$$

5.3 Effective from Jan.1, 2016 for manufactured or imported motorcycles by any entity to apply for vehicle type fuel economy certificates shall comply with the following requirements:

5.3.1 The sales weighted average energy efficiency value of the manufacturer sold vehicles shall be higher than the required sales weighted average energy efficiency target value.

5.3.2 The Sales Weighted Average Energy Efficiency Limits corresponding to different vehicle types prescribed by the required sales weighted average energy efficiency target value are as follows.

5.3.2.1 The Sales Weighted Average Energy Efficiency Limits effective from Jan. 1, 2016 till Dec. 31, 2021:

Class of vehicle's engine displacement (cubic centimeters)	Sales Weighted Average Energy Efficiency Limits (kilometers/liter)
Below 50	54.5
Over 50 to 100	46.7
Over 100 to 150	43.8
Over 150 to 250	31.0
Over 250 to 500	26.5

Over 500 to 750	18.7
Over 750 to 1000	18.1
Over 1000 to 1250	15.8
Over 1250 to 1500	14.7
Over 1500	14.1

5.3.2.2 The Sales Weighted Average Energy Efficiency Limits effective from Jan. 1, 2022:

Class of vehicle's engine displacement (cubic centimeters)	Sales Weighted Average Energy Efficiency Limits (kilometers/liter)
Below 50	61.0
Over 50 to 100	52.3
Over 100 to 150	48.2
Over 150 to 250	34.1
Over 250 to 500	28.1
Over 500 to 750	19.8
Over 750 to 1000	19.2
Over 1000 to 1250	16.7
Over 1250 to 1500	15.6
Over 1500 to 1750	14.9
Over 1750 to 2000	14.3
Over 2000	13.8

5.3.3 The sales weighted average energy efficiency value and sales weighted average energy efficiency target value prescribed in Subparagraph 5.3.1 shall be calculated by using the following formula:

5.3.3.1 The sales weighted average energy efficiency value:

$$\text{Sales weighted average energy efficiency value(km/L)} = \frac{\sum_{i=1}^N V_i \times W_i}{\sum_{i=1}^N \frac{V_i}{FC_i}}$$

i: manufactured or imported vehicle type's sequence number.

FCi: energy efficiency test value (km/liter) for manufactured or imported vehicle type i.

Vi: sales number (units) of manufactured or imported vehicle type i.

Wi : Correspond Credit Multiplier for Vehicle Type i.

5.3.3.2 The sales weighted average energy efficiency target value:

$$\text{Sales weighted average energy efficiency target value(km/L)} = \frac{\sum_{i=1}^N V_i}{\sum_{i=1}^N \frac{V_i}{T_i}}$$

i: manufactured or imported vehicle type's sequence number.

Ti: Sales Weighted Average Energy Efficiency Limits (km/liter) of the manufactured or imported vehicle type i in accordance with Subparagraph 5.3.2 of this Article.

Vi: sales number (units) of manufactured or imported vehicle type i.

- 5.3.4 The calculation of sales weighted average energy efficiency value and sales weighted average energy efficiency target value for vehicle entity with combined reporting or end of their combined reporting, the qualification for using annual sales weighted average energy efficiency value calculation and credit accumulation, and the handling process for vehicle entities failed to comply with their required annual sales weighted average energy efficiency target value shall be in accordance with stipulations in Article 4.
- 5.3.5 For electric motorcycles being sold by the vehicle entity, the sales may be multiplied by 2.5 then being used for the calculation of sales weighted average energy efficiency value, and the previous provisions are also applicable. The energy efficiency test value for electric vehicle shall be rated by the competent authority in other provisions.