
Changes to legislation: There are outstanding changes not yet made to Regulation (EU) 2019/1242 of the European Parliament and of the Council. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

Regulation (EU) 2019/1242 of the European Parliament and of the Council of 20 June 2019 setting CO2 emission performance standards for new heavy-duty vehicles and amending Regulations (EC) No 595/2009 and (EU) 2018/956 of the European Parliament and of the Council and Council Directive 96/53/EC (Text with EEA relevance)

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ANNEX I

Average specific CO₂ emissions, specific CO₂ emissions targets and excess CO₂ emissions

5. EMISSION CREDITS AND EMISSION DEBTS REFERRED TO IN ARTICLE 7

5.1. CO₂ emissions reduction trajectory for emission credits

For each manufacturer and each reporting period of the years Y from 2019 to 2030, a CO₂ emissions reduction trajectory (ET_Y) is defined as follows:

$$ET_Y = \sum_{sg} share_{sg} \times MPW_{sg} \times R - ET_Y \times rCO_{2sg}$$

where:

\sum_{sg} is the sum over all vehicle sub-groups;
 $share_{sg}$ is the share of new heavy-duty vehicles in the vehicle sub-group *sg* as determined in point 2.4;
 MPW_{sg} is the mileage and payload weighting factor as determined in point 2.6;
 rCO_{2sg} is the reference CO₂ emissions as determined in point 3;
 $R - ET_Y$ is defined as follows:

for the reporting periods of the years Y from 2019 to 2025:

$$R - ET_Y = (1 - rf_{2025}) + rf_{2025} \times (2025 - Y) / 6$$

and, for the reporting periods of the years Y from 2026 to 2030:

$$R - ET_Y = (1 - rf_{2030}) + (rf_{2030} - rf_{2025}) \times (2030 - Y) / 5$$

rf_{2025} and rf_{2030} are the CO₂ emissions reduction targets (in %) applicable for the reporting periods of the years 2025 and 2030, respectively.

5.2. Emission credits and emission debts in each reporting period

For each manufacturer and each reporting period of the years Y from 2019 to 2029, the emission credits (cCO_{2Y}) and emission debts (dCO_{2Y}) (shall be calculated as follows:

If $CO_{2Y} < ET_Y$:

$$cCO_{2Y} = (ET_Y - CO_{2Y}) \times V_Y \text{ and}$$

$$dCO_{2Y} = 0$$

If $CO_{2Y} > ET_Y$ for the years 2025 to 2029:

$$dCO_{2Y} = (CO_{2Y} - ET_Y) \times V_Y \text{ and}$$

$$cCO_{2Y} = 0$$

In all other cases dCO_{2Y} and cCO_{2Y} are set to 0.

where:

ET_Y is the manufacturer's CO₂ emissions reduction trajectory in the reporting period of the year Y determined in accordance with point 5.1;
 CO_{2Y} is the average specific CO₂ emissions of the manufacturer in the reporting period of the year Y determined in accordance with point 2.7;
 T_Y is the manufacturer specific CO₂ emissions target in the reporting period of the year Y determined in accordance with point 4;

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V_Y is the number of new heavy-duty vehicles of the manufacturer in the reporting period of the year Y, excluding vocational vehicles, in accordance with point (a) of the first paragraph of Article 4.

5.3. Emission debt limit

For each manufacturer the emission debt limit ($limCO_2$) is defined as follows:

$$limCO_2 = T_{2025} \times 0,05 \times V_{2025}$$

where:

T_{2025} is the manufacturer specific CO₂ emissions target in the reporting period of the year 2025 determined in accordance with point 4;

V_{2025} is the number of new heavy-duty vehicles of the manufacturer in the reporting period of the year 2025, excluding vocational vehicles, in accordance with point (a) of the first paragraph of Article 4.

5.4. Emission credits acquired before the year 2025

Emission debts acquired for the reporting period of the year 2025 shall be reduced by an amount ($redCO_2$) corresponding to the emission credits acquired prior to that reporting period, which is determined for each manufacturer as follows:

$$redCO_2 = \min \left(dCO_2_{2025}; \sum_{Y=2019}^{2024} cCO_2Y \right)$$

where:

\min is the minimum of the two values mentioned between the brackets;

$\sum_{Y=2019}^{2024}$ is the sum over the reporting periods of the years Y from 2019 to 2024;

dCO_2_{2025} is the emission debts for reporting period of the year 2025 as determined in accordance with point 5.2;

cCO_2Y is the emission credits for the reporting period of the year Y as determined in accordance with point 5.2.

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Changes and effects yet to be applied to the whole legislation item and associated provisions

- Annex 2 Pt. 2 words inserted by S.I. 2022/1361 reg. 16(9)
- Art. 3(9) words inserted by S.I. 2022/1361 reg. 16(3)(a)
- Art. 3(10) substituted by S.I. 2022/1361 reg. 16(3)(b)
- Art. 3(11) words inserted by S.I. 2022/1361 reg. 16(3)(c)(i)
- Art. 3(11) words inserted by S.I. 2022/1361 reg. 16(3)(c)(ii)
- Art. 3(16)-(21) inserted by S.I. 2022/1361 reg. 16(3)(d)
- Art. 8(1)(a) sum substituted by S.I. 2020/1402 reg. 8(2)(b)
- Art. 8(1)(b) sum substituted by S.I. 2020/1402 reg. 8(2)(c)
- Art. 11(1)(a) word substituted by S.I. 2020/1402 reg. 11(2)(b)
- Art. 11(1)(b) word substituted by S.I. 2020/1402 reg. 11(2)(c)
- Art. 11(1)(d) word substituted by S.I. 2020/1402 reg. 11(2)(d)
- Art. 11(1)(f) word substituted by S.I. 2020/1402 reg. 11(2)(e)(i)
- Art. 11(1)(f) words substituted by S.I. 2020/1402 reg. 11(2)(e)(ii)
- Art. 15(2)(b) words substituted by S.I. 2022/1361 reg. 16(8)(a)
- Art. 15(2)(d) words inserted by S.I. 2022/1361 reg. 16(8)(b)
- Art. 15(2)(e) words omitted by S.I. 2020/1402 reg. 15(3)
- Art. 15(2)(g) words substituted by S.I. 2022/1361 reg. 16(8)(c)