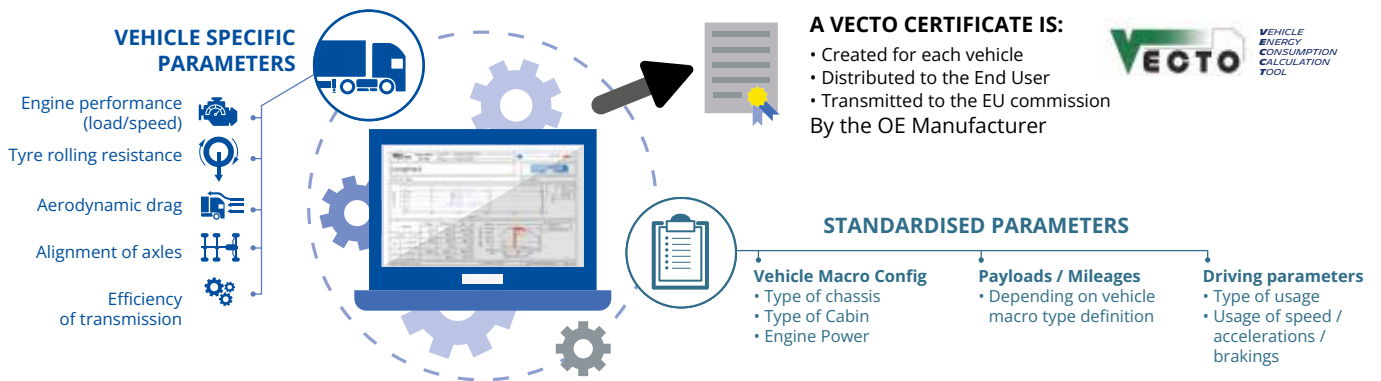




WHAT ABOUT VECTO?

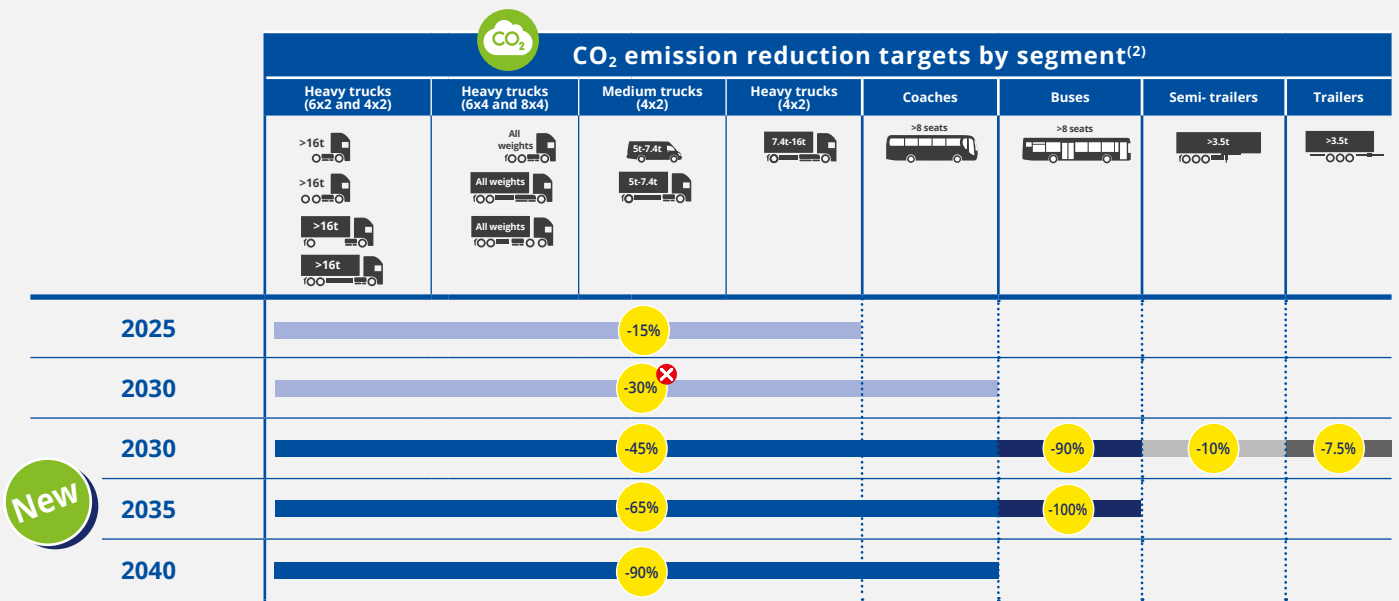
The aim of European regulation for Heavy-duty vehicles is to reduce CO₂ emissions and help the road transport sector to combat climate change. Heavy-duty Vehicles produce over 6% of total EU green house gas emissions⁽¹⁾.

- > VECTO is the new simulation tool that has been developed by the European Commission and is used for determining CO₂ emissions and Fuel Consumption from Heavy Duty Vehicles.
- > All new vehicles registered in the EU must be accompanied by a VECTO certificate that is based on data entered by the manufacturer when leaving the factory.



WHO IS CONCERNED?

THE EU REVISES ITS TARGETS FOR REDUCING CO₂ EMISSIONS UPWARDS



(1) Source: European Environment Agency (EEA).

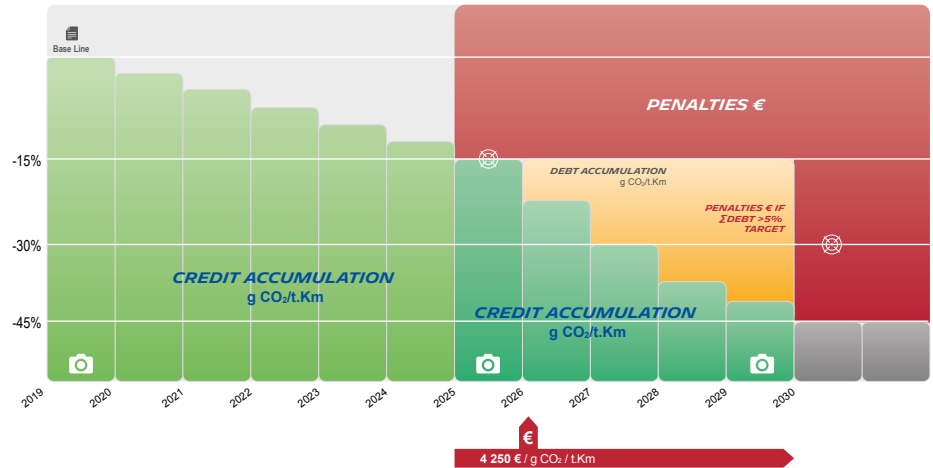
(2) With a base line for Trucks (2019) and for Coaches, Buses, Semi-trailers & Trailers (2024) and considering energy efficiency targets for trailers & semi-trailers.

WHAT IMPACT ON OE MANUFACTURERS AND FLEETS?

VECTO'S GOAL IS TO BOOST A CO₂ EMISSIONS REDUCTION BY CHALLENGING OE MANUFACTURERS

> From July 2025, manufacturers will be subject to penalties if their vehicles do not comply with the VECTO standard and the severity will increase from 2025. The amount of the penalty will be determined by their level of CO₂ emissions.

CO₂ emission and fuel consumption are strongly linked. Tyre rolling resistance is one of the major parameters that impact the fuel consumption and so CO₂ emission during usage phase.



> Road toll rates are based on the VECTO classification. EU Member States are required to set different road tax rates according to a truck's CO₂ emission class, as determined by the VECTO classification. As a result, tax/toll rates will rise considerably, particularly for diesel and gas-powered trucks.

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