

**HOW TO OPTIMISE YOUR NEW GENERATION DAF AND GAIN VECTO BENEFITS**

# The power of efficiency



As more and more countries introduce CO<sub>2</sub> elements in their road taxes, fuel efficiency is more relevant than ever. Due to their best-in-class aerodynamics and efficient powertrains, New Generation DAF vehicles are available in the most favourable CO<sub>2</sub>-classes. This enables the customer to gain financial benefits not only on fuel, but also on road taxes. If specified correctly now, CO<sub>2</sub> benefits for your New Generation DAF truck will last for at least six years!



## What is VECTO?

To encourage vehicle manufacturers to decrease CO<sub>2</sub> emissions of their products, the European Union has commissioned new regulations. This has resulted in the Vehicle Energy Consumption Calculation Tool (VECTO), calculating emission values for each sold vehicle.

The objective set by the EU for manufacturers is to reduce their overall fleet CO<sub>2</sub> emissions by 15% by 2025, relative to the reference value set during the period from 1 July 2019 to 30 June 2020. While manufacturers have to reduce CO<sub>2</sub> emission, this also means equivalent fuel efficiency gains for customers.

## EU's CO<sub>2</sub> classes

After the introduction of VECTO regulations for manufacturers, the EU also introduced a system to regulate road taxes based on CO<sub>2</sub> values. If countries or regions want to make CO<sub>2</sub> count against the road taxes, they will have to do it according to the EU's CO<sub>2</sub> classes. This system contains five classes:

- Class 5: Zero emission vehicles
- Class 4: Low CO<sub>2</sub> emission vehicles (50% below reference)
- Class 3: CO<sub>2</sub> 8% below reference value
- Class 2: CO<sub>2</sub> 5% below reference value
- Class 1: Vehicles not classified in another class

The classes are based on CO<sub>2</sub> reference values, set by the average over all trucks determined in 2019 and dropping every year in line with EU's targets. The references for classes 2 and 3, which are realistically achievable for purely diesel-powered vehicles and for all DAF New Generation trucks, can be found below. Limits are valid from 1 July of the first year until 30 June of the next. Your salesperson can help you specifying a DAF vehicle for a specific CO<sub>2</sub> class.

| Vehicle group   |              |          |             | Class 2 |         | Class 3  |         |
|---|--------------|----------|-------------|---------|---------|----------|---------|
|   |              | Day cab  | Sleeper cab | 2024/25 | 2025/26 | 2024/25  | 2025/26 |
|  | <b>4-UD</b>  | < 170 kW | < 170 kW    | 255,385 | 248,088 | 247,3202 | 240,254 |
|   | <b>4-RD</b>  | > 170 kW | < 265 kW    | 163,889 | 159,207 | 158,714  | 154,179 |
|   | <b>4-LH</b>  | None     | > 265 kW    | 88,079  | 85,563  | 85,298   | 82,861  |
|  | <b>5-RD</b>  | All      | < 265 kW    | 69,825  | 67,83   | 67,62    | 65,688  |
|   | <b>5-LH</b>  | -        | > 265 kW    | 47,049  | 45,705  | 45,563   | 44,261  |
|  | <b>9-RD</b>  | All      | -           | 92,252  | 89,616  | 89,339   | 86,786  |
|   | <b>9-LH</b>  | -        | All         | 55,712  | 54,164  | 52,454   | 50,955  |
|  | <b>10-RD</b> | All      | -           | 71,187  | 69,21   | 67,024   | 65,109  |
|   | <b>10-LH</b> | -        | All         | 48,429  | 47,045  | 46,899   | 45,559  |

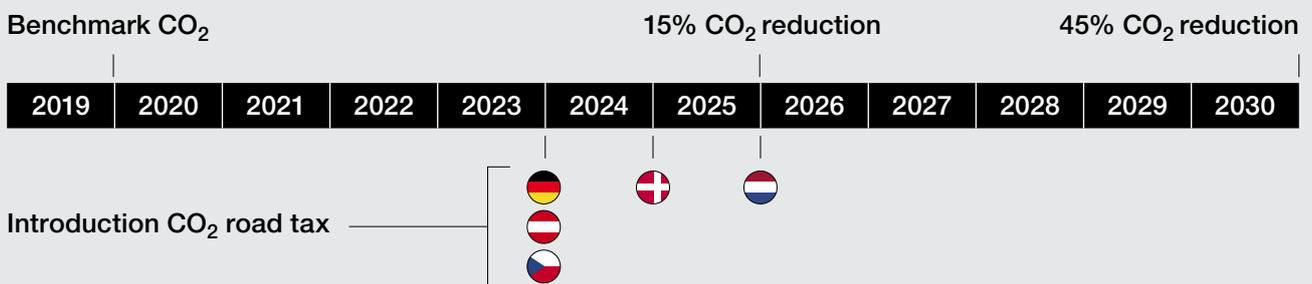
Values are in gramme CO<sub>2</sub> per tonne kilometre (g/tkm)

## Cost impact of VECTO

Once your CO<sub>2</sub> class has been determined, this classification is valid for 6 years, which means the owner of the vehicle will enjoy its CO<sub>2</sub> benefits for six years after production. These rights will transfer with the vehicle when it is sold. Below you can find the cost and potential savings in € cents/kilometre for CO<sub>2</sub> classes 2 and 3, respectively. Calculations are based on a 4x2 tractor (5-LH) (load cycle 34 tonnes) combination.

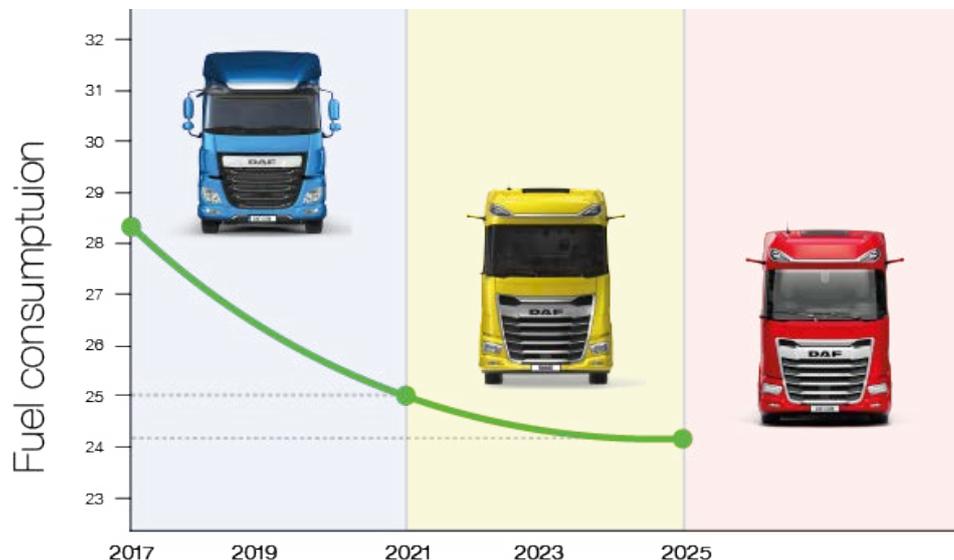
| € cents / km   | Germany       | Austria       | Czech         | Denmark       | The Netherlands* |
|----------------|---------------|---------------|---------------|---------------|------------------|
| <b>Class 1</b> | 34,80         | 47,30         | 11,85         | 17,55         | 17,20            |
| <b>Class 2</b> | 34,00 (-0,80) | 47,05 (-0,25) | 11,75 (-0,10) | 15,86 (-1,69) | 15,90 (-1,30)    |
| <b>Class 3</b> | 33,20 (-1,60) | 46,93 (-0,37) | 11,64 (-0,21) | 14,17 (-3,38) | 14,40 (-2,80)    |

\* Projected costs for potential introduction in The Netherlands (not confirmed yet)



## DAF's efficiency mindset

With the introduction of the New Generation DAF, fuel efficiency and CO<sub>2</sub> emissions have dropped dramatically. Benefitting from the excellent aerodynamic properties of the revolutionary new cab design as well as the introduction of camera systems, improved driveline efficiency, and various other improvements. DAF has improved fuel efficiency by over ten per cent. With the introduction of the updated New Generation DAF for 2025, another 3% improvement was realised. Additionally, DAF has elected to make all efficiency options part of the base specification, fortifying our intentions to improve fuel efficiency and reduce CO<sub>2</sub> emissions in the future.



# Best practices for optimal configuration

There are a number of mandatory options (if available for your vehicle model) that are required to reach the maximum VECTO score and maximise fuel efficiency gains.

## Aerodynamic options

- Roof air deflector
- 03419 - Side collars (best with extensions)
- 01122 - Side Skirts (best in combination with steel rims)
- 01362 - DAF Digital Vision System
- 02952 - Bottom plate aero

-7%  
-10%

## Tyres

- A-label

-4.9%

## Brake system

- 02366 - MX Engine brake
- 03150 - Compressor 2 cylinders with clutch

-0.4%

## Rear axle

- 09302 - 2.05 i.c.w. MX-13 engine
- 09303 - 2.21 i.c.w. MX-11 engine
- 02810 - 4.11 i.c.w. PX-7 engine

-0.5%

## Predictive cruise control

-2.0%



## Summary

- VECTO is the tool from the EU to bring CO<sub>2</sub> emissions down for all OEM's
- EU target for 2025: -15% compared to 2019
- EU target for 2030: -43% compared to 2019
- Vehicles in the EU are taxed with additional CO<sub>2</sub>-related road taxes
- Regulations apply to 4x2 and 6x2 vehicles over 16 tonnes GVW
- CO<sub>2</sub> classes 2 and 3 offer road tax discounts
- New Generation DAF trucks are eligible for CO<sub>2</sub> road tax discount
- CO<sub>2</sub> classes (and respective road tax discount) are valid 6 years from registration
- Definitive CO<sub>2</sub> value communicated on CoC document