



MODULE 2: THE CLEAN VEHICLES DIRECTIVE (CVD)



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INTRODUCTION TO THE DIRECTIVE

Main aims:

- To stimulate the market for **clean** and **energy efficient** road transport vehicles
- To influence the market for standardised vehicles produced in larger quantities by ensuring a level of demand for such vehicles - **sufficiently large** to encourage manufacturers and the industry to **invest** in vehicles with low **energy** consumption, **CO₂** and **pollutant** emissions, since this would have a substantial environmental impact.



SCOPE OF THE DIRECTIVE

Organisations required to comply:

- Those contracting authorities or entities obliged to follow the EU Procurement Directives
- Private operators of public transport services performing a public service contract – primarily bus operators



SCOPE OF THE DIRECTIVE

Vehicles required to comply:

- Road transport vehicles:
 - Light duty vehicles (cars, vans)
 - Heavy duty vehicles (buses, trucks, refuse trucks)

Exempt vehicles:

- Vehicles running on tracks (trams and trains)
- Specialist road vehicles (determined by Member State)
 - For use by armed services, civil defence, fire services/ for use on construction sites/ mobile machinery.



REQUIREMENTS OF THE DIRECTIVE

The following aspects must be taken into account when purchasing road vehicles:

- Energy consumption
- CO₂ emissions
- NO_x emissions
- NMHC (non-methane hydrocarbons)
- Particulate Matter (PM)



OPTIONS FOR IMPLEMENTATION

Taking energy consumption & environmental impact into account can be done in 3 ways:

- **Option 1** – Set **technical specifications** for energy and environmental performance
- **Option 2** – Include these impacts as **award criteria**
- **Option 3** – Include energy and environmental impacts by monetising them and calculating an “**operational lifetime cost**” (OLC)
- Or use a **combination** of these approaches



OPTION 1: TECHNICAL SPECS

Setting maximum thresholds for climate & air pollutants and/or fuel consumption

- E.g. Small Vehicles must meet the highest current Euro standard and consume a maximum of X l/100km of fuel and emit X gCO₂/km





OPTION 2: AWARD CRITERIA

Awarding points for low levels of climate & air pollutants and/or fuel consumption

- E.g. 40% of points awarded for ‘quality’ criteria including low fuel consumption and pollutant emissions





OPTION 3: OPERATIONAL LIFETIME COSTS

Monetising energy and climate impacts

- The precise methodology prescribed by the Clean Vehicle Directive must be used
- 🔍 Clean Fleets Guide: Procuring clean and efficient road vehicles & Module 4 of this training session.

CO ₂	NO _x	NMHC	PM
0,03-0,04 €/kg	0,0044 €/g	0,001 €/g	0,087 €/g



OPTION 3: OPERATIONAL LIFETIME COSTS

- It monetises energy consumption, CO₂ and pollutant emissions (PM, NMHC, NO_x)
- It is **prescriptive** – you must calculate it exactly as laid out by the CVD
- To be used correctly it should NOT be converted into points or used as part of a weighting that is separate from the financial costs –
 - It calculates a **monetary value** which should be added to the financial costs of the purchase