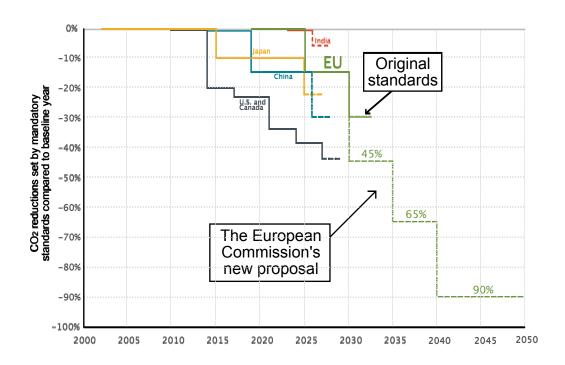
Analyzing Europe's CO₂ standards proposal for trucks and buses

Eamonn Mulholland Feb 21st 2023

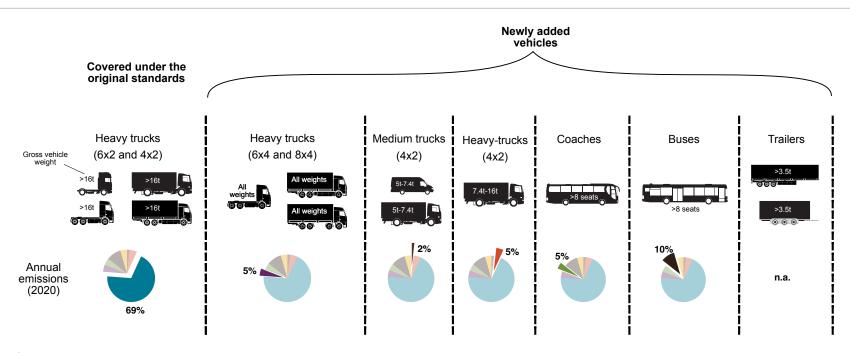


Europe's new heavy-duty CO₂ standards





What's covered





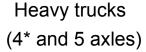
What's not covered

Light trucks (4x2)

Heavy trucks (4x4)

Vocational vehicles

Heavy trucks (6x6)



All weights





All weights



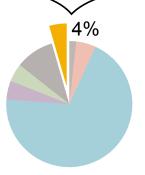






*excluding 8x4

Annual emissions (2020)





The new targets

	2030	2035	2040	
Trucks	43%	64%	90%	
Coaches	43%	64%	90%	
Buses	100%	100%	100%	
Semi-trailers	15%	15%	15%	
Drawbar trailers	7.5%	7.5%	7.5%	

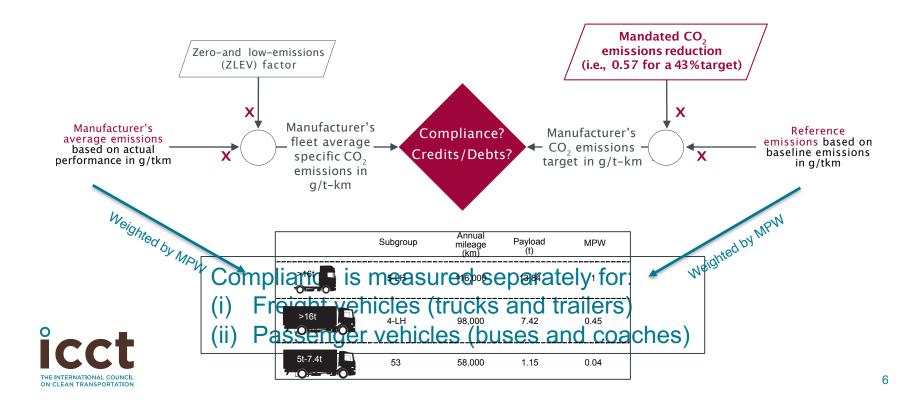
Reference periods:

Previously regulated trucks – 2019/2020

All newly added vehicles – 2024/2025



Compliance



Flexibilities – the ZLEV incentive

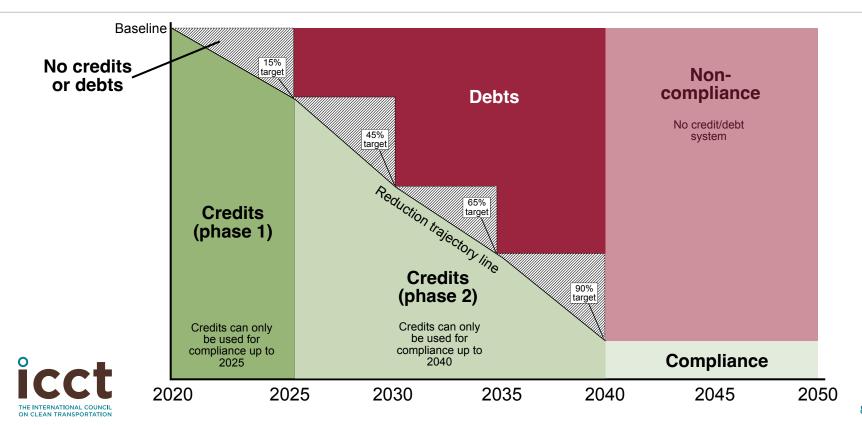
From 2019 – 2024 Super-credits phase:

- No minimum sales requirement
- Zero emission vehicles are double counted
- ZLEV factor reduces fleet emissions by up to 3%

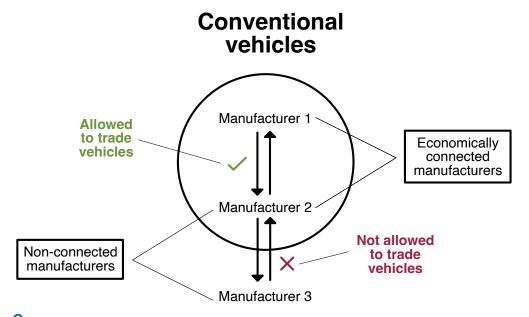
From 2025 – 2029 Benchmark phase:

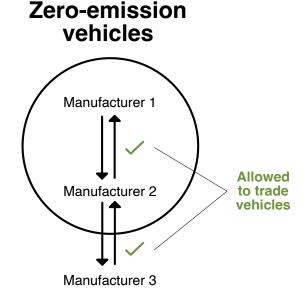
- Minimum ZLEV share of 2%
- Zero emission vehicles are single counted
- ZLEV factor reduces fleet emissions by up to 3% (with a share of up to 5%)

Flexibilities – The credit and debt system



Flexibilities – vehicle trading







Changes in definition: Zero-emission vehicles

Currently:

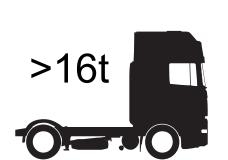
Proposal:



≤ 5gCO₂/tkm
(10% of the emissions of a standard tractor-trailer)



Changes in definitions: Long-haul vehicles



Cab type	Engine power	Operational range	Sub-group	MPW
Day cab	All	All	Regional delivery	0.45
Sleeper cab	<265kW	All		
	≥265kW	<350km		
		≥350km	Long- haul	1

New



Change in penalties

From 2025-2030:

Vehicles sold x €4,250 per gCO₂/tkm over

After 2030:

Vehicles sold x €6,800 per gCO₂/tkm

Missing target by 1%

(for a manufacturer that sells 25,000 vehicles)

2025: €57 million

2030: €92 million

Change in penalties

From 2025:

Vehicles sold x €4,250 per gCO₂/tkm over

After 2030:

Vehicles sold x €6,800 per gCO₂/tkm

Missing target by 1%

(for a manufacturer that sells 25,000 vehicles)

2025: €57 million

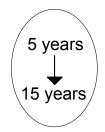
2030: €57 million

Summary

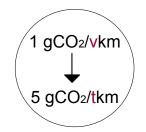




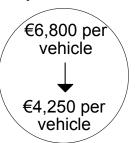
Max credit life has increased



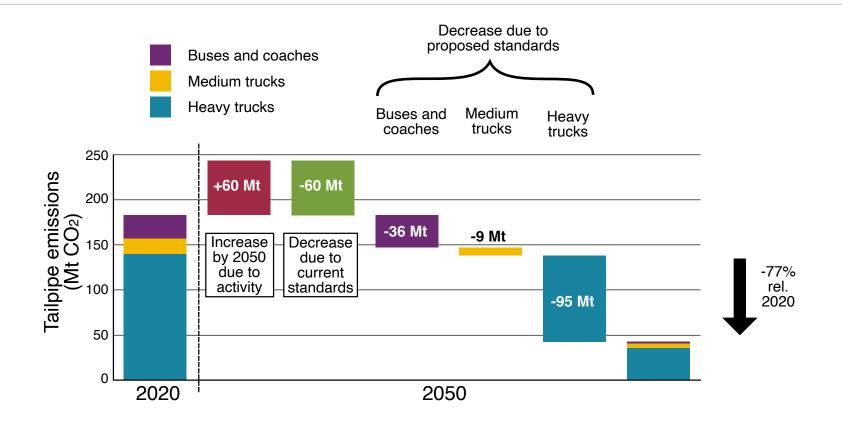
Higher emission threshold for ZEVs



Lower penalties



Projected emission reductions



Questions? Contact e.mulholland@theicct.org

