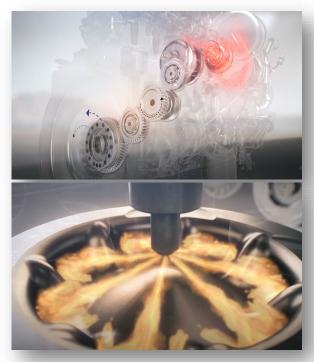


Well-to-wheel decarbonisation

What are our options?

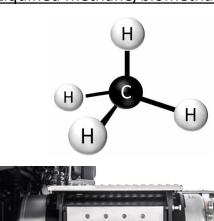
Improving current diesel technology



Renewable 'drop-in' fuels



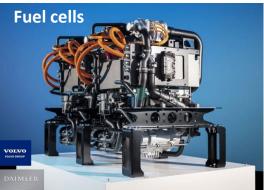
<u>Liquified methane/biomethane</u>





<u>Electric</u>

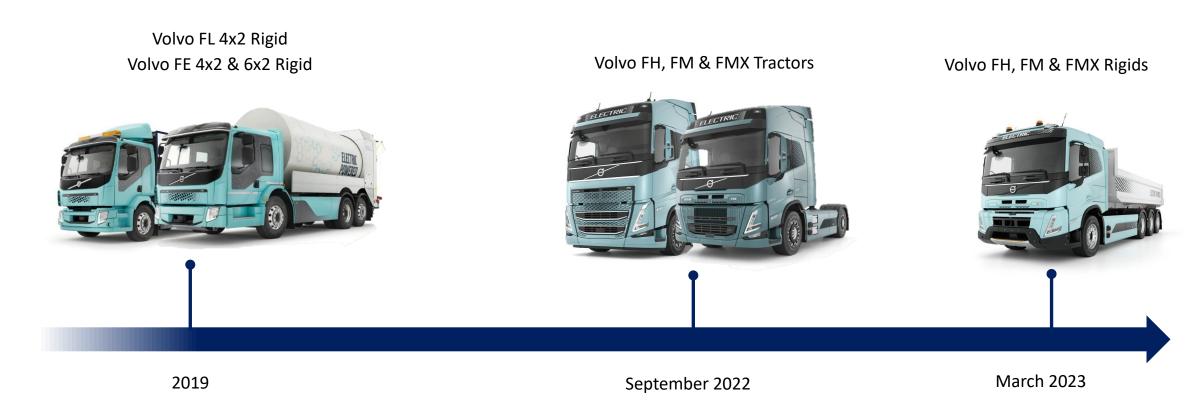




The Current Offer – Range Anxiety

Volvo Trucks have a complete offer

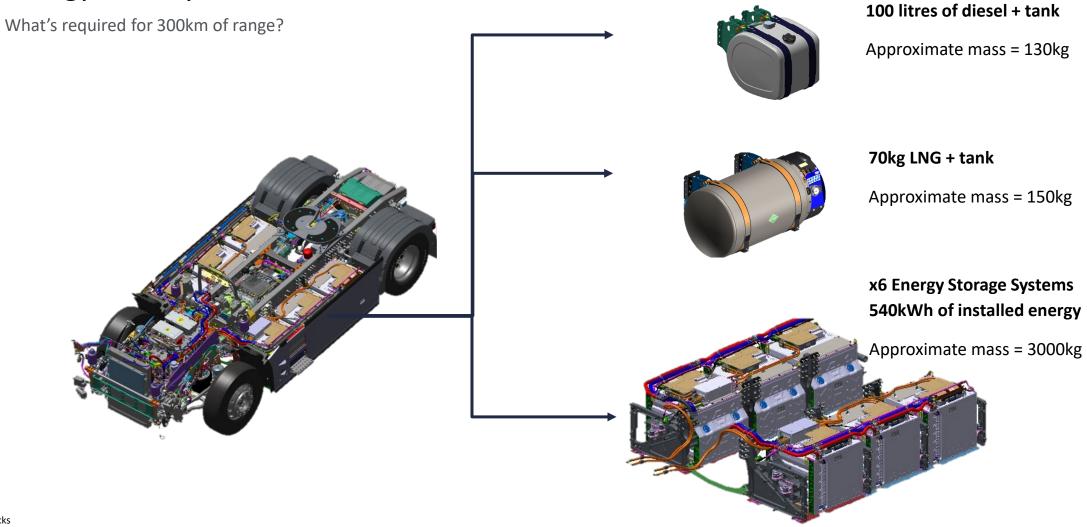




Volvo Trucks

Scale Comparison

Energy Density



Medium Duty – Distribution, Construction, Waste & Municipal













Heavy Duty – Distribution, Construction, Waste & Municipal







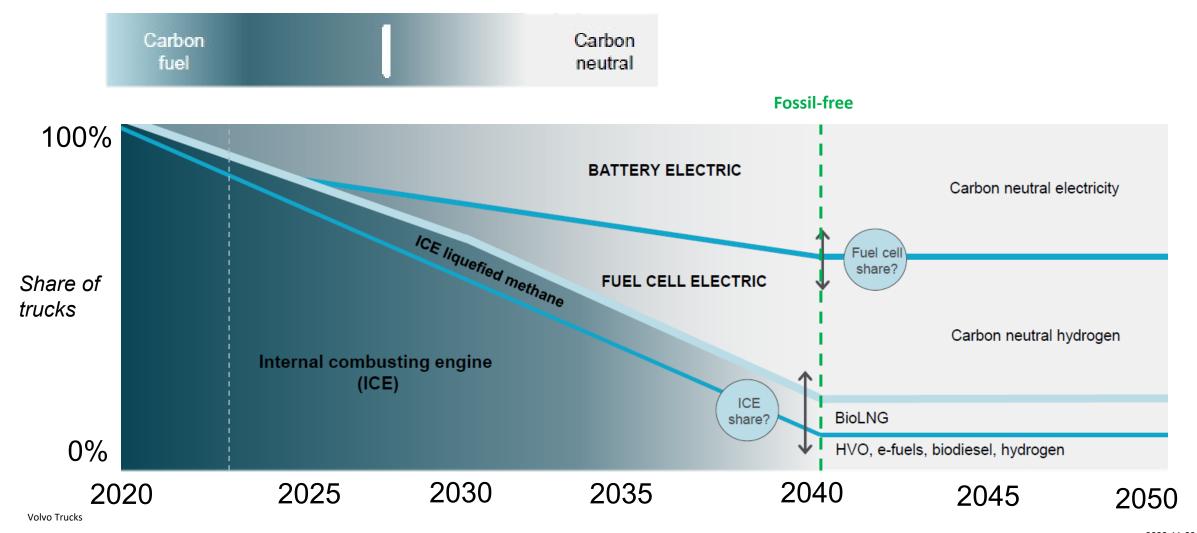






FILM OF TRUCK IN SERVICE

The Volvo Roadmap



Key Enablers for the Transition

AN EFFICIENT TRANSPORT SYSTEM

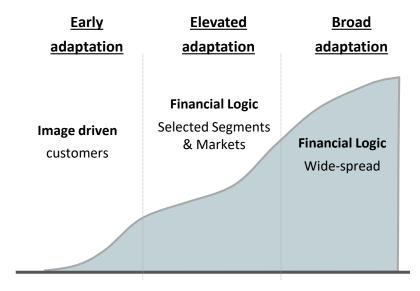
RANGE PAYLOAD CHARGING





SUBSIDIES FROM GOVERNMENTS

PURCHASE OF INFRASTRUCTURE TAXES VEHICLES





Plug-In Vehicle Grant





Electra e-Compact
Electra e-Star 27-350

DAF CF Electric Tractor

Dennis Eagle E-Collect

Renault D-Range

Volvo FL 4x2

Volvo FE 6x2







FH 4x2 Tractor



Introduction of CO2-based tolls

The law was approved by the Federal Cabinet on June 14th 2023.

- Introduction of a CO2-based toll from December 2023
- Based on the Directive 1999/62/EC on road user charging of vehicles on the use of road infrastructures.
- Massive toll increase for diesel trucks, i.e. in some cases > 80%
- Full toll exemption for Zero Emission Vehicles ZEV:
 - BEV battery
 - FCEV fuel cell
 - H2-ICE hydrogen combustion engine

For more detail click here

www.toll-collect.de



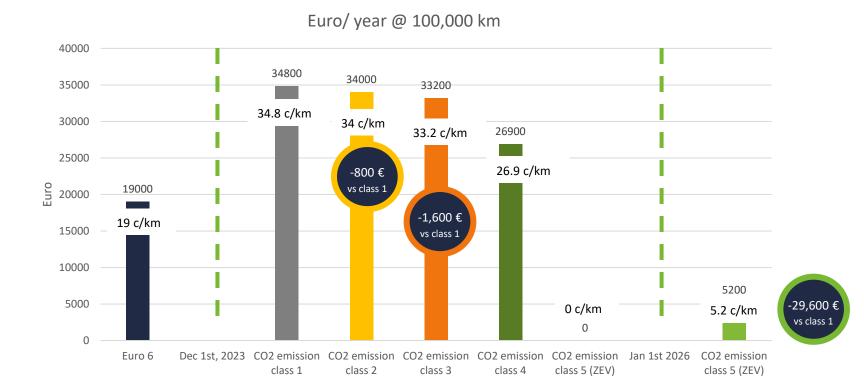
December 2023 July 2024 January 2026

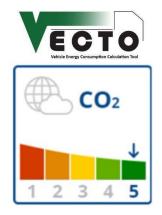
Introduction of CO2 emission classes that, based on VECTO, enable limited toll reductions for vehicles with particularly low CO2 emissions Expansion of the toll to vehicles >3.5t (from today >=7.5t) from July 2024

Introduction of a greatly reduced basic toll rate for ZEV- infrastructure, air pollution and noise pollution costs - from January 2026

European VECTO Incentives: German Maut increase from Dec 1st 2023

Euro 6 >18t from 5 axles





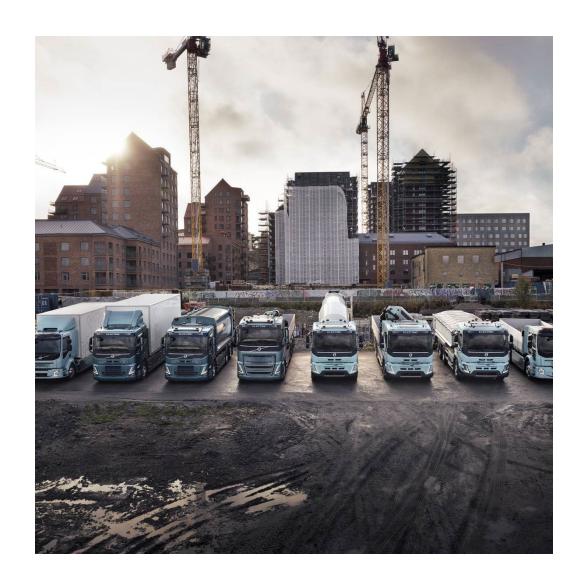






Summary

- Volvo leading the change
- Trucks on the road and ordered
- Established service and dealer network
- Positive incentive to change
- Growing infrastructure



VOLVO