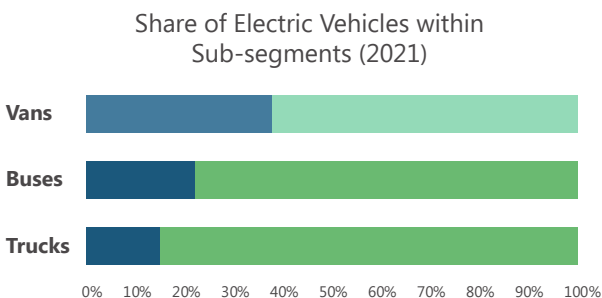
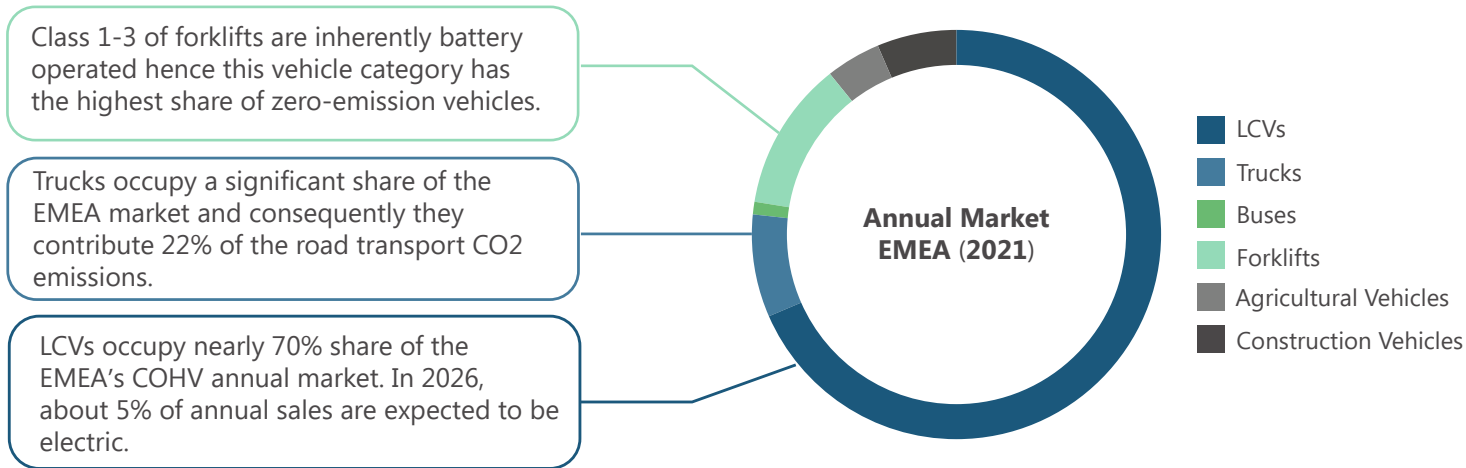


The EMEA Commercial & Off-Highway Vehicle Market in Focus

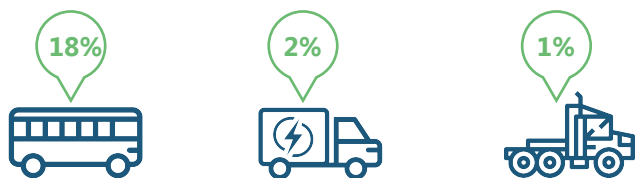
Electric Vehicles (EVs) have penetrated the passenger vehicle market significantly, and now zero emission initiatives are also impacting the COHV market which includes buses, trucks, and last mile delivery vehicles. An example of recent trend in the COHV space includes the adoption of environmentally friendly logistical practices by delivery fleet operators. Within PTR's e-Mobility segment, the COHV database, together with the EV Charging Infrastructure (EVSE) Service and the Battery Benchmark Service, has been designed to provide a holistic and in-depth look at COHV market trends.



Medium Heavy Trucks Vans

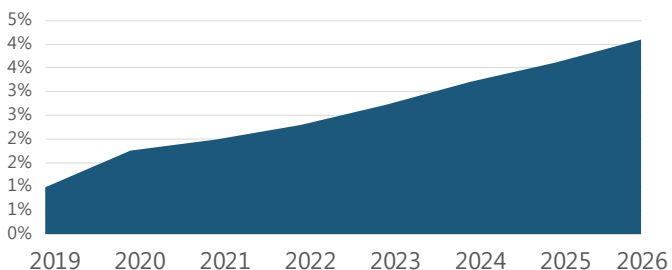
Several electric vehicle models have been introduced within the heavy truck & bus sub-segments. In the case of LCVs, delivery vans are getting electrified more quickly.

Annual Market – Percentage Electrified (2021)



Buses, trucks and LCVs are commercial vehicles used on highways for transportation of goods and passengers.

Percentage Electrification in Annual Market – Commercial Vehicles



Commercial vehicles in EMEA are being electrified due to strict government level policies regarding global greenhouse gas (GHG) emissions.

Nearly 2% of the commercial vehicles have been converted to electric drivetrain. Moving forward, PTR expects 4% of the annual sales of these vehicles to be electric by 2026.