

# Brazil on-road vehicle outlook

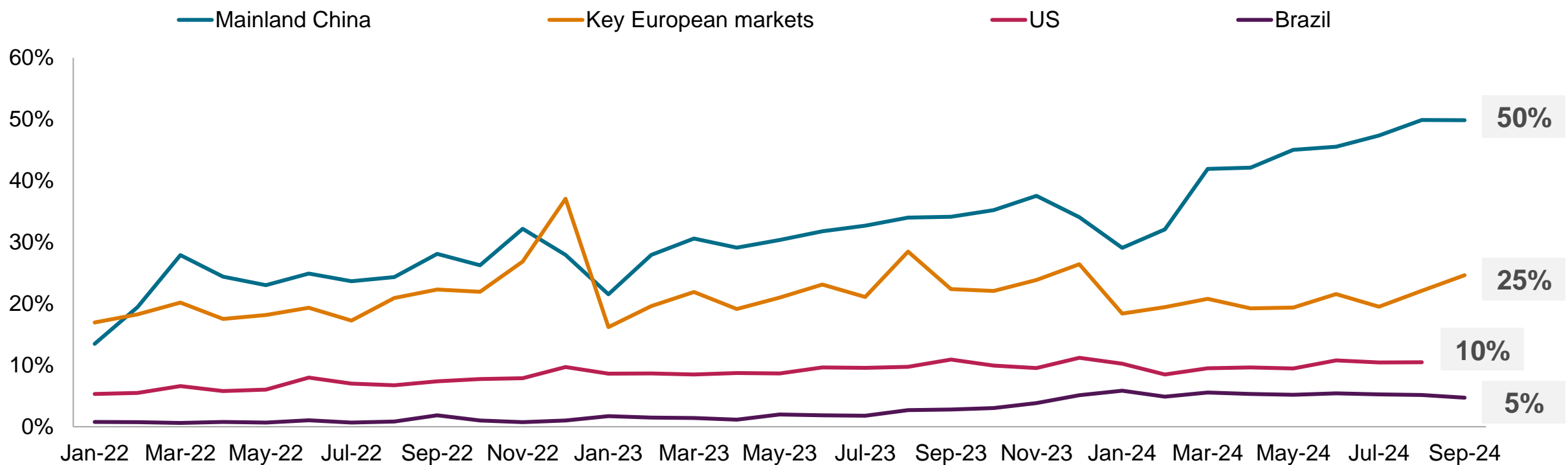
Fellipe Balieiro / Mobility and Energy Future / Director

December 4, 2024



# Electric vehicle sales continue to make inroads with consumers

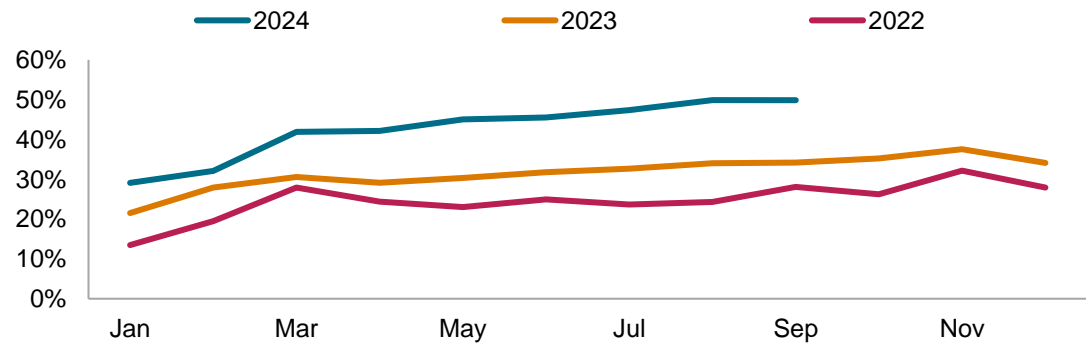
Monthly BEV and PHEV share of total LV sales



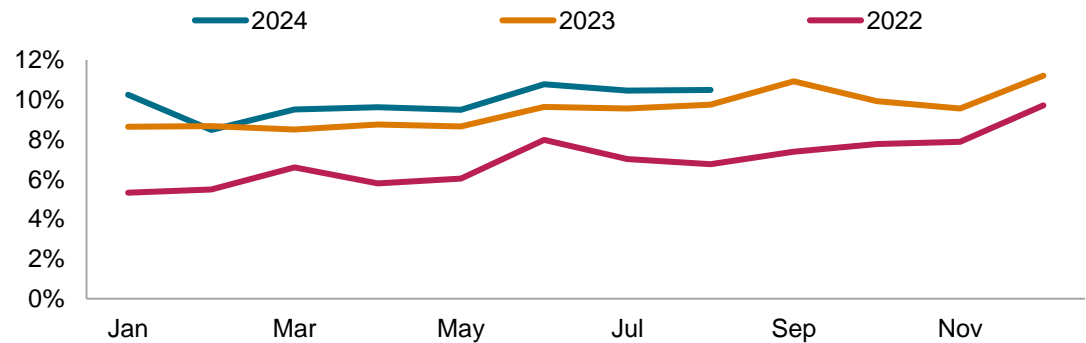
Sales are as measured by new registrations. Key European markets include Denmark, France, Germany, Italy, the Netherlands, Norway, Spain and the United Kingdom. December 2023 data for the United States are not yet available.  
Data compiled September 2024.  
Sources: S&P Global Commodity Insights; S&P Global Mobility.  
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# Another angle...

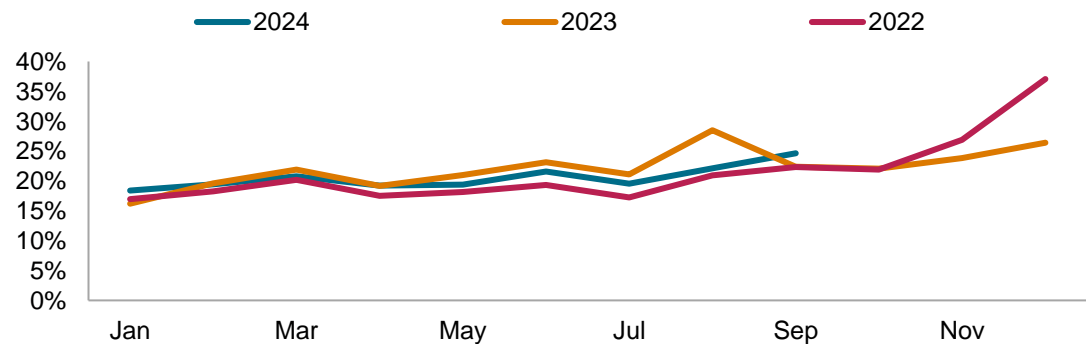
Monthly BEV and PHEV share of total LV sales - Mainland China



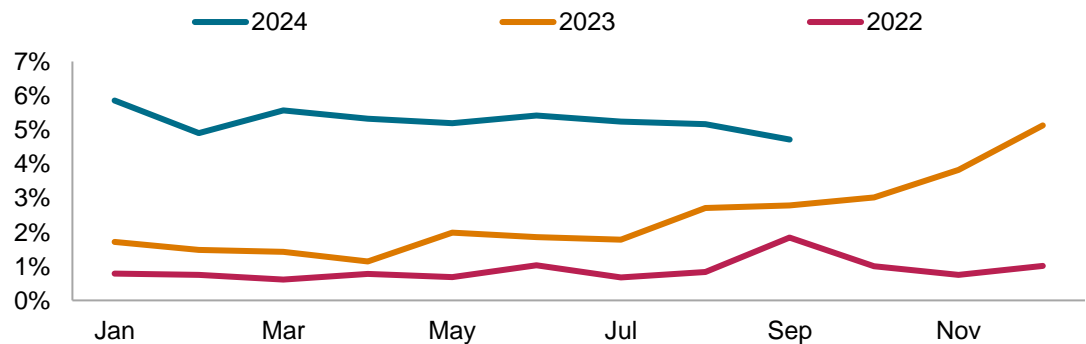
Monthly BEV and PHEV share of total LV sales - United States



Monthly BEV and PHEV share of total LV sales - Key European Markets



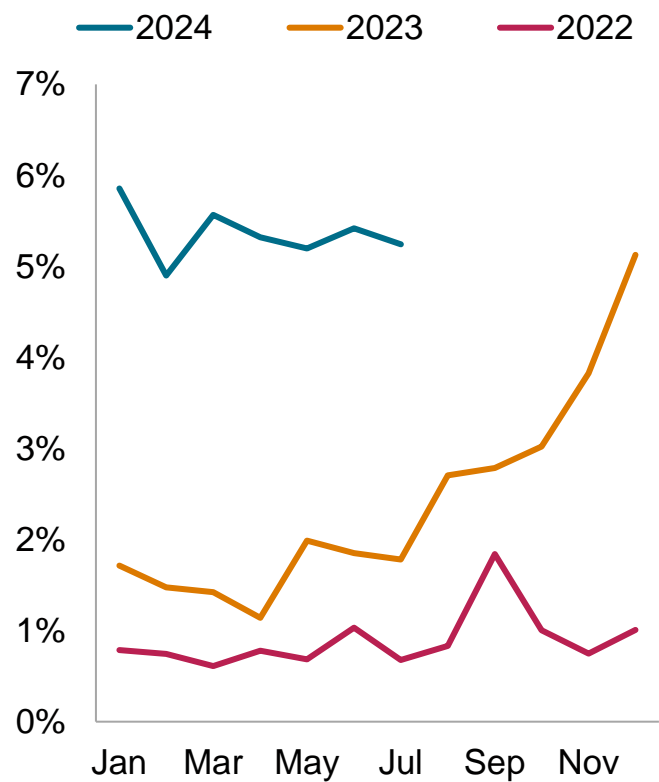
Monthly BEV and PHEV share of total LV sales - Brazil



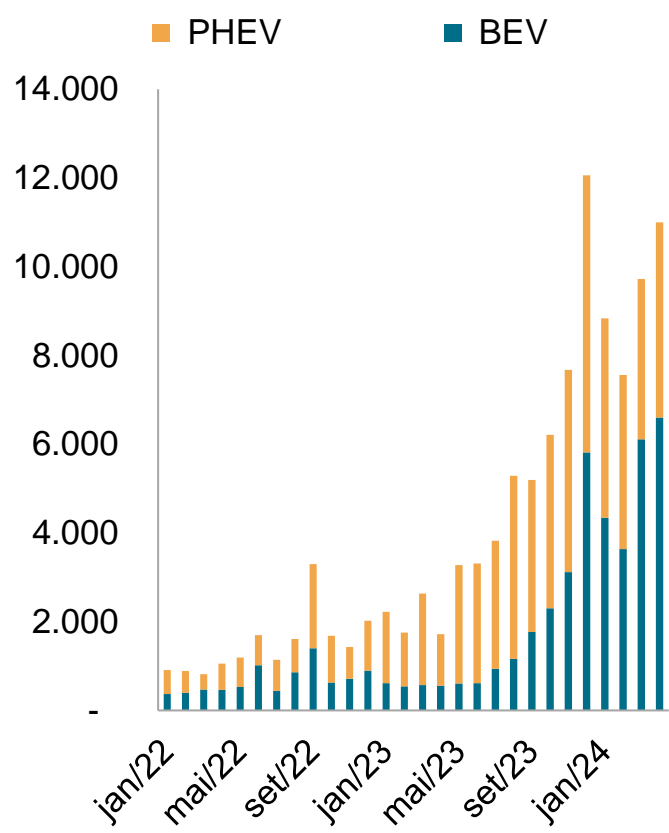
Data compiled September 2024.  
Sources: S&P Global Commodity Insights; S&P Global Mobility.

# Brazilian EV market is rapidly shifting

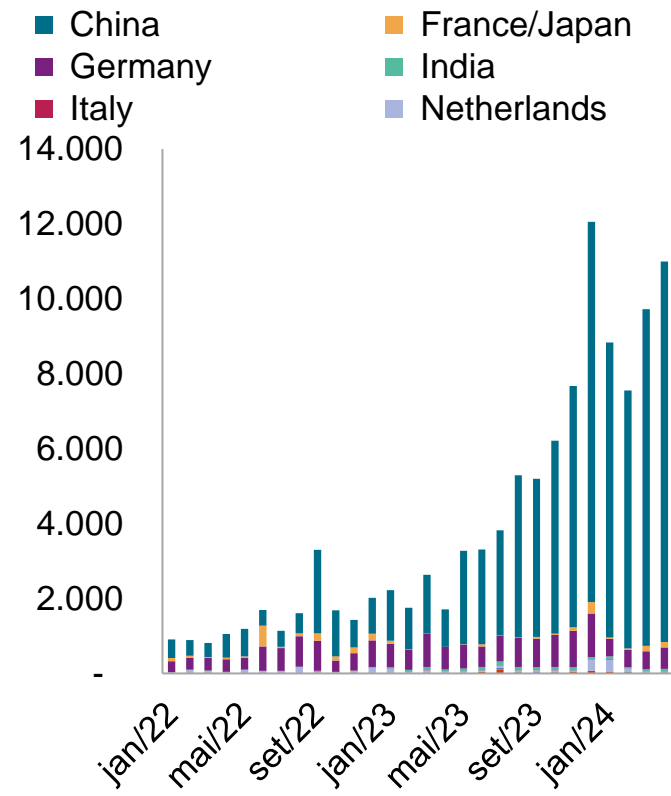
Monthly BEV and PHEV share of total LV sales - Brazil



Monthly BEV and PHEV sales



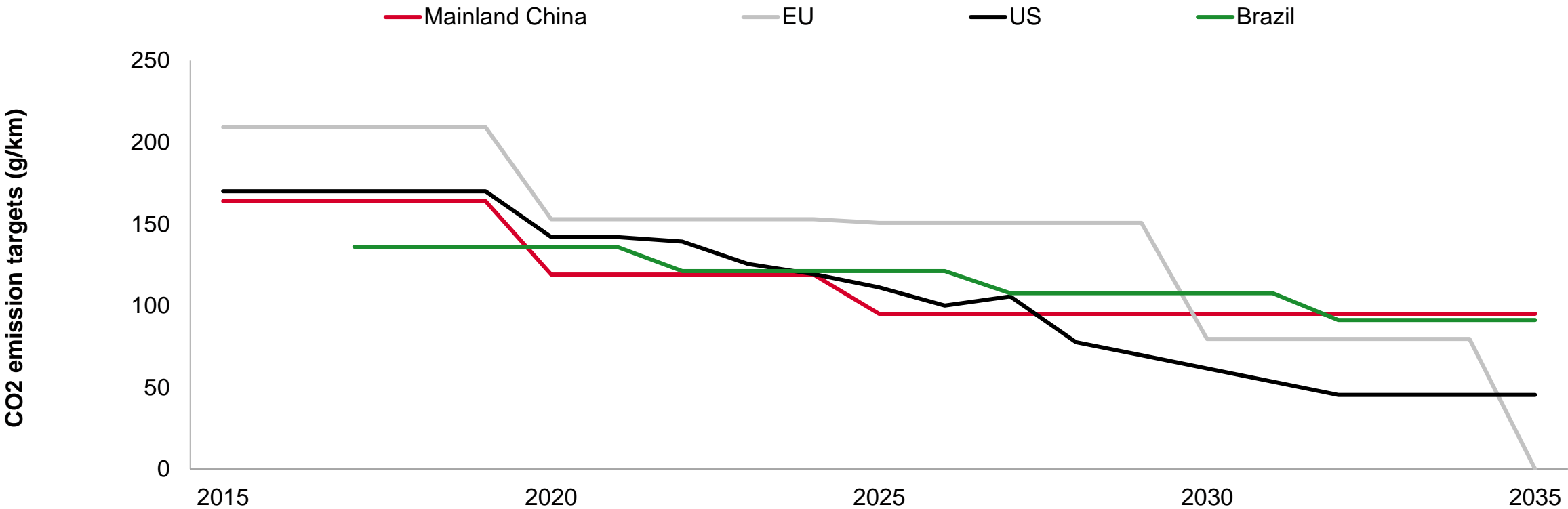
Monthly BEV and PHEV sales volume by vehicle origins



Compiled September 2024  
Source: S&P Global Commodity Insights; S&P Global Mobility  
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# Global policymakers continue to limit tailpipe emissions

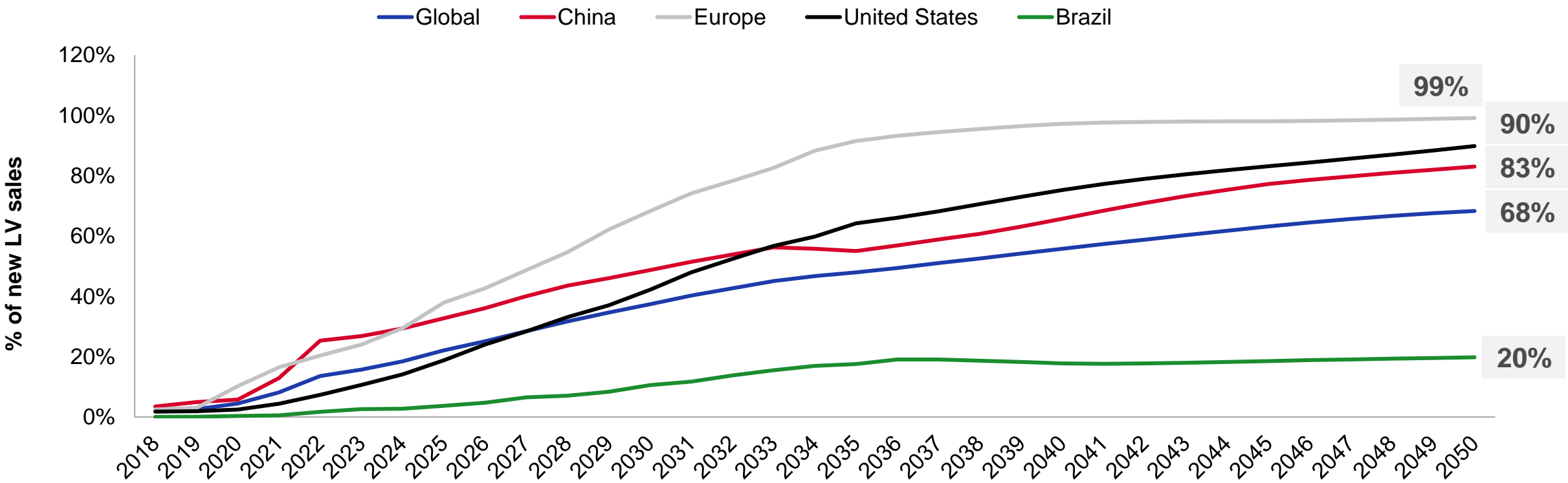
## CO2 emmision targets



Data compiled June 2024.  
Sources: S&P Global Commodity Insights; S&P Global Mobility.  
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# Global electrification targets are largely missed

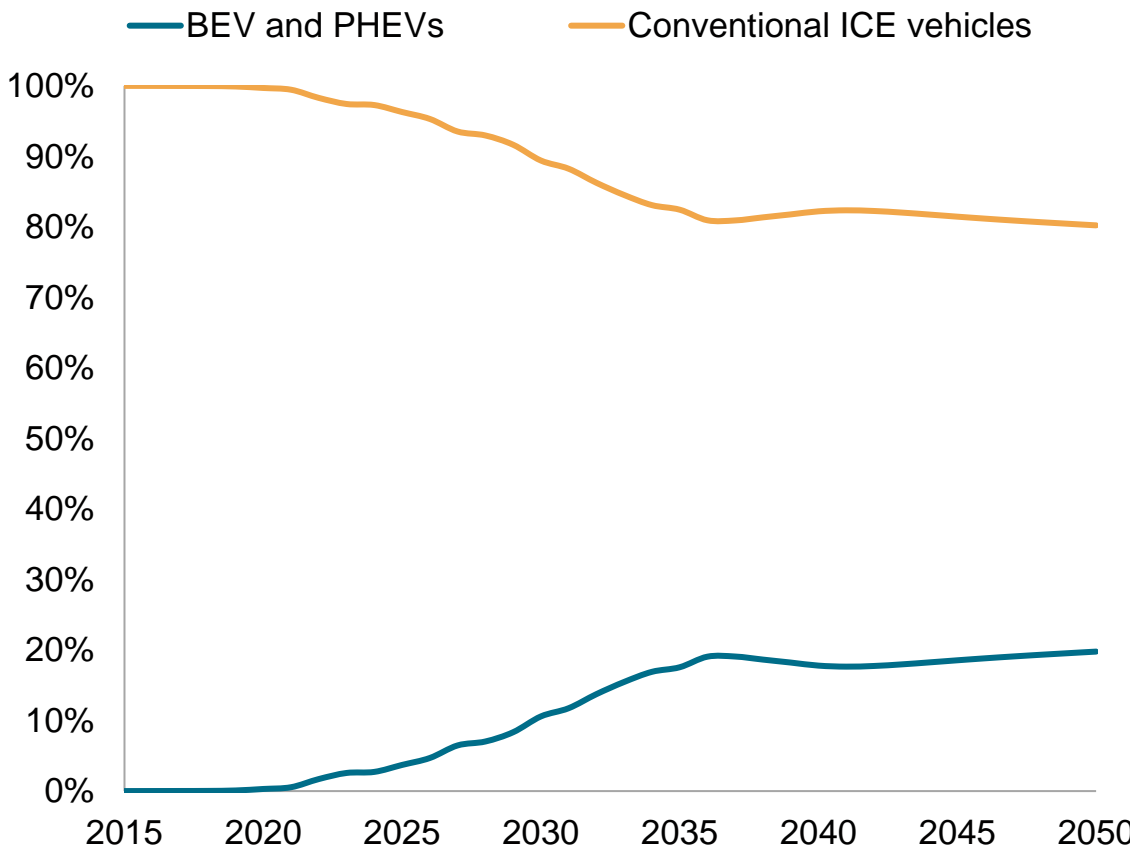
Sales: BEV, PHEV, and FCEV share of total LV sales



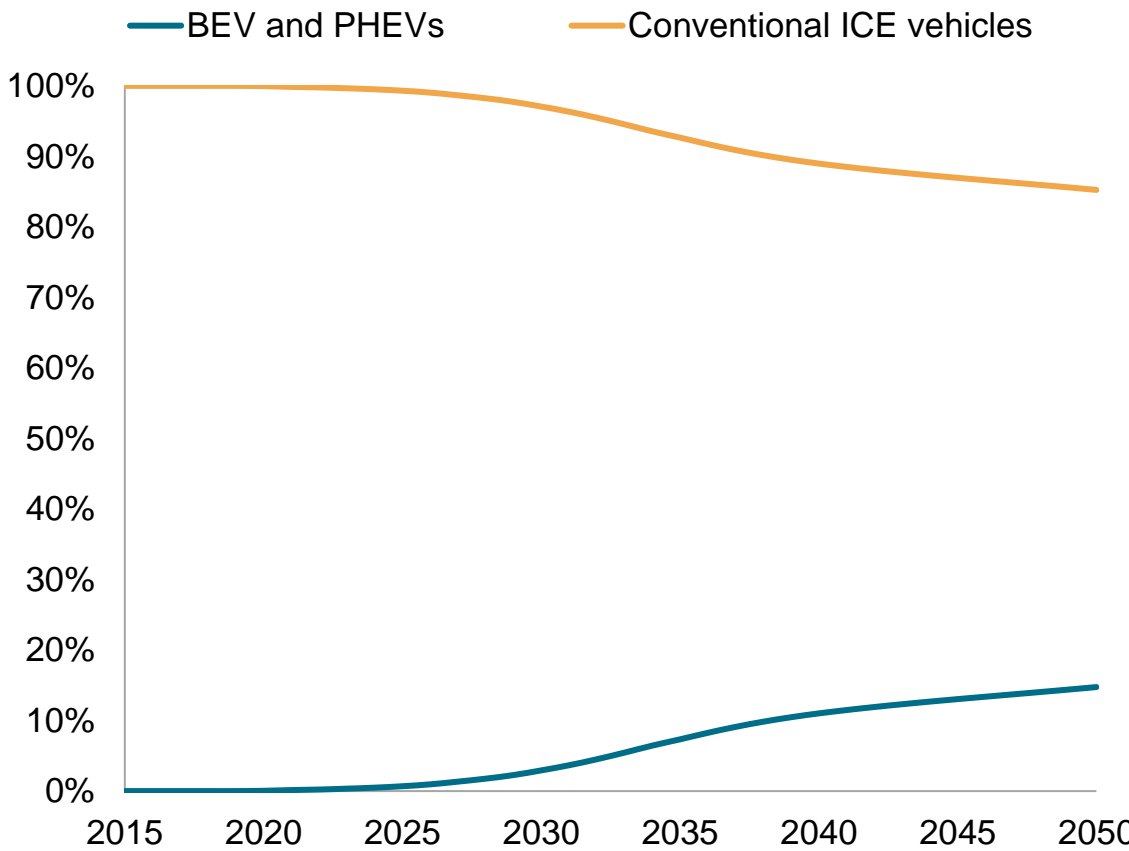
Data are from the Mobility and Energy Future service's 2023 LV long-term outlook. Greater China covers the locations of Mainland China, Hong Kong, and Taiwan.  
Source: S&P Global Commodity Insights; S&P Global Mobility  
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# Brazil's ICE vehicle fleet peak is remains distant

Brazil light BEV/PHEV and conventional ICE sales (% of total)

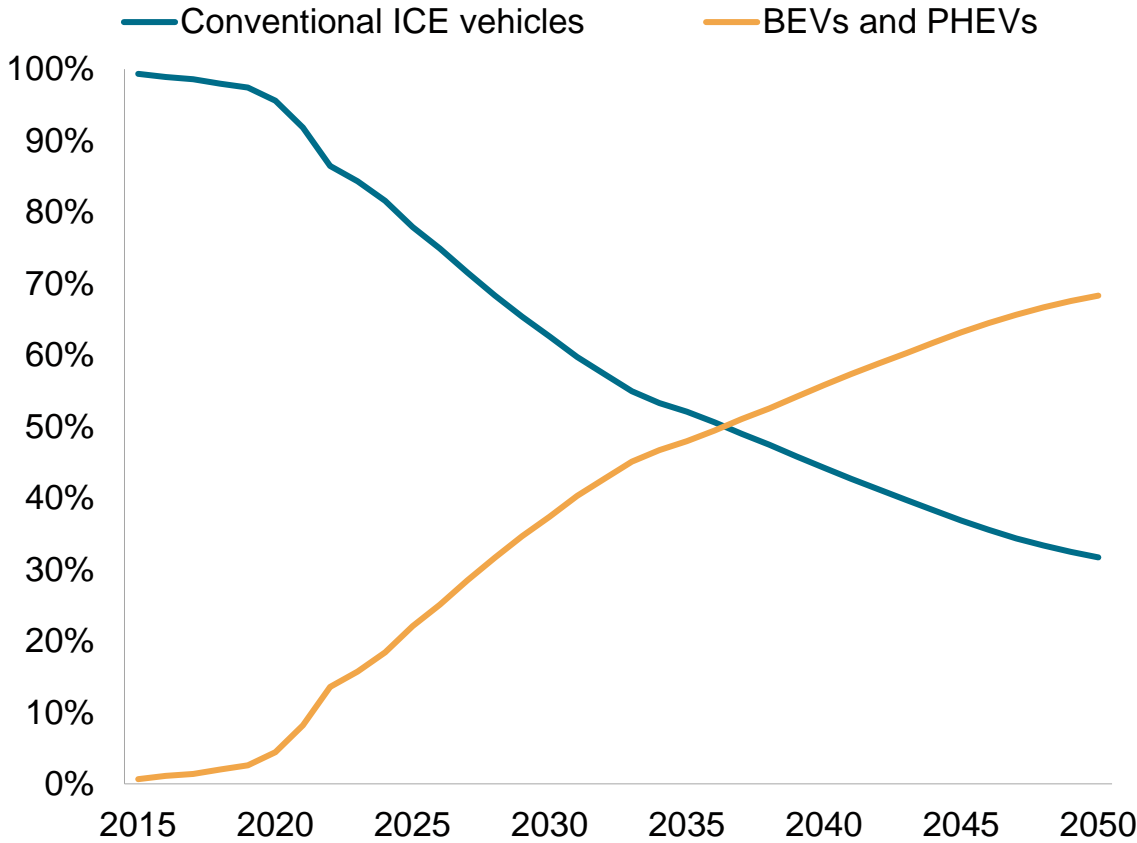


Brazil light BEV/PHEV and conventional ICE fleet (% of total)



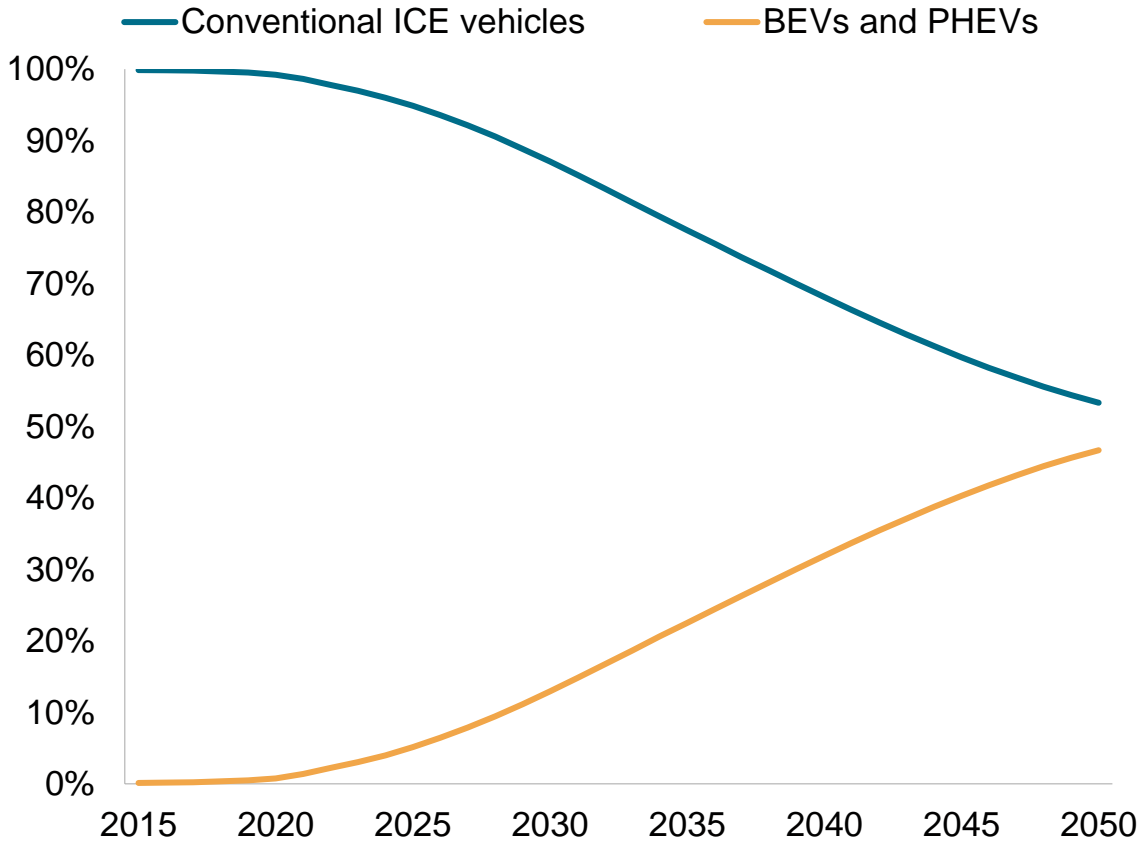
# The global ICE vehicle fleet peak is eminent, but it will be a “long goodbye”

Global light BEV/PHEV and conventional ICE sales (% of total)



Data compiled September 2024.  
Sources: S&P Global Mobility; S&P Global Commodity Insights.  
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Global light BEV/PHEV and conventional ICE fleet (% of total)

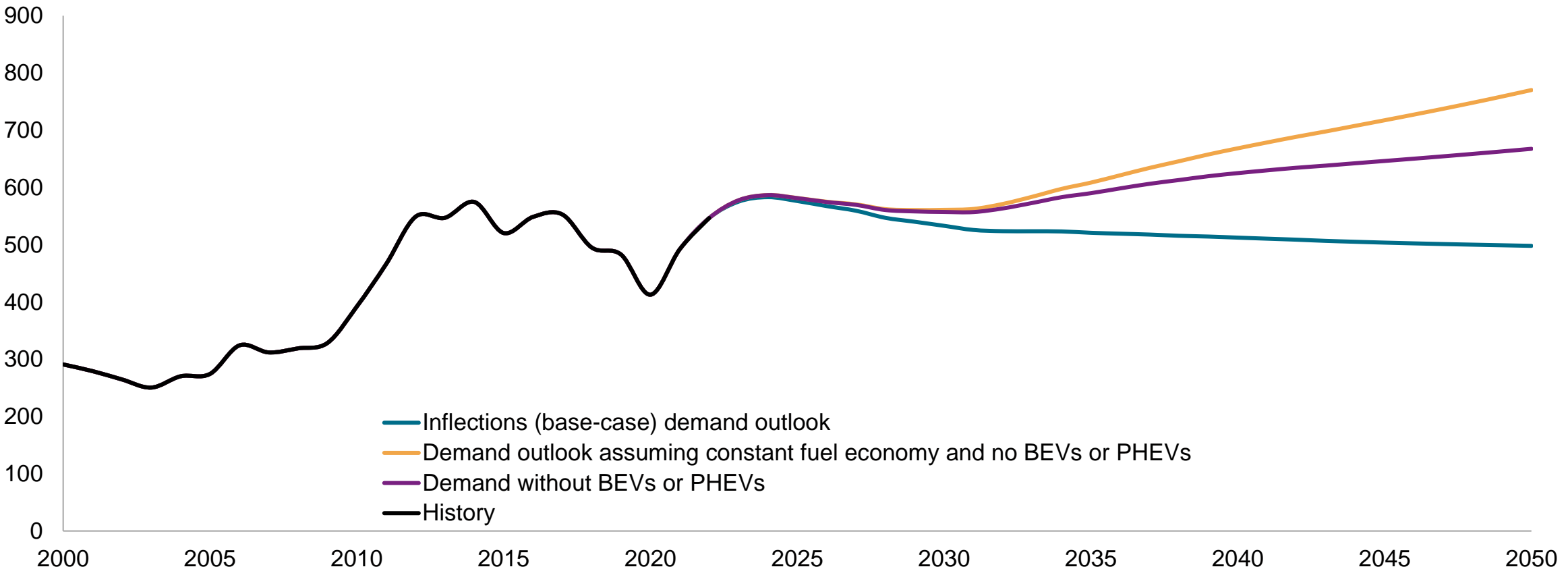


Data compiled September 2024.  
Sources: S&P Global Commodity Insights; S&P Global Mobility.  
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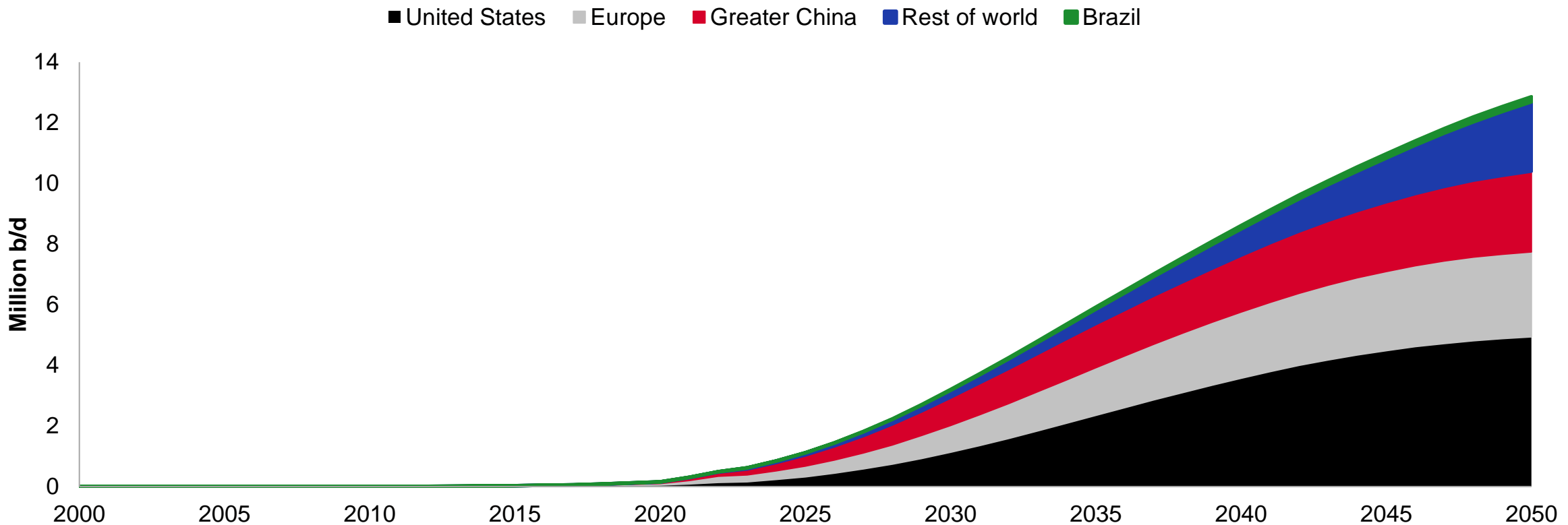
# Despite increasing efficiency of the light vehicle fleet, electrification is the greatest threat to future fuel demand

Brazil LV gasoline and diesel demand (thousand b/d)



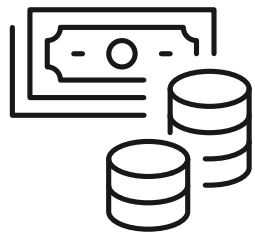
# Global displaced gasoline and diesel demand from vehicle electrification nears 13 million b/d by 2050

Indicative global gasoline and diesel demand displaced by light BEVs and PHEVs (million b/d)

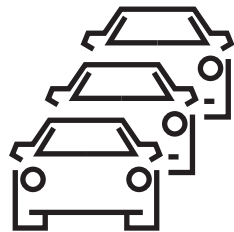


Sources: S&P Global Commodity Insights; S&P Global Mobility.  
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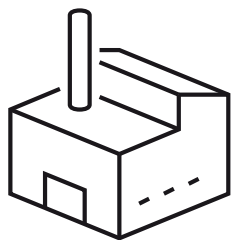
# Looking ahead



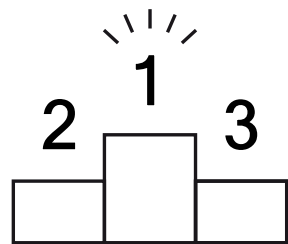
Affordability



Availability



Infrastructure



Competition





# Questions

