

Recharging the batteries. How the electric vehicle revolution is affecting CESEE countries

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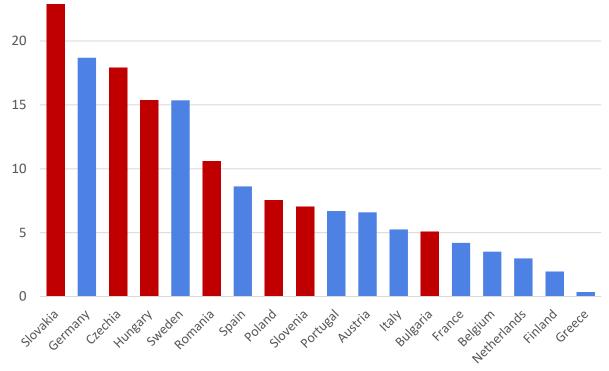


La transizione all'auto elettrica: passato, presente e futuro del settore automotive italiano - Banca d'Italia - Torino, 30 novembre 2023

A very important sector for CESEE

Automotive is relevant for CESEE economies ...

Role of the automotive sector: automotive sector value added in % of manufacturing value added, 2021



Note: Automotive sector is defined as NACE rev.2 C29 'Motor vehicles, trailers and semi-trailers'. Source: Eurostat National Accounts

Source: OICA



... and CESEE is relevant for automotive

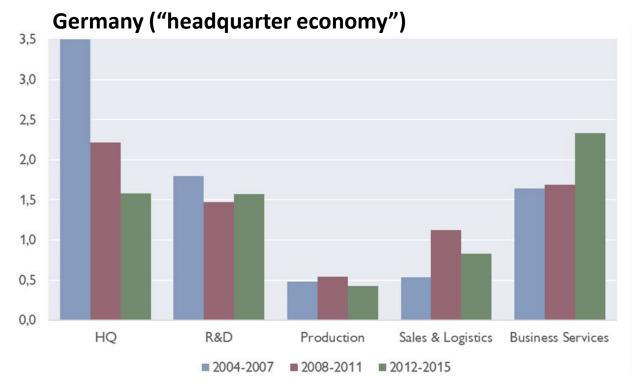
26% of car produced in Europe are from CESEE countries (up from 7% in 2003)

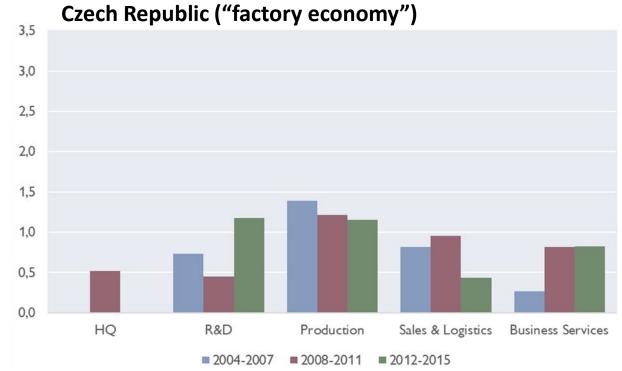
All major global brands have production facilities in the region

45% of current battery production capacity is in CESEE

But CESEE countries risk to be trapped in the lower value added functions

Relative functional specialization of automotive







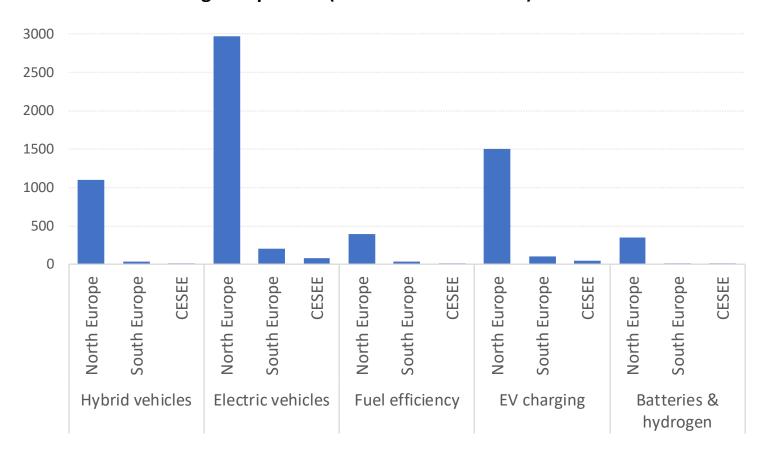
Note: Automotive defined as NACE rev. 2 C29 "Motor vehicles, trailers and semi-trailers"

Source: Stoelliger, 2021



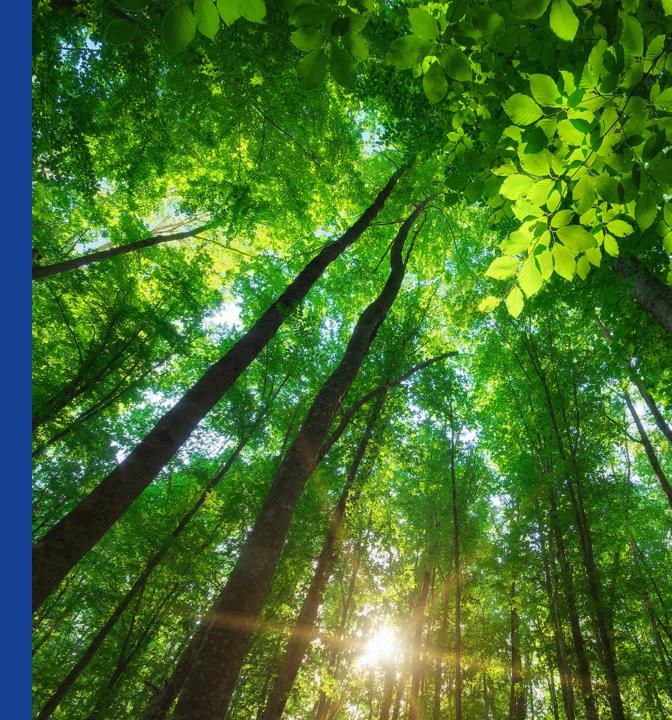
... as they are decision-takers and innovation-takers

Number of green patents (cumulated 2016-2021)





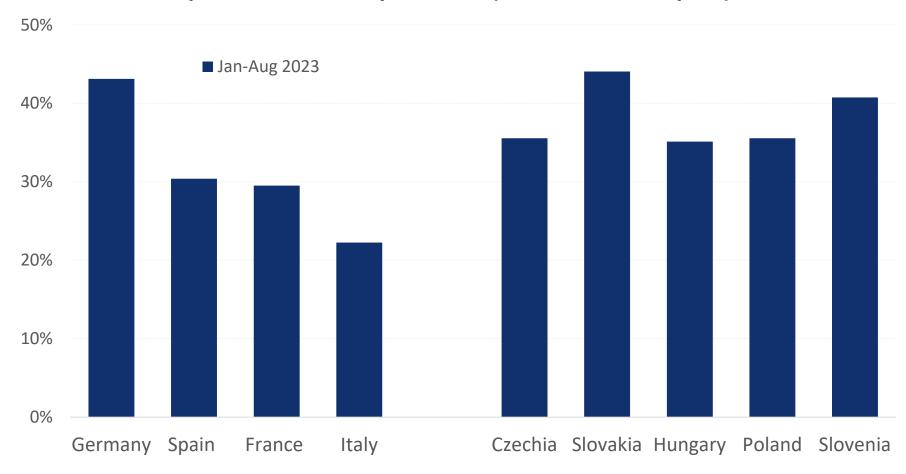
Car production and the electric revolution: is CEE ready?





CESEE focus on electric and hybrid vehicles is high

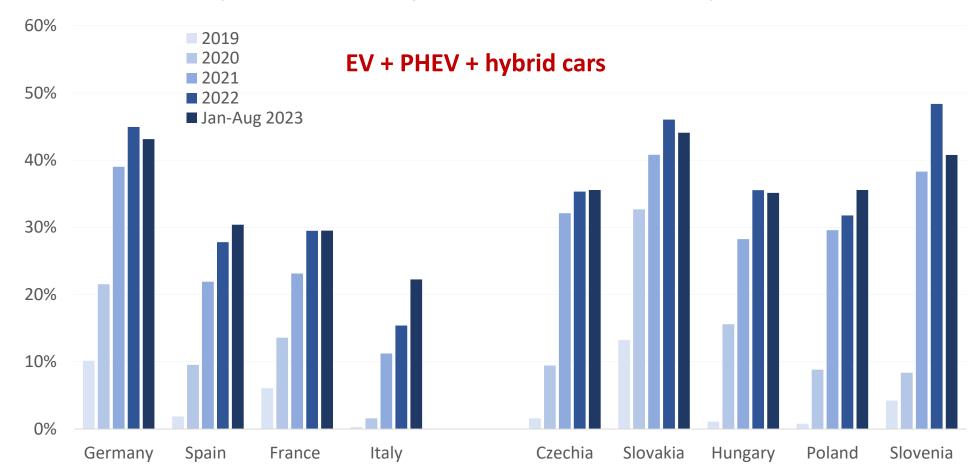
Exports of EV and hybrid cars (% of total car export)





... and growing fast

Exports of EV and hybrid cars (% of total car export)

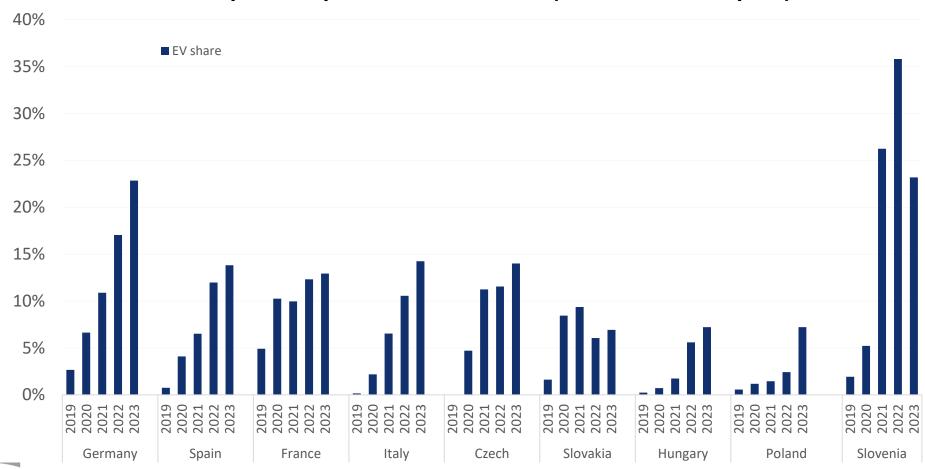




Source: Eurostat

However, considering pure electric vehicles, the picture is partially different

Exports of pure electric vehicle (% of total car export)



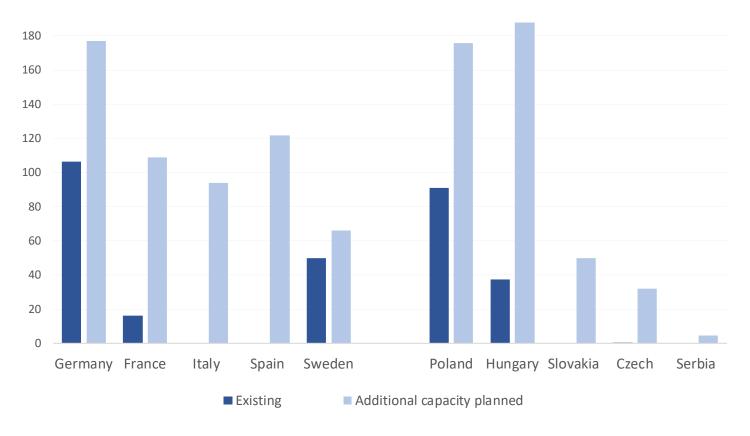


Source: Eurostat



Battery production in Europe is ramping up. CESEE is playing a role (Hungary #2)

Battery production capacity in Europe (GWh): existing and planned



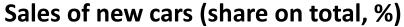
Source: Company sources, EV Markets Reports (September 2023)

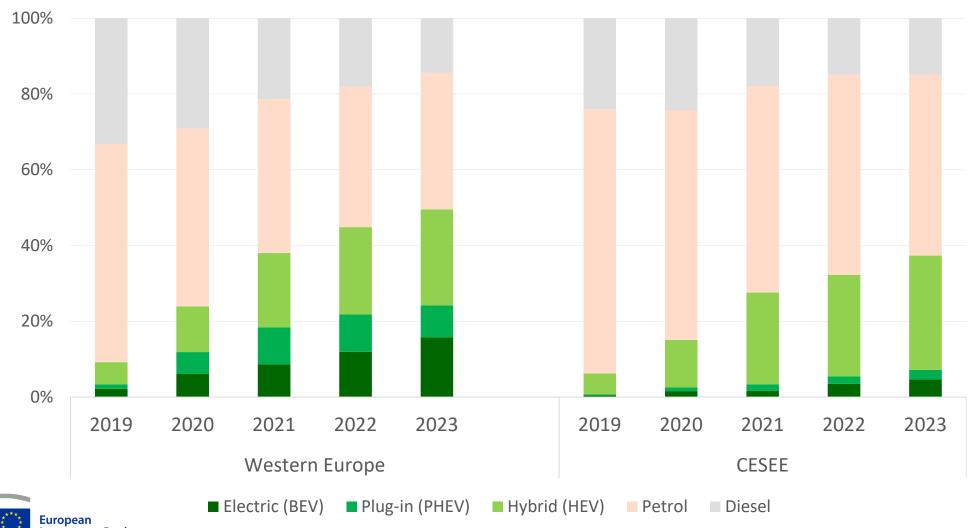
Demand: are CEE customers accelerating the uptake of electric vehicles?





The local market in CESEE is developing slowly

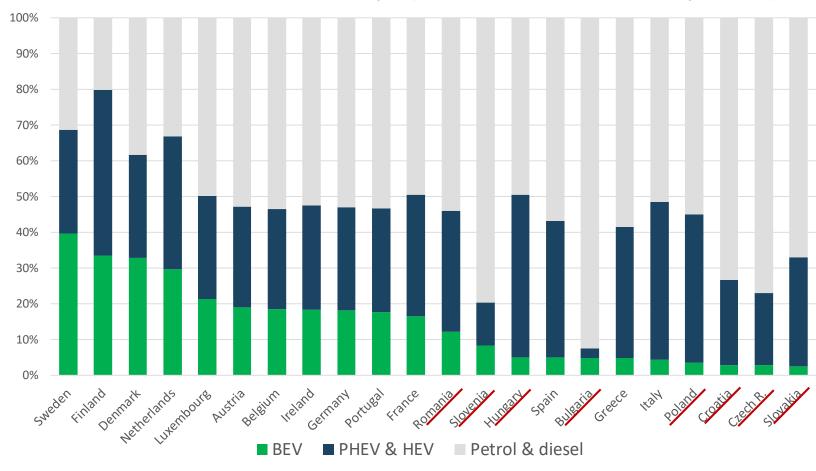






EV acceptance in **CESEE**

Sales of new cars in Europe (share on total, %; Jan-Sept 2023)

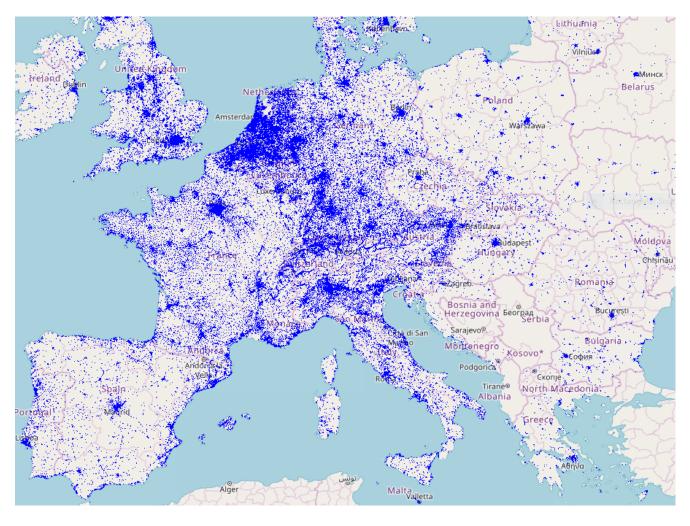




Source: ACEA



Charging points: there is a stark disparity in Europe



In summary

- The automotive sector is relevant for Central Eastern European countries.
 And vice versa
- But there are structural barriers to be addressed
- CESEE countries are ramping up production and export of electric vehicles, in some cases mirroring the (good) performance of Germany
- However, on the demand side still a long road for the diffusion of electric vehicles, with large opportunities for further developments



