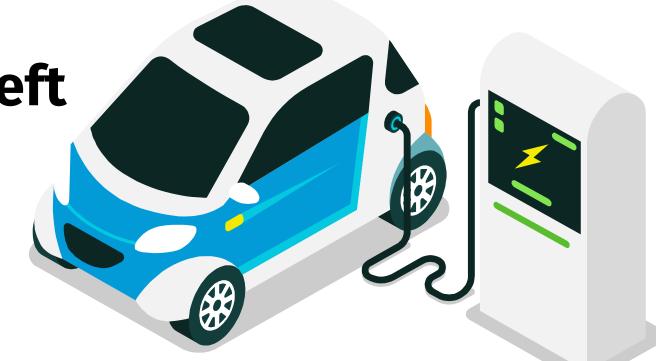
Plugged In or Left Behind?

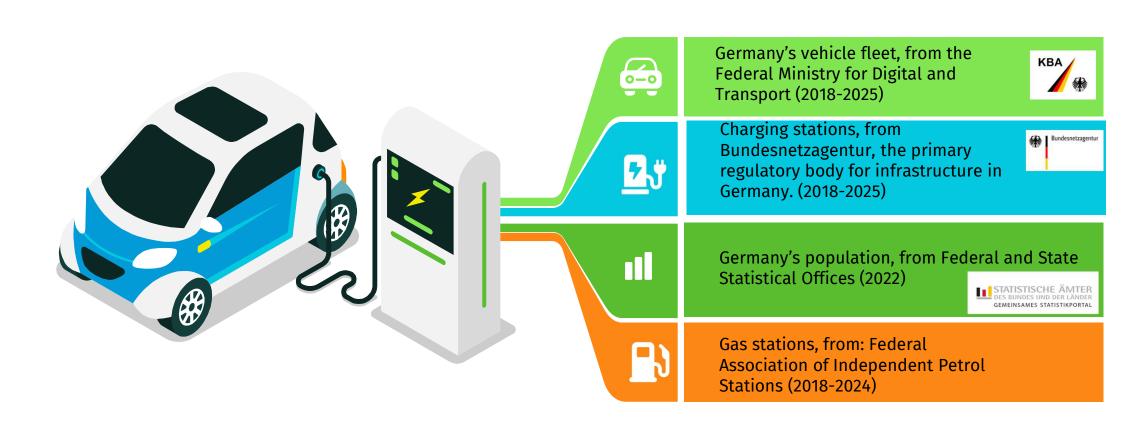
An analysis of Germany's infrastructure readiness for the transition to electric vehicles



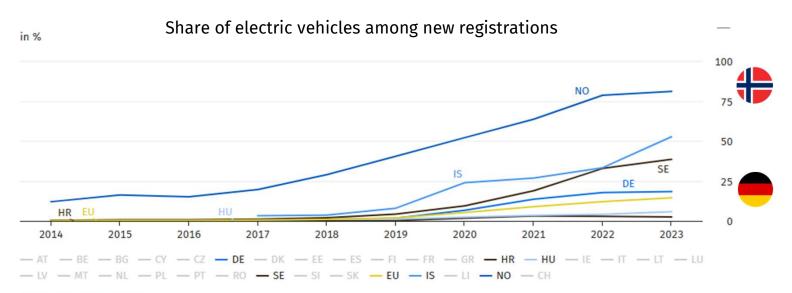
Adeline Silva Schäfer, April 2025



Datasets



Electric vehicles adoption in Europe

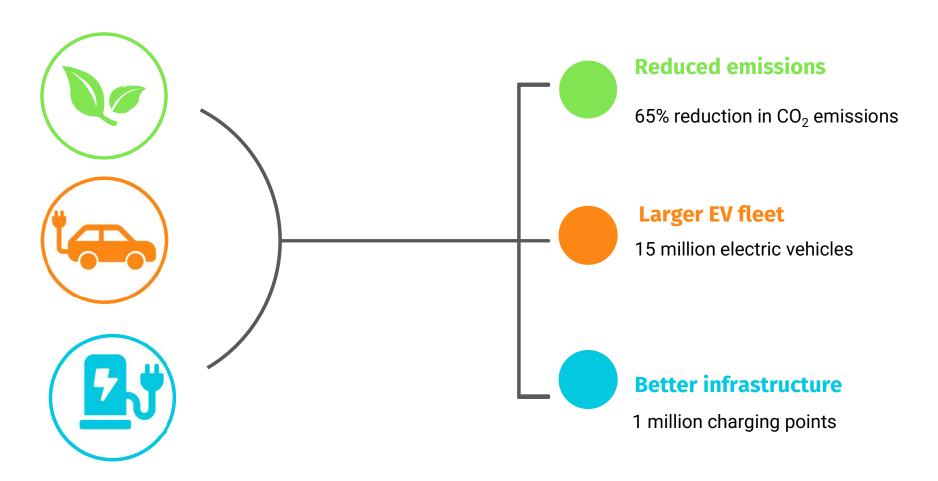


Ländercodes. Quelle: Eurostat

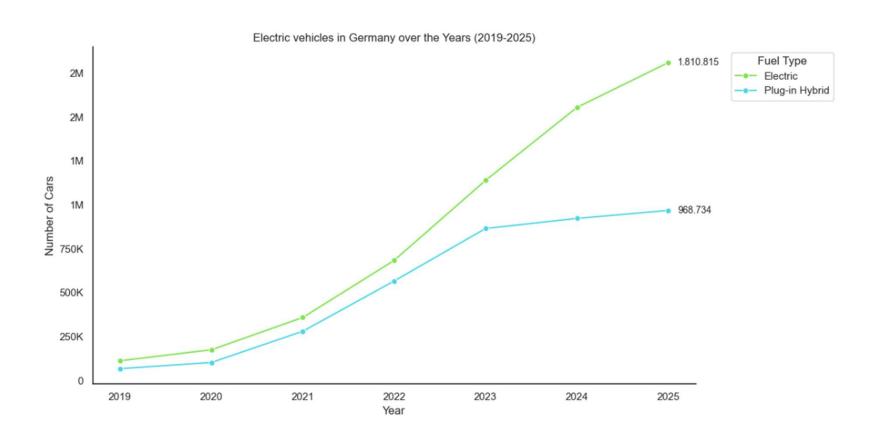
© LL Statistisches Bundesamt (Destatis), 2025



Climate Protection Act (2019) – Goals until 2030

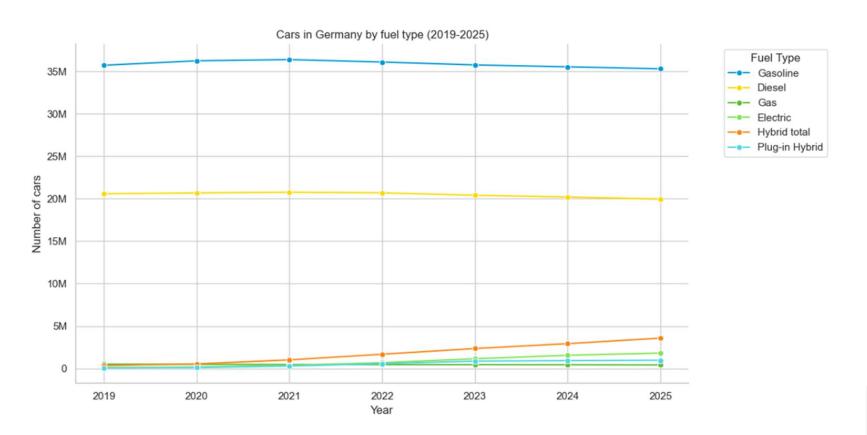


Growth of Germany's EV Landscape



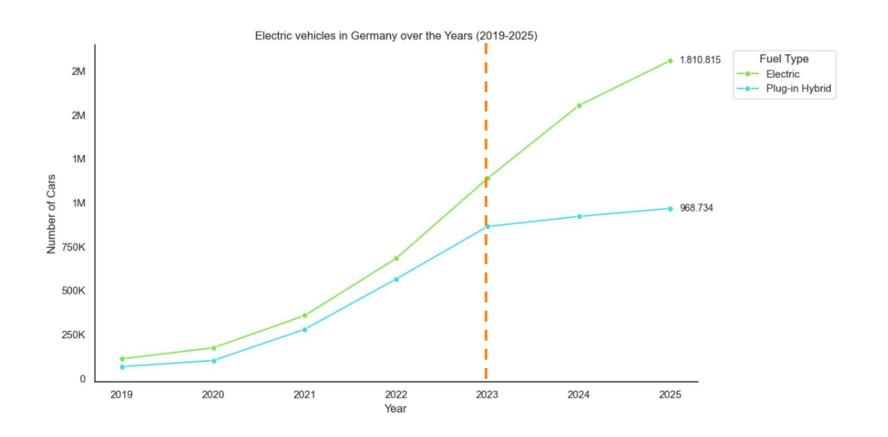


What about the other types of cars?



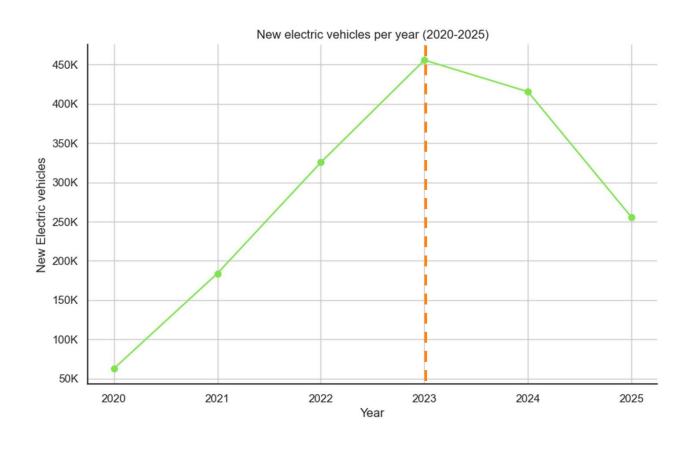


Growth of Germany's EV Landscape





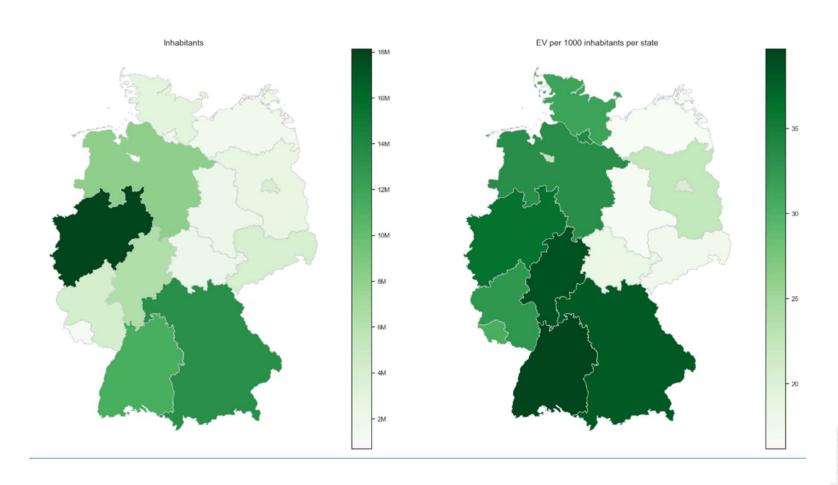
Why is the number of new electric vehicles going down?



End of incentives for electric vehicles

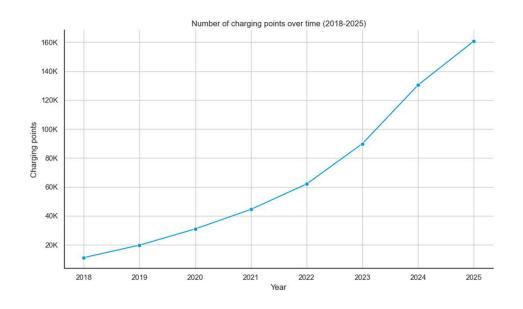


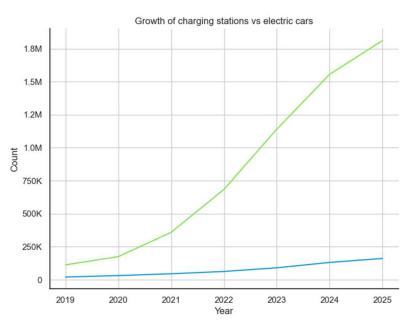
How are the EVs distributed in Germany





What about the charging infrastructure?



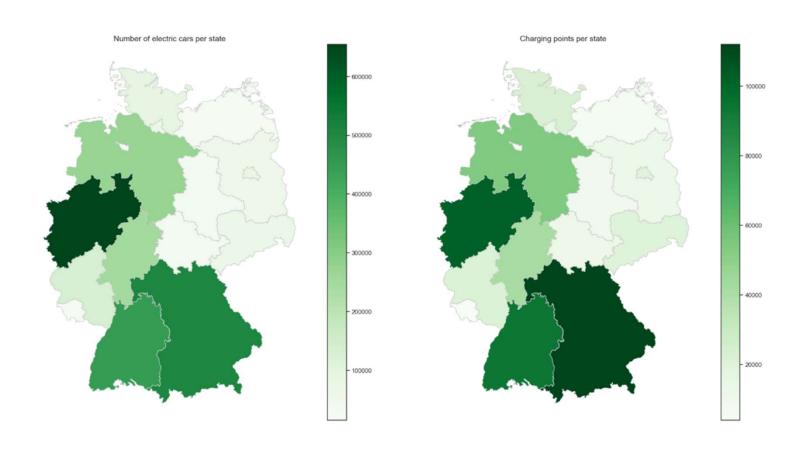


Charging points x Electric cars

Electric Cars

Charging Stations

Electric vehicles and charging points

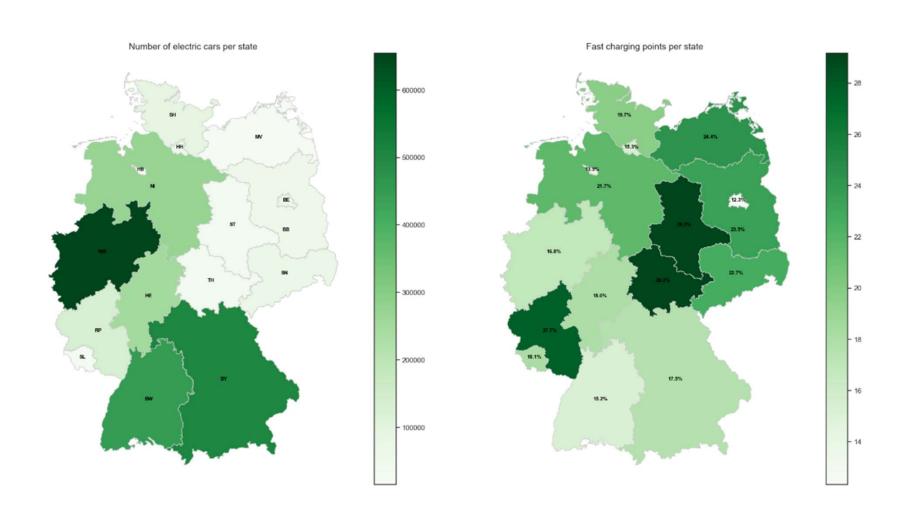




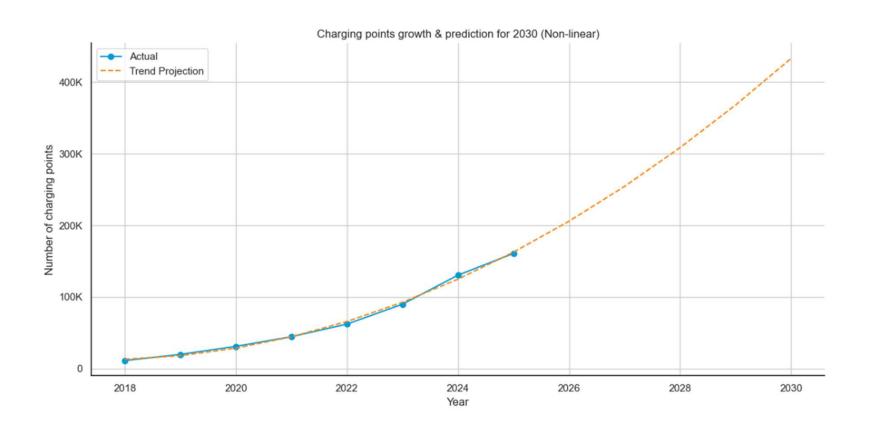
Is it enough?



Fast charging points

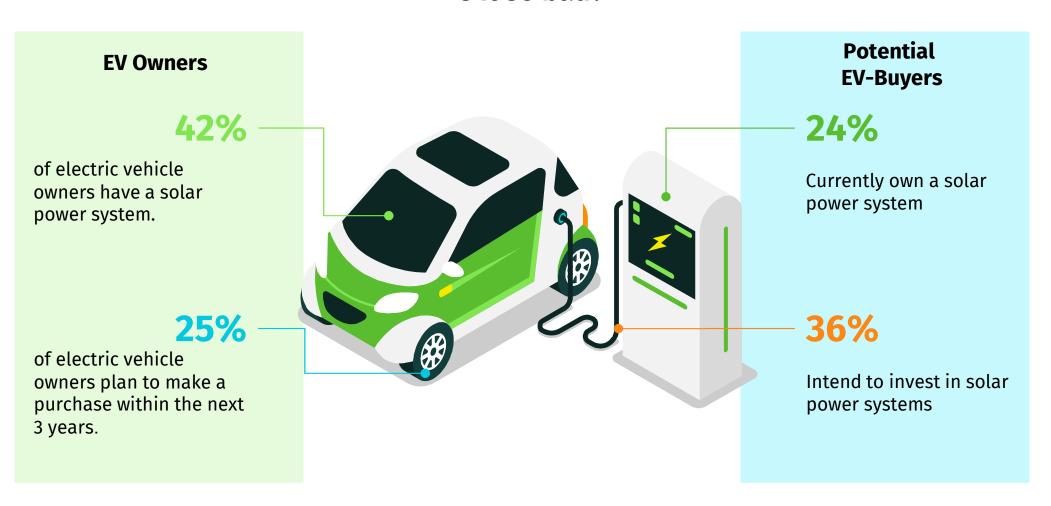


1 million charging points by 2030?



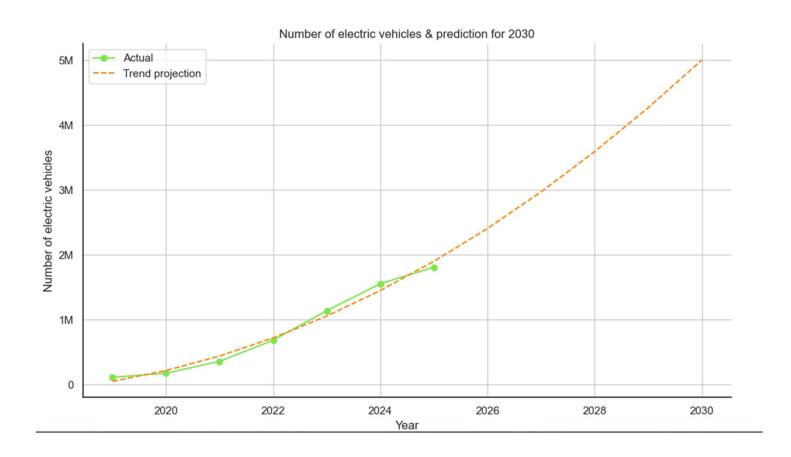


Is it so bad?



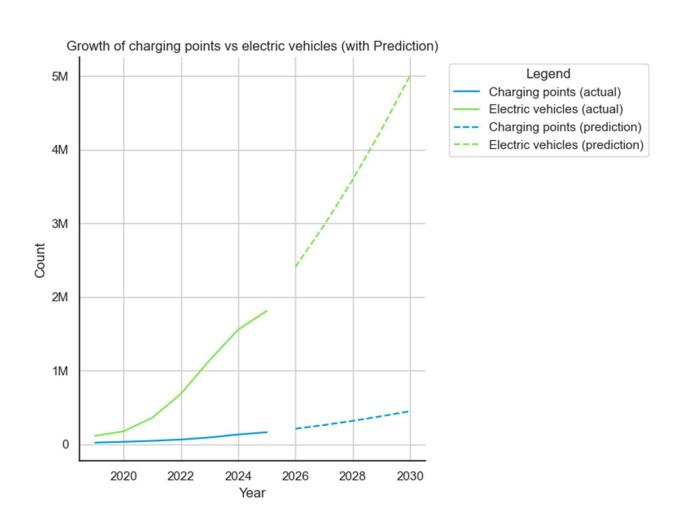
Source: ADAC, 2023

What about the electric vehicles?





Is it getting better or worse?



Conclusions



The infrastructure must accelerate its development, as it is progressing at a much slower rate than the increase in vehicles



Germany is quite unlikely to achieve its targets for 2030



Providing incentives for electric vehicles could potentially enhance the current situation



Thank you



Adeline Silva Schäfer, April 2025

Data Sources

Car registrations in Germany:

https://www.kba.de/DE/Statistik/Produktkatalog/produkte/Fahrzeuge/fz27_b_uebersicht.html?nn=4543062

Charging stations in Germany:

https://www.bundesnetzagentur.de/DE/Fachthemen/ElektrizitaetundGas/E-Mobilitaet/Ladesaeulenkarte/start.html

Gas Stations:

https://www.bft.de/daten-und-fakten/entwicklung-tankstellenanzahl

Population:

https://www.statistikportal.de/de/bevoelkerung/flaeche-und-bevoelkerung



References

Climate Protection Act https://www.gesetze-im-internet.de/englisch_ksg/index.html

ADAC Study (in German):

https://www.adac.de/fahrzeugwelt/magazin/e-mobilitaet/elektroauto-studie/

