

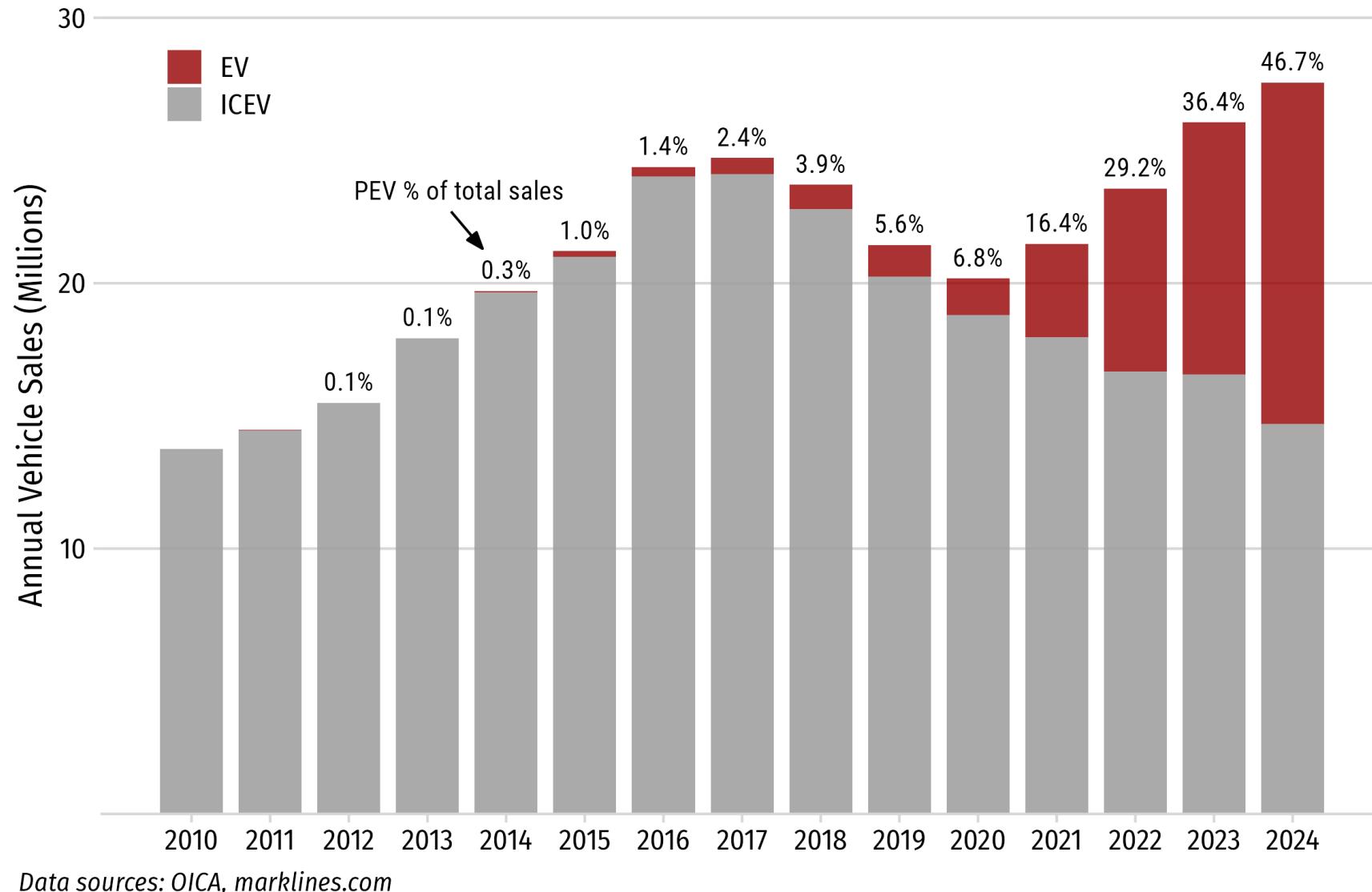
# The EV Transition in the U.S. & China

**John Paul Helveston**, George Washington University

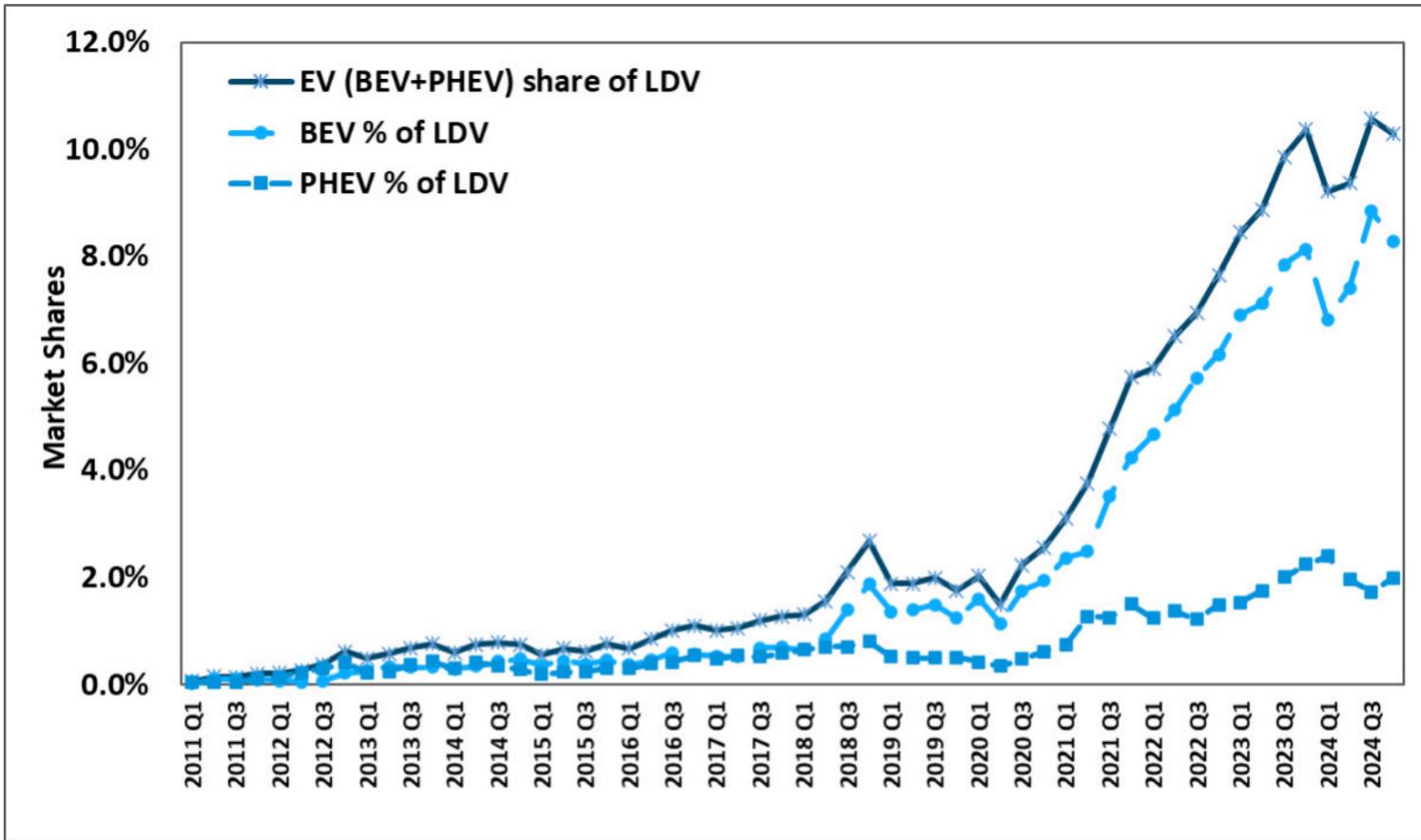
April 08, 2025

# In China, PEV sales grow while ICEV sales slow

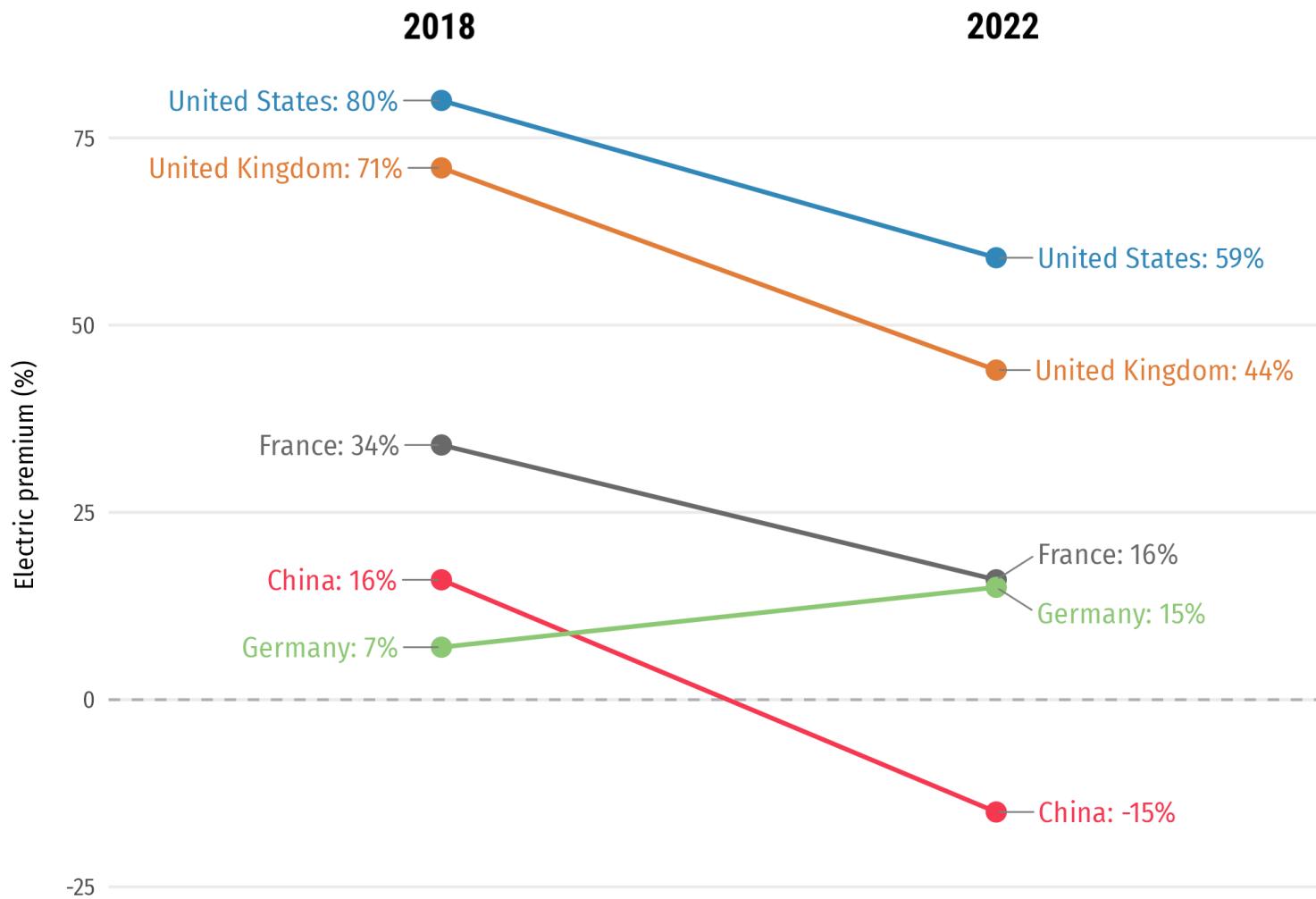
After peaking in 2017, internal combustion engine vehicle (ICEV) sales have declined for 7 straight years



# EV sales in US reaching ~10% of sales



Source: Argonne National Lab, <https://www.anl.gov/ev-facts/model-sales>

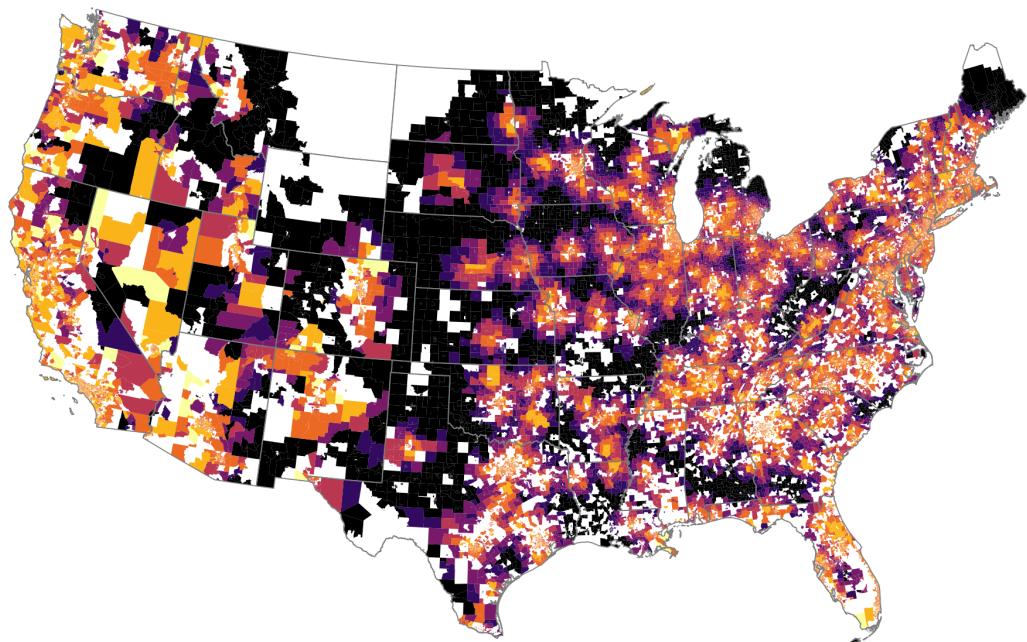


The EV sector has an affordability problem (except in China)

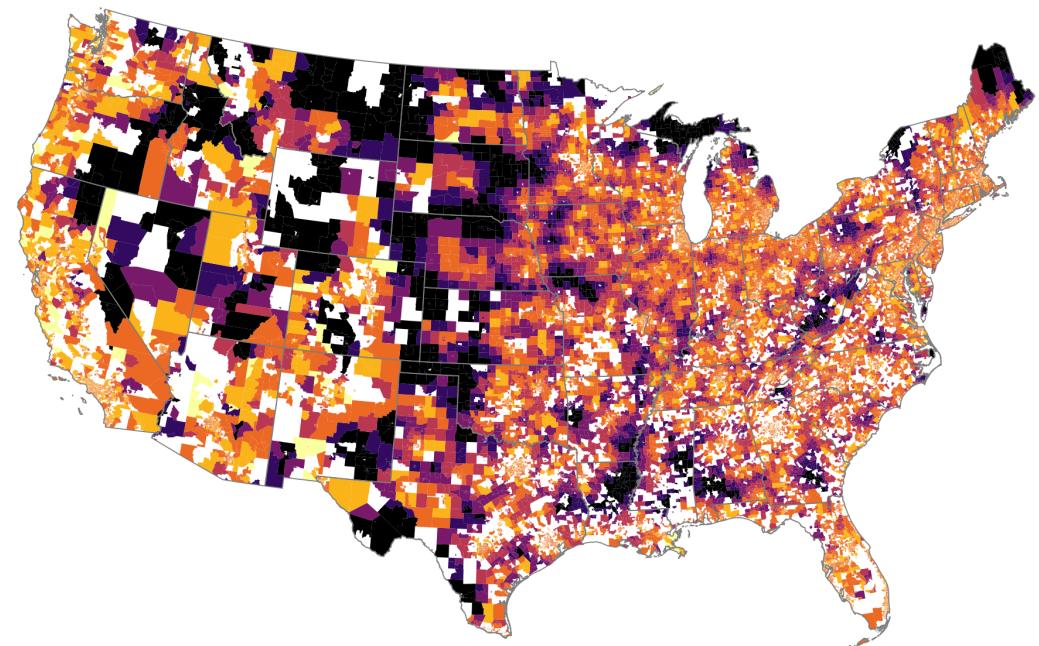
Source: <https://www.iea.org/reports/global-ev-outlook-2024/executive-summary>

# The US still has affordable EV deserts

2016



2021



Additional travel time to nearest BEV (Minutes)



# Things that don't help affordability:

**Tariffs** (100% tariff on imported Chinese EVs)

Effectively banning the use of Chinese suppliers (inc. raw materials) in US EVs

Inflation (...see Tariffs)

# Thanks!

[slides.jhelvy.com/2025-gwu-charging-ahead](https://slides.jhelvy.com/2025-gwu-charging-ahead)

@jhelvy.bsky.social   
@jhelvy   
[jhelvy.com](http://jhelvy.com)   
[jph@gwu.edu](mailto:jph@gwu.edu) 