



Global EV Outlook 2021

Dr Timur Gül, Dr Jacopo Tattini

IEEJ Global Energy Webinar, 11 May 2021

The Clean Energy Ministerial's Electric Vehicles Initiative



Members (2020-21)



Activities:

- **Analysis**
- **Commitments**
- **Collaborative projects**



Coordinator 



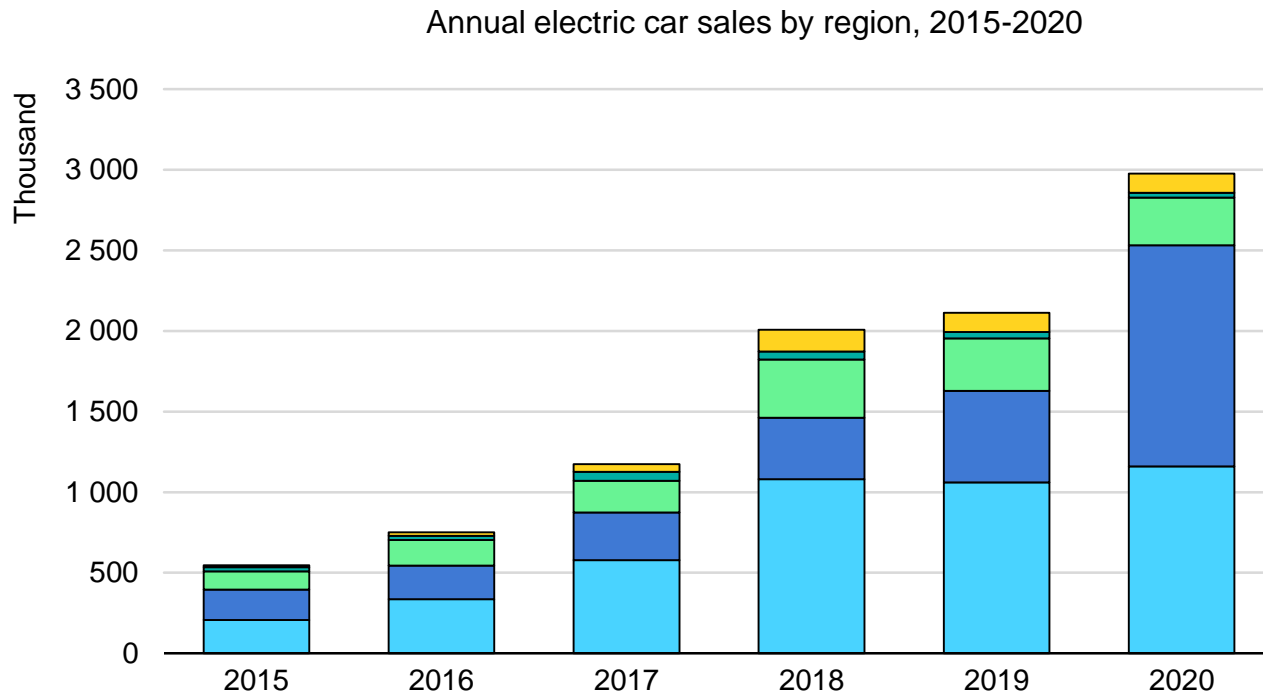
Global EV Outlook 2021

Accelerating ambitions despite the pandemic



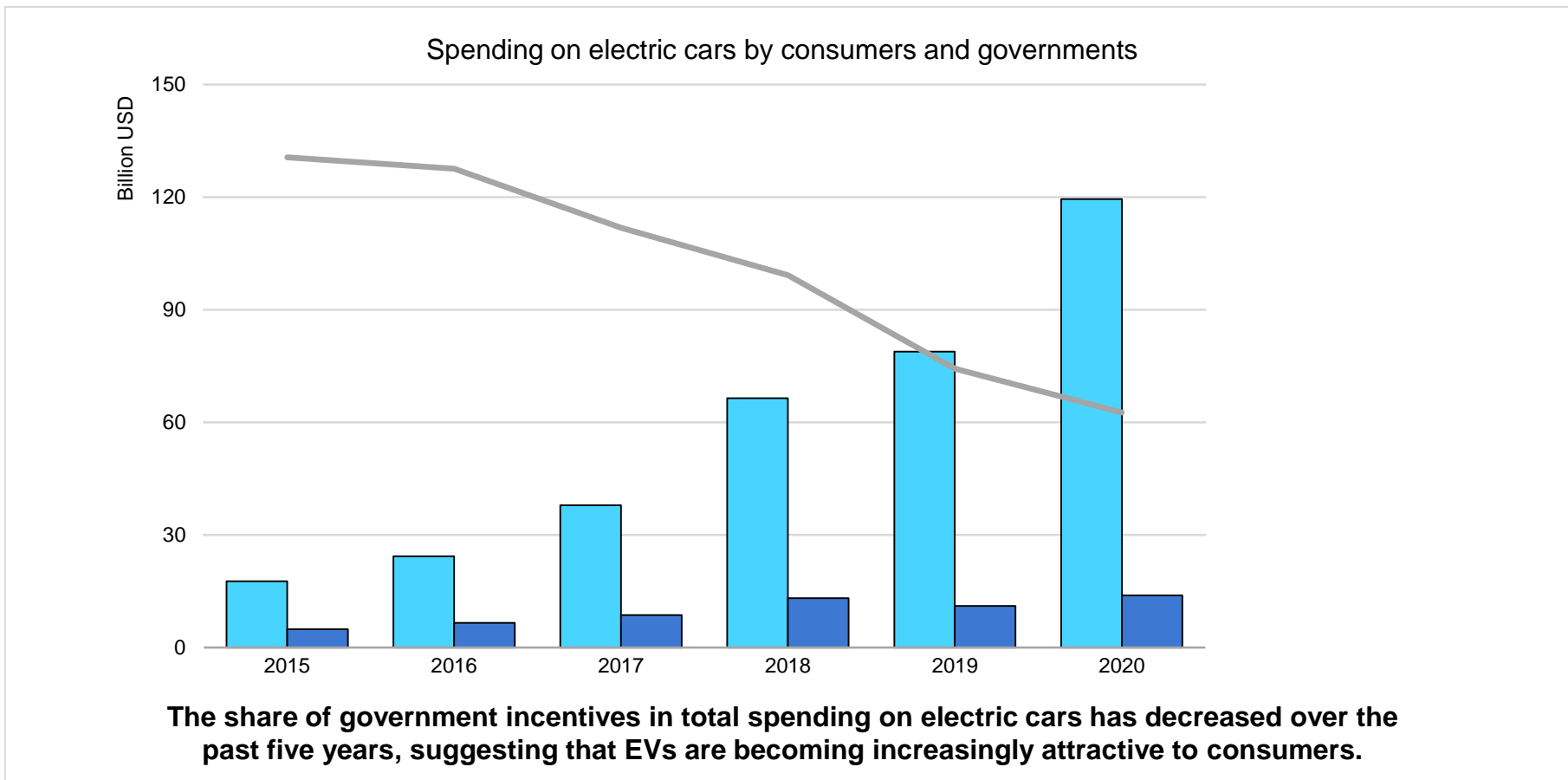
International
Energy Agency

Electric car sales were resilient to the pandemic



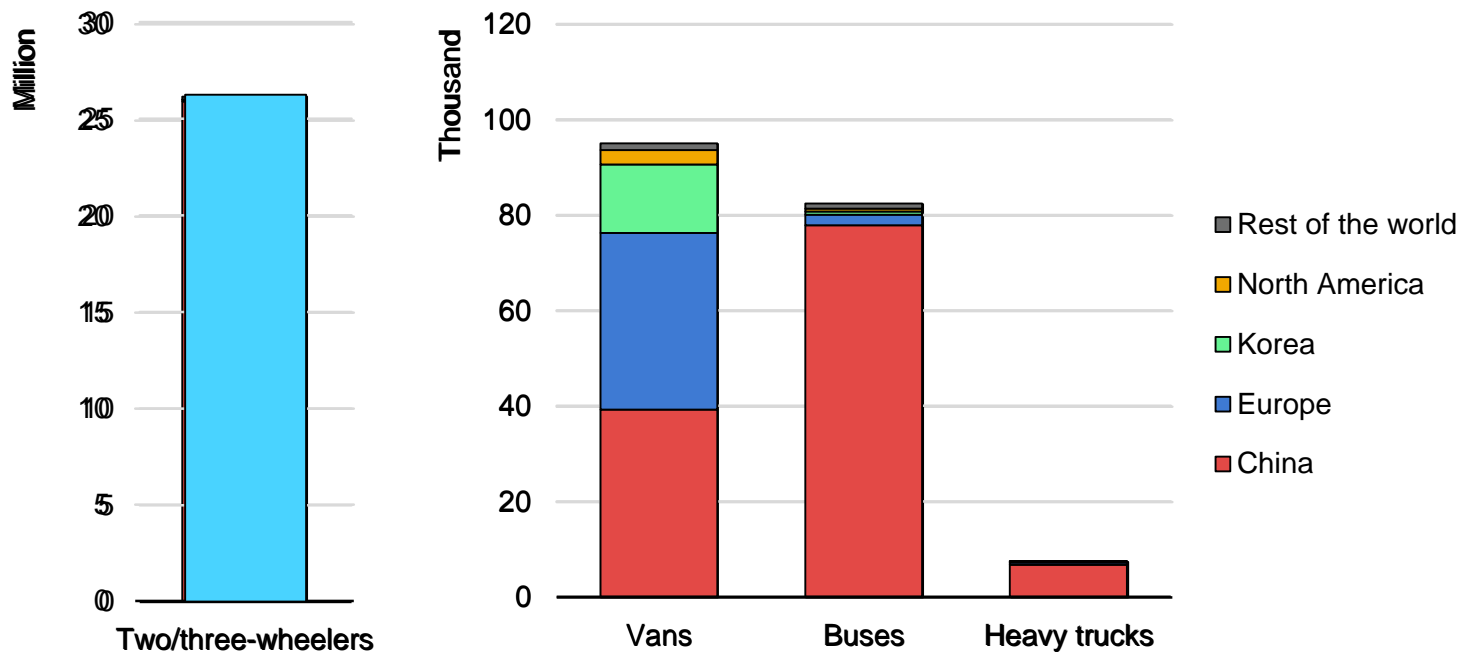
Global electric car sales rose by 41% in 2020 despite falling overall car sales. Europe became the largest electric car market for the first time, overtaking China.

Consumer and government spending on electric cars is evolving



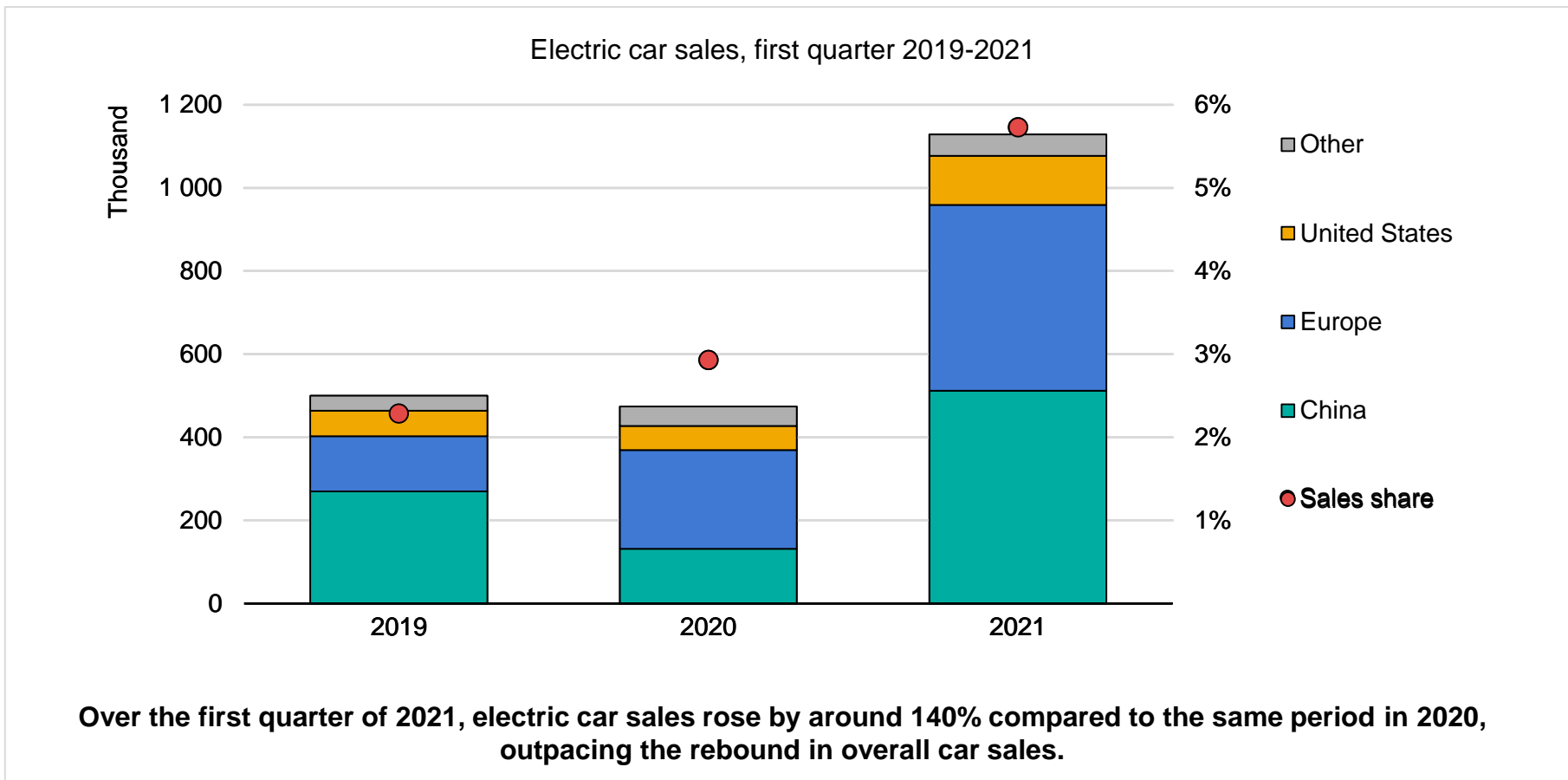
Road transport electrification is not just about cars

Electric vehicles sales by transport mode and region, 2020

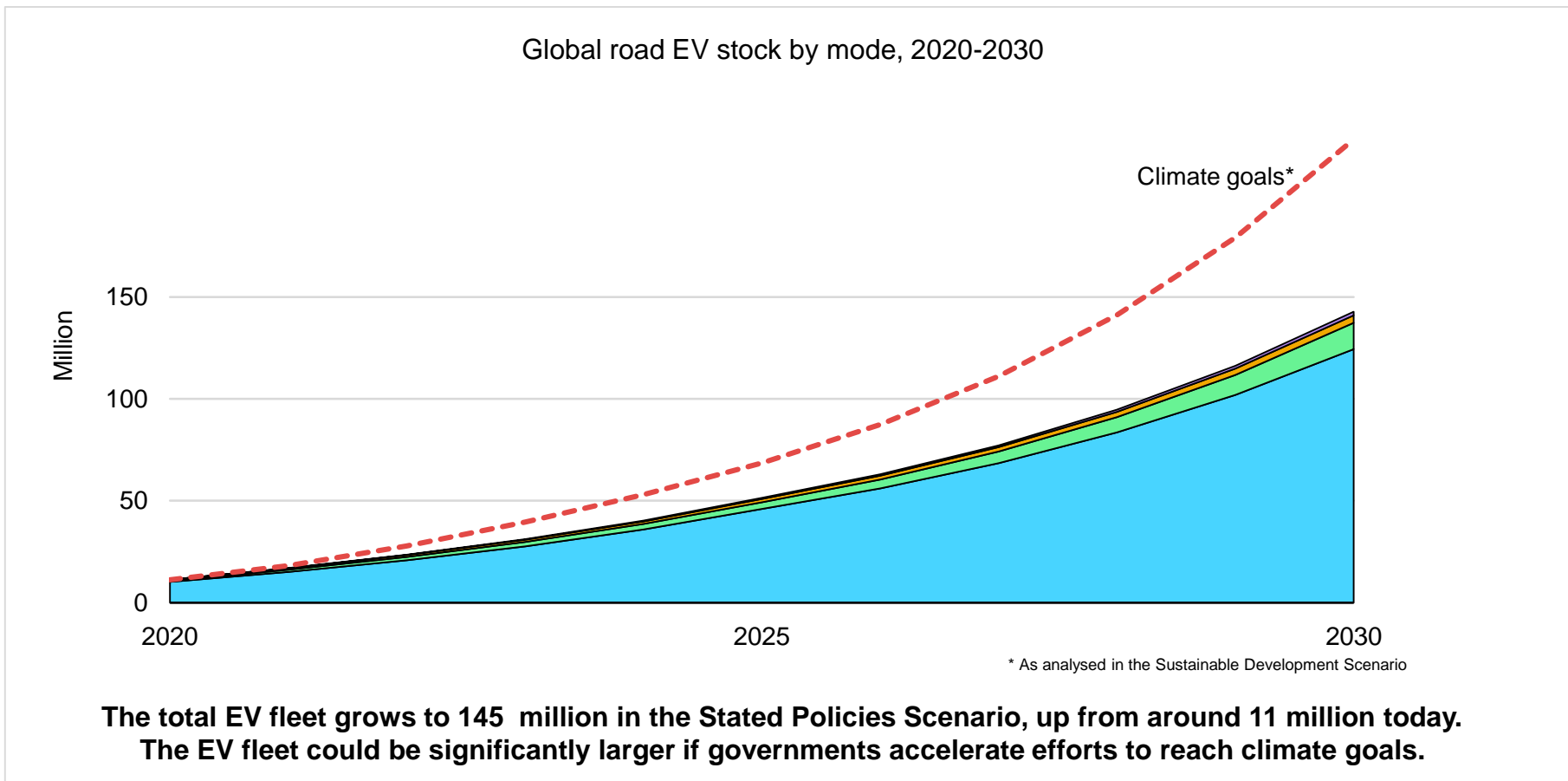


**Sales of electric two-and three-wheelers are one order of magnitude higher than sales of electric cars.
The electrification of other modes is lagging behind but is rising.**

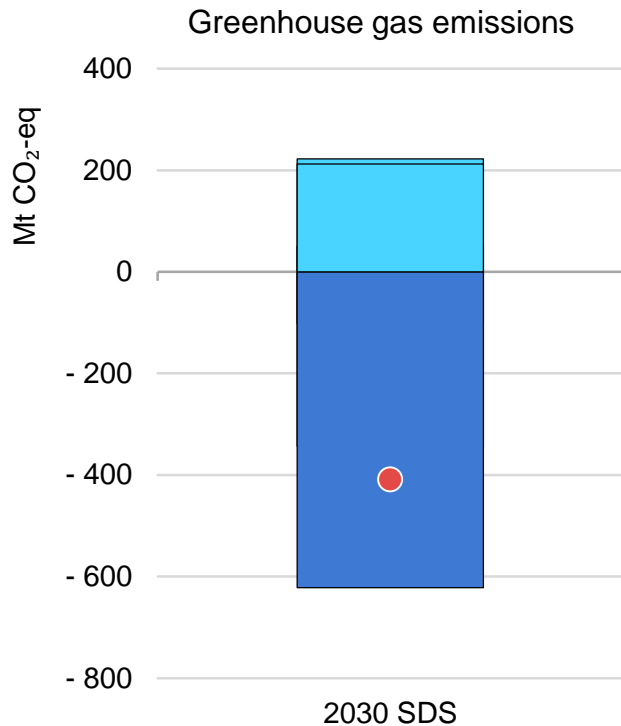
Early signals for continued momentum in 2021



EVs penetrate all road transport modes by 2030



How EVs support climate goals



EVs will continue contributing to net reductions in GHG emissions, especially as the electric grid decarbonises.

Conclusions



- Global EV sales in 2020 were resilient to the impacts of the pandemic on the back of existing regulatory frameworks and subsidies; early market signals in 2021 suggest continued momentum in key markets.
- Recovery packages are an opportunity to accelerate the transition to electric mobility across the entire supply chain; in 2020, charging infrastructure roll-out kept pace with EV growth.
- Existing policies & industry plans suggest that the next decade is set to see much more widespread adoption of EVs; but to reach ambitious climate goals, further action is required in three key areas:
 - Accelerate the transition to e-mobility such as by tightening fuel economy standards and enacting zero-emissions vehicle mandates.
 - Roll-out recharging infrastructure and develop sustainability frameworks for batteries.
 - Decarbonise power generation to fully reap the environmental benefits of EVs.



Contact : report@tky.ieej.or.jp