



ERRA Webinar

A green line-art icon of an electric car with a charging cable plugged into its rear, enclosed in a rounded square frame.

**E-MOBILITY: EV Charging, Network Tariffs
and Related Regulatory Implications**

September 3-4, 2020



Partners:  *Napędzamy elektronobilność!*  National Centre for Climate Change Supported by: 

EU EV policies – Where we stand

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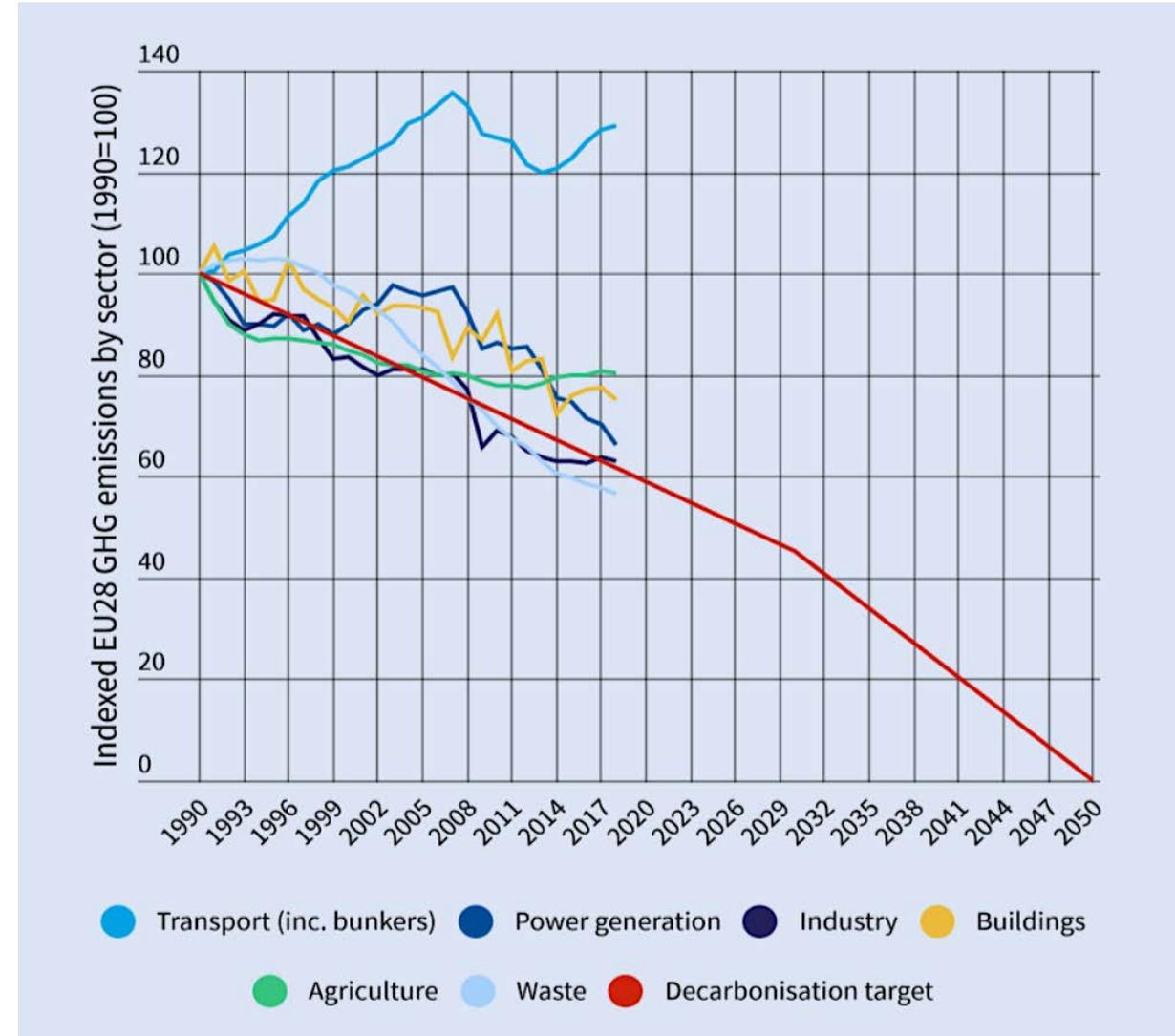
Main issues

1. EV supply and demand
2. Charging infrastructure
3. EV grid integration

EU policy context

- Urgent emission cuts in transport
- Emerging e-mobility industry
- Integration of energy and transport

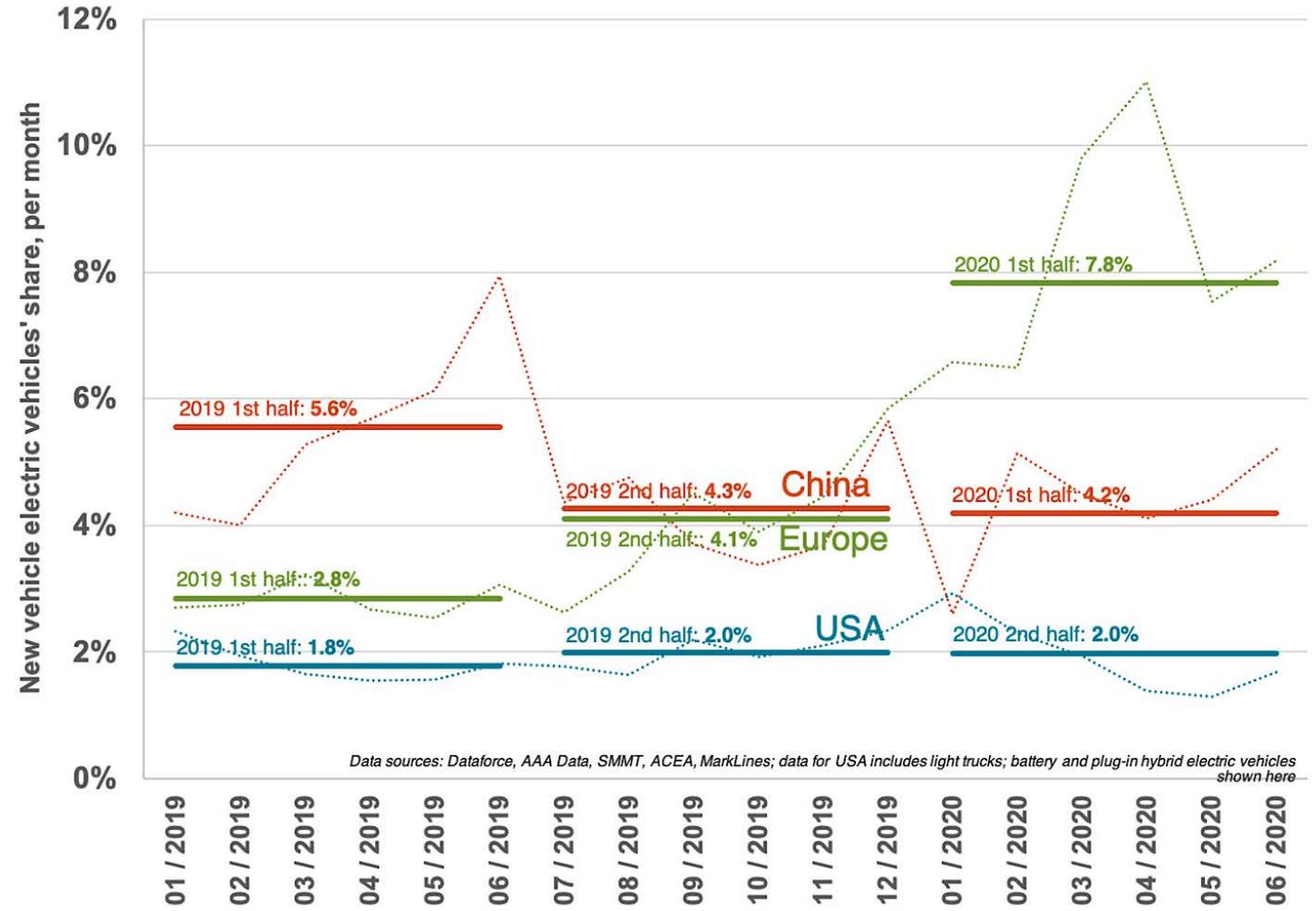
- Green New Deal
- 'Green recovery' opportunity
- Smart sector integration



Source: [Transport&Environment, 2020](#)

1. Drive supply and demand

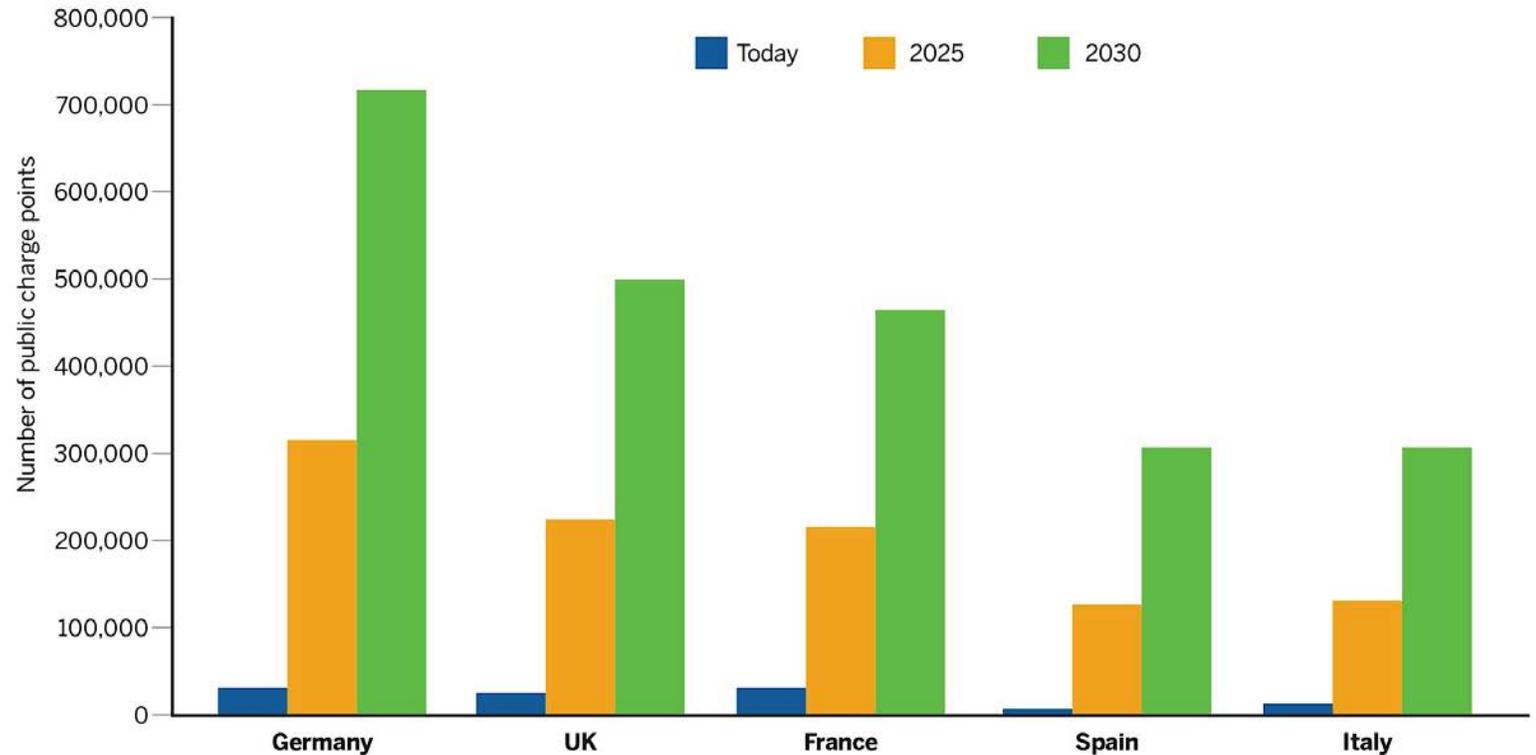
- CO2 standards for cars, vans and trucks
- National scrappage and bonus/malus schemes



2. Build charging infrastructure

- Current obstacle to EV use
- Common vision needed
- “Essential charging network”
- Transparent, consumption-based pricing for EV charging

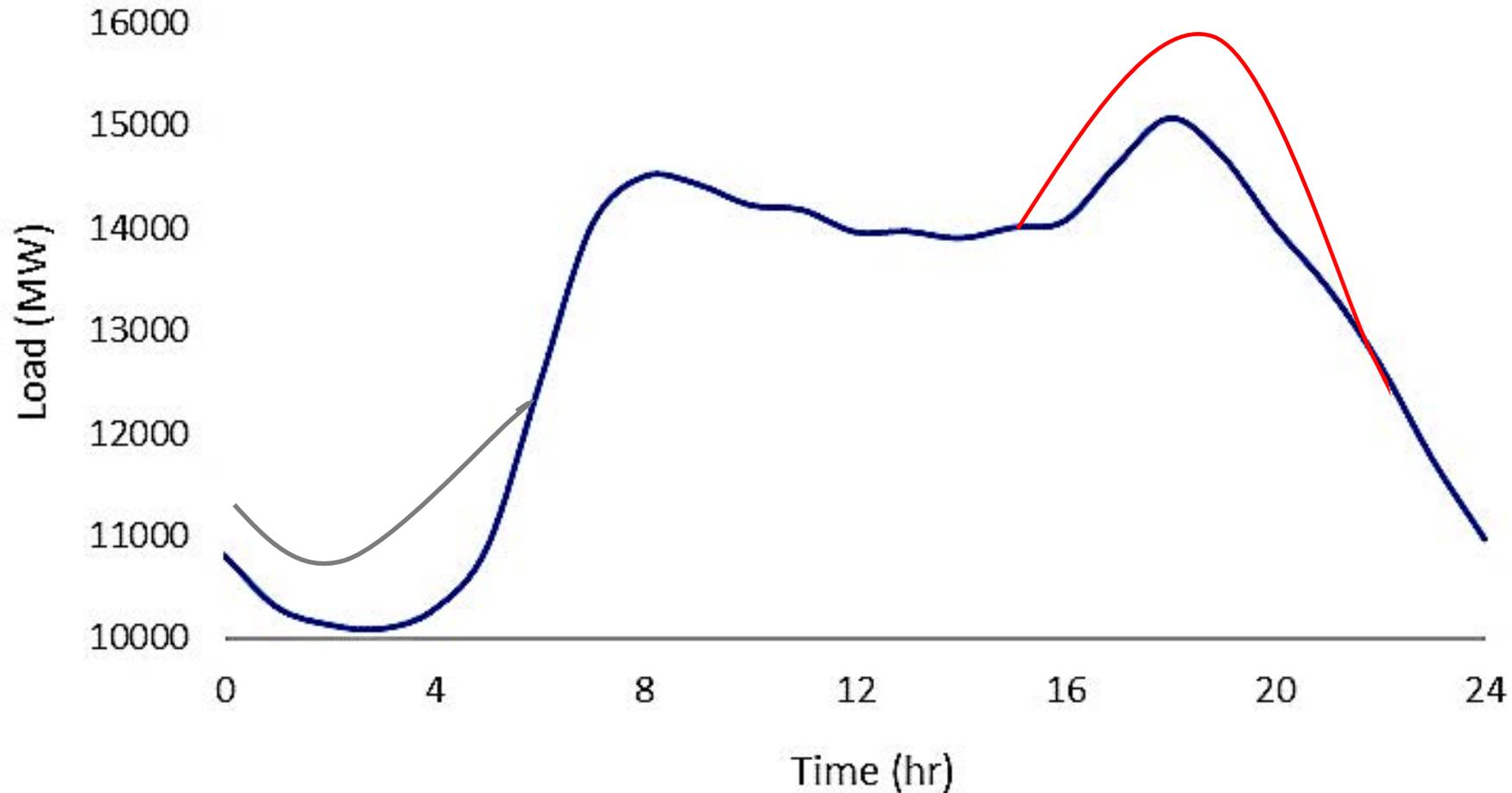
Projected need for public charging infrastructure in Europe's largest car markets



Source: Transport & Environment. (2020). *Recharge EU: How many charge points will Europe and its Member States need in the 2020s*

Source: Transport&Environment, 2020

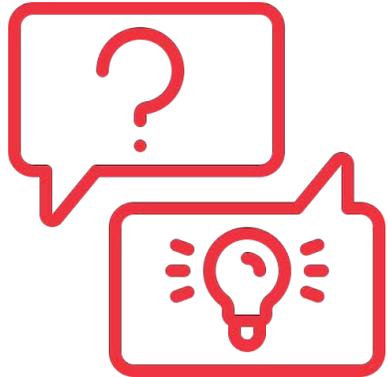
3. Facilitate EV grid integration (smart charging)



Source: own compilation based on [Westnetz](#), peak day 2017; red/green curves illustrative

Outlook and recommendations

- Policy mix of supply, infrastructure and grid integration policies is needed to accelerate e-mobility.
- Regulators can facilitate transport electrification and reduce cost of grid integration by addressing the discussed opportunities jointly.



**THANK YOU
FOR YOUR ATTENTION!**

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About RAP

The Regulatory Assistance Project (RAP)[®] is an independent, non-partisan, non-governmental organization dedicated to accelerating the transition to a clean, reliable, and efficient energy future.

Learn more about our work at raponline.org

RAP resources

- [Building a market for EV charging infrastructure: A clear path for policymakers and planners](#)
- [Start with smart: Promising practices for integrating EVs into the grid](#)
- [Beneficial electrification of transportation](#)