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

Source: ICCT, August 2020
2. Build charging infrastructure

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

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.

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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