Towards zero-emission vehicles: Strategies and policies

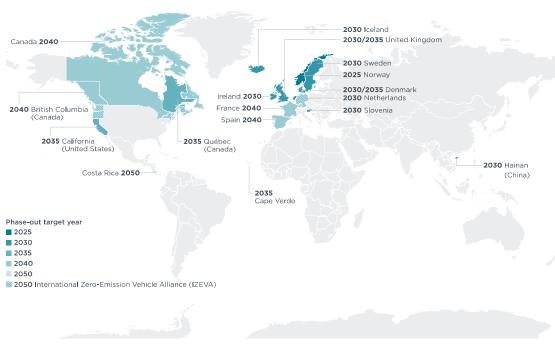
Dr. Sandra Wappelhorst 17/12/2020 Delhi, India



A growing number of governments have set time frames for phasing out sales of new ICE cars

Government targets for phasing out ICE cars (status: November 2020)

- Announcements to phase-out new combustion engine car sales
- Explicit timeline
- Publication of targets in official national policy documents

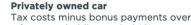


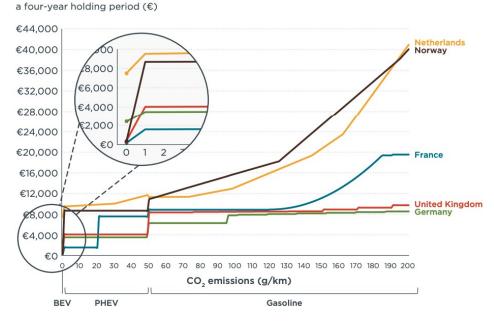
Governments with set targets for 100% phase out of new internal combustion engine passenger car sales* (Status: end-November 2020)



*Some countries have only set targets for the phase-out of gasoline and diesel cars. Denmark will allow the sale of new plug-in hybrid electric cars in the first phase. The United Kingdom will allow the sale of new plug-in hybrid and full hybrid cars in the first phase.

The Netherlands, Norway, and France offer consumers high tax benefits for low- versus high-emission cars

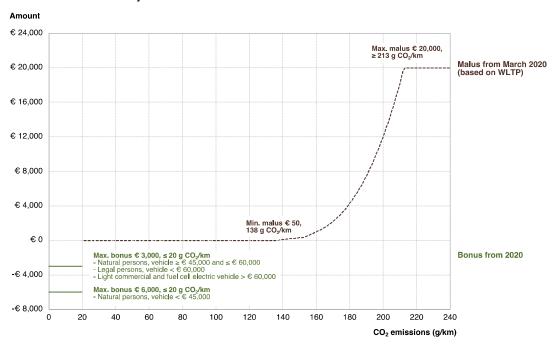






France has strong fiscal measures in place to electrify its vehicle fleet

Bonus-malus vehicle tax system for new vehicles in France in 2020





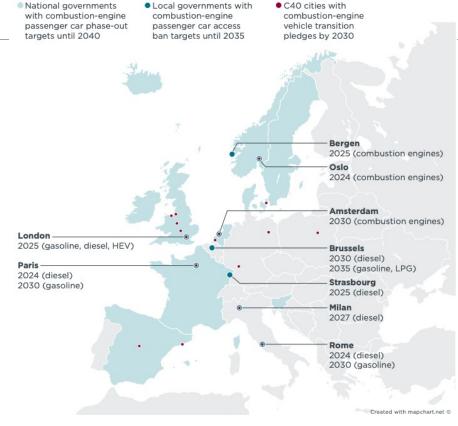
Source: Sandra Wappelhorst (2020), Actions speak louder than words: the French commitment to electric vehicles, https://theicct.org/blog/staff/actions-speak-louder-words-french-commitment-electric-vehicles

Additional cities have set detailed timelines for restricting

ICE vehicles

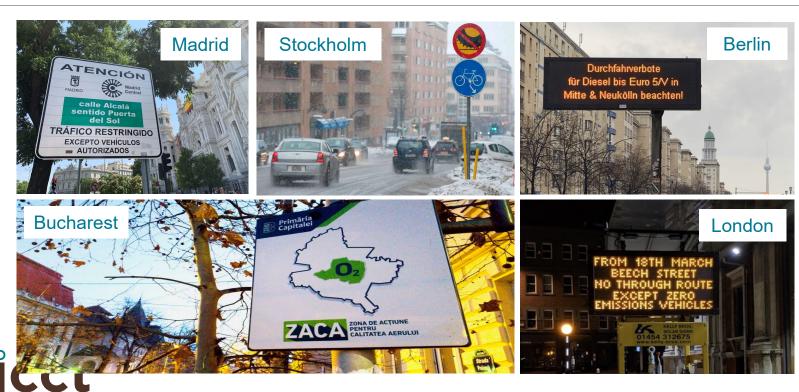
Local government targets for ICE vehicle driving restrictions (status: December 2020)

- Announcements to gradually prohibit gasoline/diesel cars or combustion engine cars altogether to drive in certain city areas
- Explicit timeline
- Publication of targets in official local policy documents





Many European cities have implemented some form of urban access regulations to restrict ICE vehicles



THE INTERNATIONAL COUNCIL

The transition to zero-emission vehicles requires a complex system of regulation, incentives, and local action

Global and European experience show what it takes to launch the electric vehicle market

- ▶ Regulation: Long-term CO₂ and electric vehicle regulations ensure investment, model availability
- ► Incentives: Address short-term (~5 year) market cost barrier
- Charging infrastructure: Provide convenience, consumer confidence, education
- Cities: Promote electric vehicles locally (urban restrictions, preferential access)

Lessons learned on the transition to electric

- Just one of the above actions is insufficient; comprehensive action needed
- Stable regulatory/incentive policy is key; uncertain/shifting policy is disruptive
- Encourage many stakeholders to engage



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