Towards zero-emission vehicles: Strategies and policies

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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

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 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
Questions?
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