



E-mobility: Global trends and opportunities for Asia

(Picture by Sanu N from Wikimedia)

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SLOCAT Partnership on Sustainable, Low Carbon Transport

Powering the sustainable, low carbon transport revolution with ambition, solutions and collaboration



International, multi-stakeholder
ecosystem



Primary focus:
Land transport
All mobility modes



Geographic footprint:
Global South

3 mutually-reinforcing work streams



Knowledge and Policy Analysis



Advocacy and Engagement



Dialogue and Networking

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Overview of e-mobility

7.2 million electric cars in 2019

- **China, Europe** and the **US** drive the growth of electric cars
- **Norway** recorded 69% share of plug-in hybrid and battery-electric cars in sales during the first half of 2020

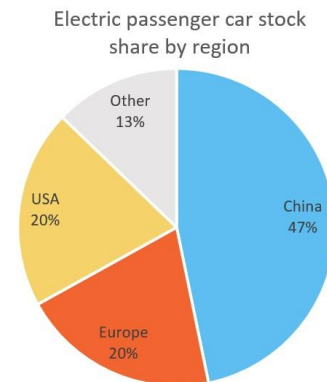
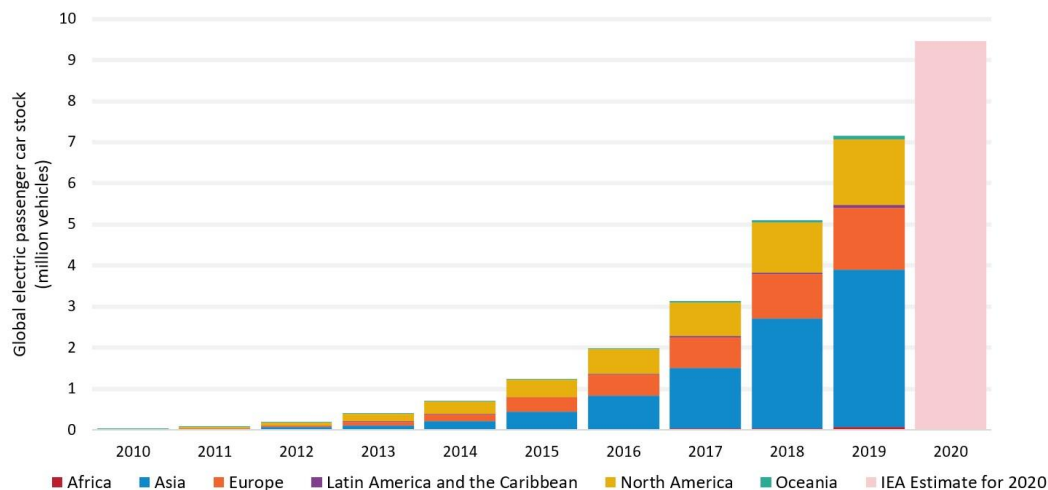
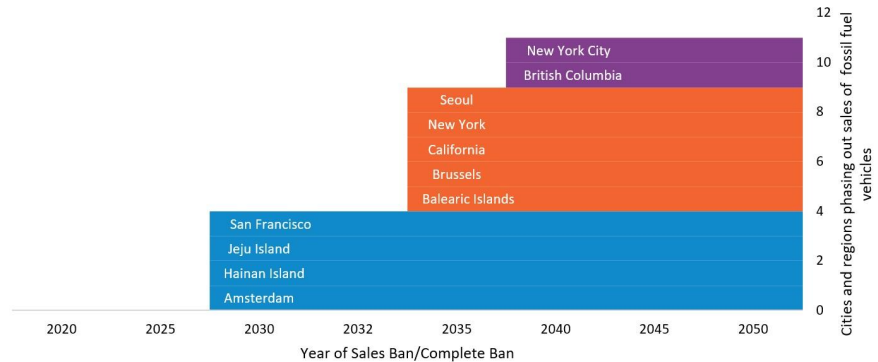
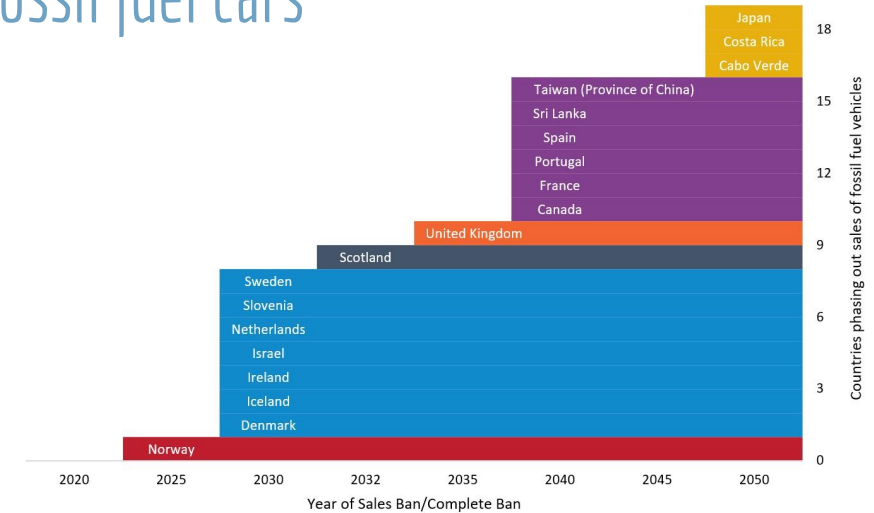


Figure from SLOCAT's Transport and Climate Change Global Status Report 2020, to be released in March 2021, more information here: <https://slocat.net/tcc-gsr/>



Countries and regions phasing out fossil fuel cars

- 63 countries have a target on electric vehicle penetration
- 19 national entities announced the phase-out of diesel and gasoline cars by a certain year
- At least 11 cities and sub-national entities have phase-out targets



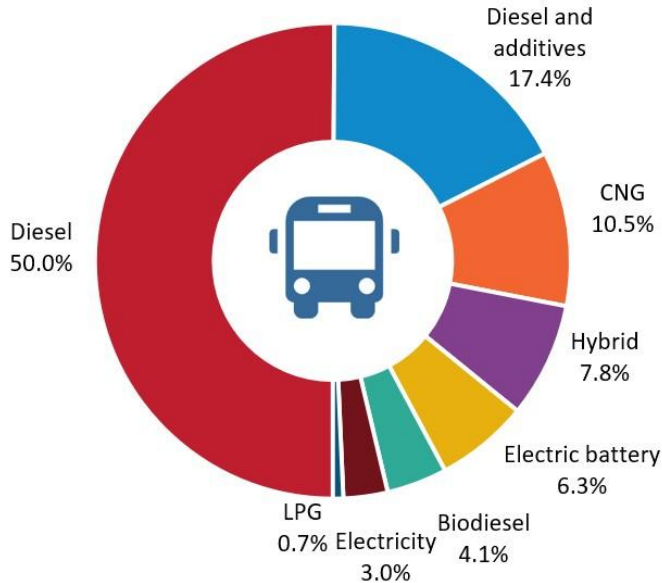
Find more targets in our e-mobility overview on targets and trends:

<https://slocat.net/e-mobility/>



Popularity of electric buses

Bus propulsion systems as of 2019



- Over 400 cities employ electric buses, a total of 510,000 vehicles have been manufactured
- **China** operates 95% of the world's electric bus fleet
- Total cost of ownership for electric buses lower than conventional buses in many cities

Figure from SLOCAT's Transport and Climate Change Global Status Report 2020, to be released in March 2021, more information here: <https://slocat.net/tcc-gsr/>





Key opportunities for e-mobility in Asia



Two- and three-wheelers



Collective transport
(buses, taxis)



Freight transport



Picture of Öresundskraft_Elbilspool by Isæk/wikimedia

Combine them with
renewable energy



Conclusion



E-mobility in the bigger context of sustainable mobility

- Linkage to renewable energy needed
- E-mobility plays important role in transport decarbonisation but it isn't the silver bullet

A-S-I framework



Avoid

unnecessary transport



Shift

to low carbon transport modes



Improve

Vehicle design, fuel efficiency and energy sources



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