Global Electric Mobility Programme

Shifting to Efficient and Zero Emissions Vehicles in the Global South

13-15 June 2022, Nairobi, Kenya
A Global Approach is needed

• The global vehicle fleet is set to double by 2050
• All of this growth, 1+ billion vehicles, will take place in non-OECD countries
• The transport sector is set to go from one quarter to one-third of all energy related GHG emissions
• Many conventional vehicles are still going to be added, with a time-lag in fleet turnover of 20 years
What does this mean for emissions?

- Compared to 2005, transport emissions are set to more than double with current policies.
- To reach the 90% decarbonization target all options – avoid, shift, improve – and all countries need to be included.
“High growth rates are now appearing in electric vehicles, electric bikes and electric transit, which would need to displace fossil-fuel powered passenger vehicles by 2035-2050 to remain in line with 1.5C consistent pathway.”

(IPCC October 2018)
Global EV fleet 2021

Electric car stock (million)

- Other PHEV
- Other BEV
- United States PHEV
- United States BEV
- Europe PHEV
- Europe BEV
- China PHEV
- China BEV

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Electric car registrations and sales share in selected countries/regions, 2016-2021
Electric car sales and models available by region 2016-2021 available in selected emerging markets
Electric two/three-wheeler sales share by region 2015-2021

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Electric bus and truck registrations and sales shares by region, 2015-2021

**Buses**

- Electric bus registrations (thousand)
- Sales share (dots)

**Trucks**

- Electric truck registrations (thousand)
- Sales share (dots)
About UNEP’s Global Electric Mobility Programme

- Supports more than 50 low and middle-income countries with more than USD 70 million in grants and over USD 250 million in loans
- Funded by the GEF, the German Climate Initiative, the EU, foundations and bilateral development aid
- Jointly implemented with partners such as ADB, EBRD, IEA, Centro Mario Molina Chile, UNDP, UNIDO and the ……………… project
- Comprises a global support programme for e-mobility advocacy, the creation of regional communities of practice & e-mobility market-places
- Linked with other global and regional initiatives – TUMI Volt, ZEBRA, ZEV Alliance etc.
Pillars of the Programme

**Electric 2&3 wheelers**
- Economically viable
- Technically mature
- Charging at home outlets feasible
- High growth rates of two-wheeler market in Asia and Africa

**Electric light duty vehicles**
- Close to break-even with conventional cars
- Technically mature
- Highest mitigation potential of global transport energy use and emissions

**Electric buses**
- Economically viable on high-capacity lines
- High potential to improve local air quality
- Manageable charging infrastructure requirements
Structure of the Programme

Supporting 50 Country Projects

4 Regional Support Platforms
- UNEP
- ADB
- Centro de Movilidad Sostenible
- EBRD

Global Thematic Working Groups
- WG 1: Electric LDVs
- WG 2: Electric 2&3W
- WG 3: Electric HDVs
- WG 4: Charging infrastructure, batteries & grid integration

Regions
- Africa
- Asia & the Pacific
- Latin America & the Caribbean
- Central and Eastern Europe, West Asia and Middle East
About the Country Projects

- Building capacity and creating awareness
- Establishing roadmaps and strategies
- Developing national policy frameworks
- Creating business models and finance schemes
- Piloting electric vehicles on the ground
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About the Regional Support and Investment Platforms

The Regional Platforms are open to all countries and cities in the region, interested in developing electric mobility projects.
About the Global Thematic Working Groups

- Develop and discuss global and regional targets for the shift to electric mobility;
- Provide policy advise and bring forwards the global harmonization of e-mobility standards and regulation;
- Develop analytical tools and knowledge products to support e-mobility projects world-wide
- Support e-mobility pilots with technical guidelines, methodologies for data collection and reporting;
- Develop business models and finance schemes ready for adaptation in national projects
- All knowledge products will be accessible through the emobility toolbox https://emobility.tools/
In partnership and cooperation with
Thank you!