Total Cost of Ownership (TCO) Tool

gef.emobility.wg1@iea.org

Shane McDonagh
Transport Analyst and Co-Ordinator of the
GEF E-Mobility Programme’s WG1
The GEF-7 E-Mobility Programme

- 52 highly diverse participating countries
- Promoting electro-mobility across multiple use cases
- Wide variety of projects from policymaking to public buses
- Our current focus is Light-Duty Vehicles (WG1)
- Colleagues focus is grid integration (WG4)
Electro-mobility in emerging economies:

- Applicable to a wide range of users
- Learning opportunities relevant to all regions
- Understand the effect policies might have on costs
- Awareness the technology is improving

Sales outside China, Europe, and the US are much slower (Source: GEVO 2022)

Cost and availability improvements increase the opportunity (Source: Tata Power)
Demonstration
Total Cost of Ownership
TCO tool

Learning opportunity for users

- **Understand key concepts** – Various powertrains, cumulative costs…

- **Trade-offs** – Upfront vs. operating costs, annual distance & marginal cost…

- **Policy relevant lessons** - Financing conditions, potential effect of subsidies…

*What changes can increase EV competitiveness?*
Features of the tool

Summary

- Policy and cost relevant lessons throughout
- Only variables most important to lessons and costs included
- Caters for both high-level and more detailed comparisons
- Real-time results so users can perform sensitivity analysis

Tool is hosted for free and available to anyone from the IEA website
Please contact us if you have any questions

gef.emobility.wg1@iea.org

Thank you!