# Project Title: Promotion of Electric Motorbike Adoption for a Sustainable Transport Sector Partners: MPWT and GGGI, Location: Phnom Penh, Cambodia

## **Background and objectives**

### **Background**

- Mobility is part of everyday life and it plays a critical role in the development of a society. In Cambodia, the Motor vehicles are a convenient and popular mode of transportation. However, motor vehicles produce negative externalities such as air pollution and increased greenhouse gas (GHG) emissions.
- Transport is one of key contributor of GHG emissions in Cambodia and estimated to emit more than 5 million tons of CO2-eq in 2016, which is more than double the amount in 2005 (BRU, 2020).
- Misconception and lack of trust of consumers about the EV technology is one of major challenge for electric motorbike market penetration
  Electric motorbike market remains very small in Cambodia, a missed opportunity to reduce GHG emissions and air pollution from the transport sector.

# GUIDANCE

# Results

Key guidance documents developed: (1). Promoting the registration of Electric Motorbike(EMs) in Cambodia, (2). Development and installation of EM's Battery Charging Station and (3). EM's Battery Waste Management.



Piloting the demonstration of Electric Motorbike for adopters in both Public Sector (30 EMs) and private sector (137 EMs) through subsidy scheme.



Awareness raising on Electric Motorbike Technology and Its Environmental and Social Benefits.



# **Objectives**

- Overall objective of the project is to remove some key barriers to the scaling-up of two-wheel electric motorbikes in Cambodia, including regulatory and awareness barriers.

- Key objectives



Seeks to promote EV adoption through a mix of policy measures,

#### **Capacity development for concerned officials,**



Demonstration and increased exposure to two-wheel electric vehicle fleets in the public and private sector.



adoption (pre, during, and post).



Producing an educational video of Electric Motorbike to raise awareness and promote the adoption of electric motorcycles.



Policy brief on lessons learnt and recommendations from the Pilot.









#### Approaches and technology used

- Development of priority regulations to facilitate adoption of electric motorbikes
- Promote the registration of Electric Motorbike.
- Increase charging infrastructure and space through incentives.
- Reduce battery waste export fees.
- Develop guidelines for battery disposal and recycling sector.
- Establish battery take-back schemes.
- Establish an EMs networking.
- Integrated Electric Motorbike into the government and private fleets.
- Strengthening instructional capacities and public awareness on the use of electric motorbikes
- EMs showcases (MPWT, ITC, and EMs company)
- Social media marketing through a subsidy scheme.
- Integrated EMs into government and private fleets.





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# Scale up plan

✓ Integrating EMs supported guidance (EMs registration, charging station and space, and battery waste management) into a higher level.

Providing subsidy scheme for EMs battery charging/swapping station.

- Demonstrating and increasing exposure to two-wheel electric motorbikes at the potential historical and tourism site.
- Conducting KAP survey of public and private on future electric vehicle

- Training workshop on EMs technology and utilization.
- Educational video on EMs promotion for awareness raising campaign.
- Demonstration of existing technologies through early adopters (both public and private)



✓ Demonstrating the exposure from electric two-wheeler to electric vehicle.



