

Project Title: Promotion of Electric Motorbike Adoption for a Sustainable transport sector,

Partners: MPWT and GGGI, Location: Cambodia

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 e-bike market penetration.
- Electric motorbike market remains very small in Cambodia, a missed opportunity to reduce GHG emissions and air pollution from the transport sector.

Objectives

- This project aims to remove some key barriers to the scaling-up of two-wheel electric motorbikes in Cambodia, including regulatory and awareness barriers.. The specific objectives includes below;
 - 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

Key technologies and approaches introduced

- Development of priority regulations to facilitate adoption of electric motorbikes

- Increase charging infrastructure through incentives.
- Streamline the import tax and registration process.
- Reduce the import tax for EMs.
- Reduce battery waste export fees.
- Develop guidelines for the battery disposal and recycling sector.
- Establish battery take back schemes.
- Establish an EV association.
- Establish minimum standards policy for EMs.
- Integrate EMs into Government fleets.

- Strengthening instructional capacities and public awareness on the use of electric motorbikes

1. An EM showcase.
2. Integrating an EM campaign into the biannual eco-school award ceremony.
3. Social media marketing.
4. Integrating EMs into government fleets.
5. Incorporating sustainable transport into the school curriculum.

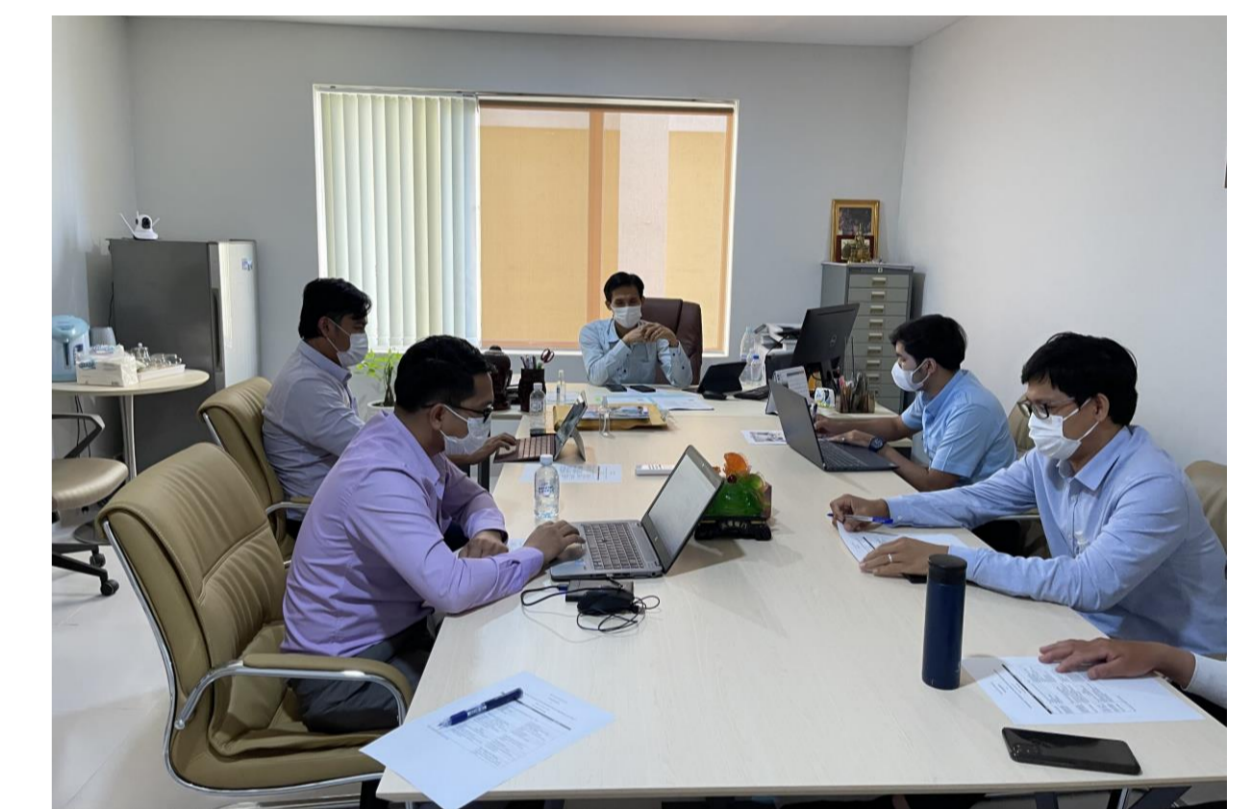
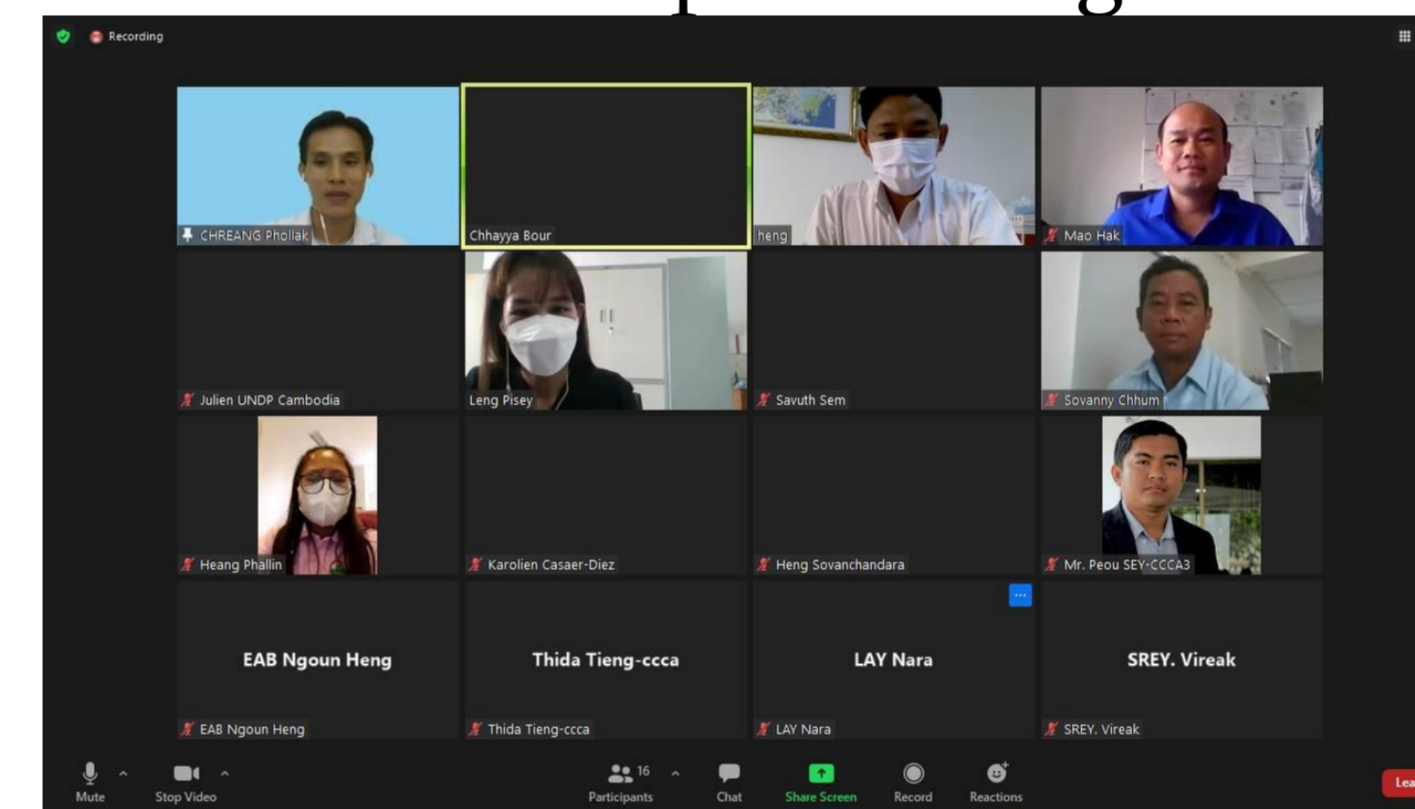
- Demonstration of existing technologies through early adopters

Outputs and key activities

- Outcome 1:** The identified priority regulations to ensure quality and safety of electric motorbikes in Cambodia are in place.
 - **Output 1.1:** Priority regulations for electric motorbikes identified
 - **Output 1.2:** At least one priority regulation is developed in consultation with concerned public and private stakeholders
- Outcome 2:** Understanding of electric motorbike technology increases among government officials and consumers
 - **Output 2.1:** Concerned government officials trained on electric motorbike technology, costs and benefits
 - **Output 2.2:** Awareness-raising campaign about electric motorbikes is rolled-out
- Outcome 3:** Increased level of confidence in e-bikes among early adopters
 - **Output 3.1:** Early adoption of electric motorbikes supported in the public and private sectors
 - **Output 3.2:** Improved understanding of user experience from early adopters

Implementation progress

- Draft policy study report has been conducted by GGGI and identifying potential priority regulation and/or policy for promoting the E-bike in Cambodia
- Conducted the review and consult with relevant legal documents in regarding to streamline the registration of e-bike associated with the proposed prioritized regulation for promoting e-bike in Cambodia, stated in the draft policy study by GGGI;
- Conducted consultation workshop with key relevant stakeholders (both public and private sector) for gathering inputs and contribution of promoting the E-bike in Cambodia's market



Key challenges and lessons learnt

Key Challenges:

- The delay of the early start of this project due to impact of covid-19 pandemic
- Time consuming of reviewing the existing regulation of vehicle registration in order for streamlining the registration process of none-tax E-bike, which is imported and declared as container commodity. The Vehicle registration process also included the EV as one of vehicle types, but need tax paper for registration.

Lessons Learnt:

- Some private company raised difficulty of doing the registration of e-motorbike due to the demand of import tax of each e-motorbike since some of them have imported the e-motorbike in container and declare the bike as a whole container.
- Key challenges facing to promote e-bike or e-motorbike in Cambodia includes; unavailability of charging and/or swapping stations, the user's truths in e-bike or e-motorbike due to lacking of second hand market of e-motorbike and its durable physical.