MOT’s EV Development

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11th August 2022

Office of Transport and Traffic Policy and Planning
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1 26 th United Nation Climate Change Conference (COP26)

2 Thailand’s EV Development

3 Electric Vehicle Development Plan in Transport Sector
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1. 26th United Nation Climate Change Conference (COP26)

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3. Electric Vehicle Development Plan in Transport Sector
Thailand's Prime Minister Prayut Chan-o-cha
In his remarks at the World Leaders Summit at COP26

"Thailand attaches to the problem of climate change. We are prepared to collaborate with every nation, and every sector, to reach our common goal of solving the gravest challenge of our time. This is a matter of life and death for our world, and the future of our children."

"Thailand’s willingness to be more aggressive in addressing the climate change challenges in every way and by every means possible, aiming at reaching carbon neutrality in 2050, and Net Zero Emissions in or before 2065."

“Thailand’s Prime Minister Prayut Chan-o-cha”
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Thailand’s EV Development

National Policy

National Electric Vehicle Policy Committee
Chairman : Deputy Prime Minister

4 Subcommittee
1. EV and Component Production
2. Electric Infrastructure Development
3. EV Impact Assessment on Biofuel and GHG
4. Promotion of EV usage

Transport Sector by MOT

Electric Vehicle in Transport Sector Committee
Chairman : Deputy Prime Minister

Implementation
Transport Regulator

Department of Land Transport : DLT

Marine Department : MD

Department of Rail Transport : DRT
## The National Electric Vehicle Policy Committee

<table>
<thead>
<tr>
<th>Order</th>
<th>Target</th>
<th>EV Type</th>
<th>ZEV (BEV Population (Vehicle))</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Year 2025</td>
</tr>
<tr>
<td>1</td>
<td>Usage</td>
<td>PC/PU(^1) (Veh)</td>
<td>225,000 (30%)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MC(^2) (Veh)</td>
<td>360,000 (20%)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BUS/TRUCK (Veh)</td>
<td>18,000 (20%)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Three-Wheelers (Veh)</td>
<td>500 (85%)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Boat (Unit)</td>
<td>130 (12%)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Railcar (Car)</td>
<td>620 (70%)</td>
</tr>
<tr>
<td>2</td>
<td>Production</td>
<td>PC/PU (Veh)</td>
<td>225,000 (10%)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MC (Veh)</td>
<td>360,000 (20%)</td>
</tr>
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<tr>
<td></td>
<td></td>
<td>Railcar (Car)</td>
<td>620 (70%)</td>
</tr>
</tbody>
</table>

\(^1\) PC: Passenger Car / PU: Pickup  
\(^2\) MC: Motorcycle
1. 26th United Nation Climate Change Conference 26th (COP26)

2. Thailand’s EV Development

3. Electric Vehicle Development Plan in Transport Sector
Expansion of Electric vehicles

BMTA’s Transition Plan. (ICE->EV-Bus)

Intercity Bus -> Transition Plan Development
(The Transport co., ltd)

EV on Train Development (State of Railway: SRT)

Ministry of Transport

Service Operator

Regulator

Standard Specification/ Revise the Regulations • Prepare Incentive to Transition (Bus / Taxi)

1. EV-Bus

2. Green Energy Taxi

Revise the Regulation • Promoting EV-Boat in canal river and sea.

Study to Specification of EV on Train
3 Electric Vehicle Development Plan in Transport Sector

3.1 Promoting Electric Technology for Bus (EV Bus)

**DLT** has updated and drafted related EV regulations and registration.

**DLT** has approved EV bus route concession in 90 routes. (BKK + Province)

**BMTA** has a plan to replace old conventional bus with EV bus. And plan to make a deal with private company to hire a contract service for operation in a few routes at the beginning phase.

**The Transport Co., Ltd.** has a plan to replace old conventional bus with a new EV bus in 401 veh. In 1st Phase with EV minibus 56 Veh. And has plan to replace old conventional to EV Bus in the next phase.
3 Electric Vehicle Development Plan in Transport Sector

3.2 Promoting Electric Technology for Boat (EV Boat)

**Action Plan 2021-2023**

<table>
<thead>
<tr>
<th>River</th>
<th>2020-2021</th>
<th>2022-2023</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chao Phraya</td>
<td>12</td>
<td>+15</td>
</tr>
<tr>
<td>Khlong Sansab</td>
<td>1</td>
<td>+12</td>
</tr>
<tr>
<td>Khlong Phadung Krung Kasem</td>
<td>8</td>
<td>-</td>
</tr>
<tr>
<td>Khlong Damnoen Saduak</td>
<td>2</td>
<td>+1</td>
</tr>
<tr>
<td>Sea</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sichon Pier– Khao Phlai Dam</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>24</td>
<td>+28</td>
</tr>
</tbody>
</table>

**EV BOAT**

- 2021 = 24 vessel
- 2022 = +28 vessel

**Passenger Ferry**

- 2021 -> 3,434 seats
- 2022 -> +4,238 seat

Reduce Registration Fee 2022

Total 52 Vessel
## 3.3 Promoting Electric Technology for Train (EV on Train)

<table>
<thead>
<tr>
<th>Year</th>
<th>Actions</th>
</tr>
</thead>
</table>
| 2021 | • Set up timeline to develop electrification on long distance trains (SRT/ DRT.)  
• Feasibility study for applying battery power on long distance trains (SRT/DRT)  
• Establish The Institute of Railway System Technology Research and Development  
• Signing MOU with education institute to develop technology EV on train (SRT) |
| 2022 | • Feasibility study EV on train |
| 2023 | • EV conversion to conventional train  
• Testing in Lab  
• Testing in Track |
Roadmap to transition public transport to electric vehicle (Road Water and Rail)

- Pilot Project
- Promoting and Incentive
- Transition ICE to EV by State-Enterprise

Planning for large-scale transition to electric vehicle (by private sector) were included

Year 2022-2037
Thank you for Your Attention

11th August 2022

Office of Transport and Traffic Policy and Planning