



11th Regional EST Forum in Asia

# COUNTRY REPORT: MALAYSIA

2-5 October 2018,  
ULAANBAATAR, MONGOLIA



# PRESENTATION OUTLINE



**Stock take**



**Critical Challenges**



**Plans & Major Initiatives**



**Achievement.**

# THE STOCK TAKE

## LENGTH OF ROAD (KM)



	1995	2017
	61,294	237,022

in total 28.7m registered vehicles (2017) /  
Total population 32 m

## NUMBER OF PORTS

	1995	2018*
Federal ports	8	10
State ports	5	10



## LENGTH OF RAIL (KM)



	1995	2018*
Rail	699	1,833
Double track	145	767
Urban rail	12	328

## NUMBER OF AIRPORTS

	1995	2018*
Domestic	16	17
International	5	6



\* as of June

**CURRENT****MOVING FORWARD****MODAL SHARE**

**20.8% (2013)**  
Greater KL/  
Klang Valley



**40% (2020)**  
Greater KL/  
Klang Valley

**40% (2030)**  
All Cities

Emission reduction  
**214.9 ktCO<sub>2</sub>eq (2013)**



**20% (2020)**  
Other Cities

Targeted Emission reduction  
**977.5 ktCO<sub>2</sub>eq\* (2020)**

\*Greater KL/Klang Valley only

**PRIVATE VEHICLES**

**32.6% (2015)**



% of total Industry volume to  
be Energy Efficient Vehicles  
(EEV)  
*(fuel efficient vehicles, hybrid and EV)*

**85% (2020)**

**100% (2030)**

Emission reduction  
**41.0 ktCO<sub>2</sub>eq (2013)**  
*(hybrid only)*

**Carbon emission standards in  
the definition of EEV by 2020**

Targeted Emission reduction  
**199.7 ktCO<sub>2</sub>eq (2020)**  
*(hybrid only)*

**BIODIESEL**

**230,000  
tonnes**



Petroleum diesel  
displaced by palm oil  
based biodiesels



**576,000  
tonnes**

Emission reduction  
**719.7 ktCO<sub>2</sub>eq  
(2013)**

Targeted Emission reduction  
**1802.5 ktCO<sub>2</sub>eq  
(2020)**



# CRITICAL CHALLENGES

## Policy implementation

- No dedicated lead agency
- No ELV Policy
- Insufficient resources
- Pricing (fare)

## Infrastructure

- Insufficient Infra
- Absence of Central technical lab
- Less focus on 2<sup>nd</sup> & 3<sup>rd</sup> tier cities

## Mindset

- EEV
- Car share/ car pool
- Public transportation facilities/services



# PLANS & MAJOR INITIATIVES



The cover of the Eleventh Malaysia Plan (2016-2020) features the national coat of arms at the top right. The title "ELEVENTH MALAYSIA PLAN" is prominently displayed in large, bold, black letters, with "2016-2020" and the tagline "ANCHORING GROWTH ON PEOPLE" below it. At the bottom, there are six colorful icons representing different sectors: a person with a gear, a person with a lightbulb, a person with a heart, a person with a leaf, a person with a gear, and a person with a gear.

**ELEVENTH  
MALAYSIA  
PLAN**  
2016-2020  
ANCHORING GROWTH ON PEOPLE

11<sup>th</sup> Malaysia  
Plan



The cover of the National Transport Policy (2018-2030) features a large orange hexagon in the center. Inside the hexagon is the national coat of arms and the text "National Transport Policy 2018- 2030".

**National  
Transport  
Policy**  
2018- 2030

National Transport Policy



The cover of the Green Technology Master Plan Malaysia (2017-2030) features the national coat of arms at the top right. The title "GREEN TECHNOLOGY MASTER PLAN MALAYSIA" is prominently displayed in large, bold, black letters, with "2017 - 2030" below it. Below the title are several circular icons representing different green technology sectors: solar, wind, water, and recycling. To the right, there is a 3D graphic of stacked green and blue blocks.

**GREEN  
TECHNOLOGY  
MASTER  
PLAN  
MALAYSIA**  
2017 - 2030

GTMP



The cover of the National Land Public Transport Master Plan features the national coat of arms at the top right. The title "NATIONAL LAND PUBLIC TRANSPORT MASTER PLAN" is prominently displayed in large, bold, black letters, with "Making together for a better tomorrow" below it. Below the title are three circular icons representing different modes of transport: a car, a bus, and a train. The background shows a cityscape with the Petronas Towers and a large public transport hub.

**NATIONAL  
LAND PUBLIC TRANSPORT  
MASTER PLAN**  
Making together for a better tomorrow

SECURITY • SAFETY • ECONOMIC GROWTH

NATIONAL LAND PUBLIC TRANSPORT MASTER PLAN

Land Public  
Transport  
Master Plan

# ACHIEVEMENT

## GOVERNANCE

- Integration of SPAD to MOT

## TOD

Cempaka, Pandan Indah, Pandan Jaya, Titiwangsa, Bandar Baru Sentul, Jelatek, Kinrara and Bandar Puteri.



## Public Transportation

- Increased ridership from 1.2m (2016) to 1.3m (2017)
- E hailing & taxi policy
- Free bus services by local municipalities

Regulate e-hailing services as part of public service vehicle



## Efficient Mobility

- EEV
- Cleaner Fuel
- Implementation of non motorized initiatives
- Universal Design



EEV penetration increased for its fourth straight year, reaching 52% i.e. 299,850 units of vehicles sold in Malaysia in 2017.



# Powering Electric Mobility

PUBLIC EV CHARGERS

250

Stations

PUBLIC EV CHARGING

186

Location available in Malaysia

EV CHARGING SESSIONS

48,595

Sessions

ELECTRICITY CHARGED

263

MWh

ESTIMATED ELECTRIC RANGE

1,753,080

Kilometres

ESTIMATED CO2 EMISSIONS AVOIDED

334,838

Kilograms

SEMI-PUBLIC EV CHARGERS

157

Units

INSTALLED WITH EV CHARGERS

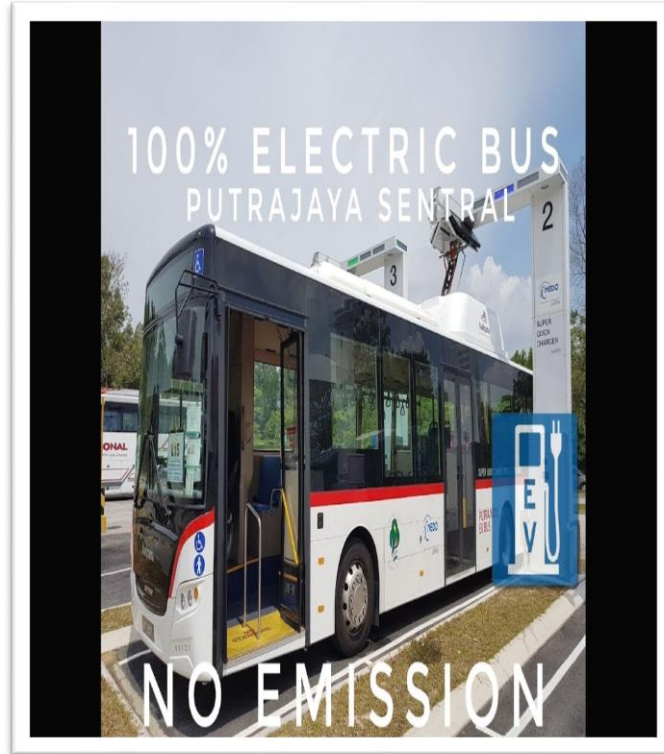
53

Condominiums





- **Aim to be Green City by 2025**



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## **Putra NEDO bus services**

- **10 unit – fast charging**
  - **165 unit NGV**
  - **Fully electrified by 2021**
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**TERIMA KASIH@THANK YOU**

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