



MINISTRY OF
INVESTMENT, TRADE AND INDUSTRY

THE EV POLICY AND MEASURES

22 November 2023

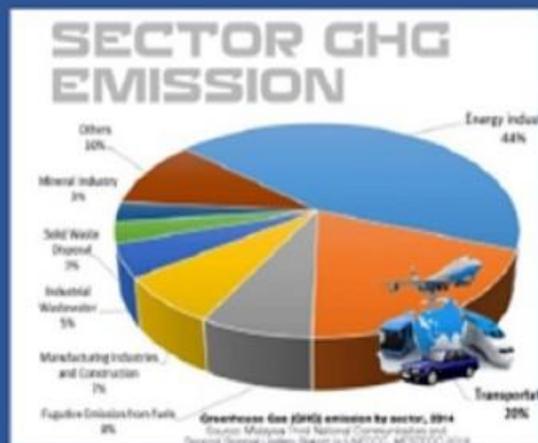
TRANSPORTATION SCENARIO IN MALAYSIA



Malaysia ranked 3rd among ASEAN countries for total CO₂ emissions per capita (2018)

Transport sector represented 28.8% of total fossil fuel combustion, **above global average** of 24.5%.

Source: International Energy Agency CO₂ Emissions from Fuel Combustion (2019)



Transport sector is 2nd biggest driver of CO₂ emissions (21%) after the energy industries.

Source: Malaysia Third National Communication and Second Biennial Update Report to UNFCCC (2018)



Road transport is the largest CO₂ emitter among all transport subsectors.

Car accounted for the highest emission (58%), followed by goods vehicle (23%) and motorcycle (12%).

Source: Malaysia Third National Communication and Second Biennial Update Report to UNFCCC (2018)

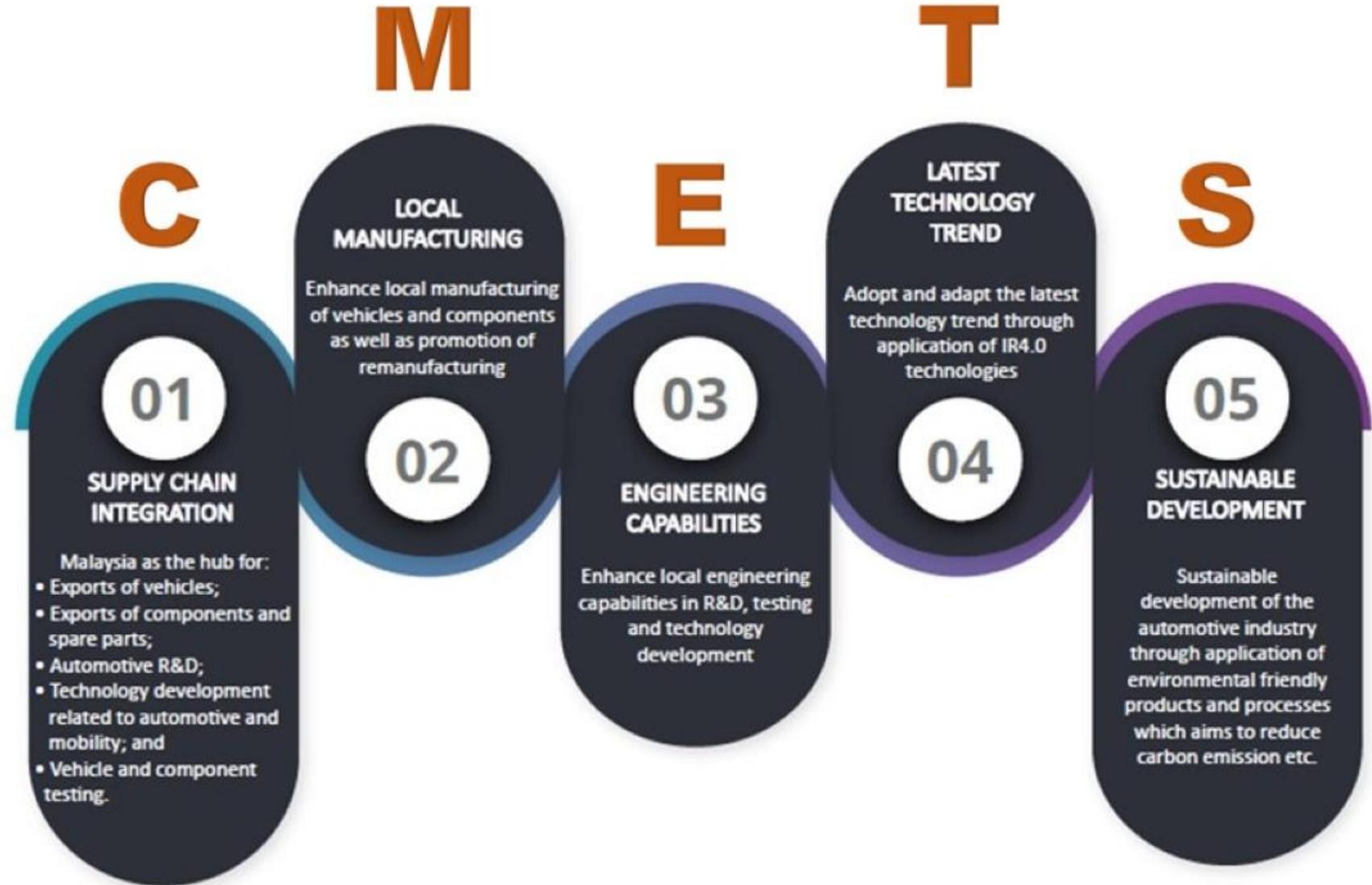


Transportation contributes to **36.4% of the final energy consumption** in 2018, which is the largest energy user in Malaysia.

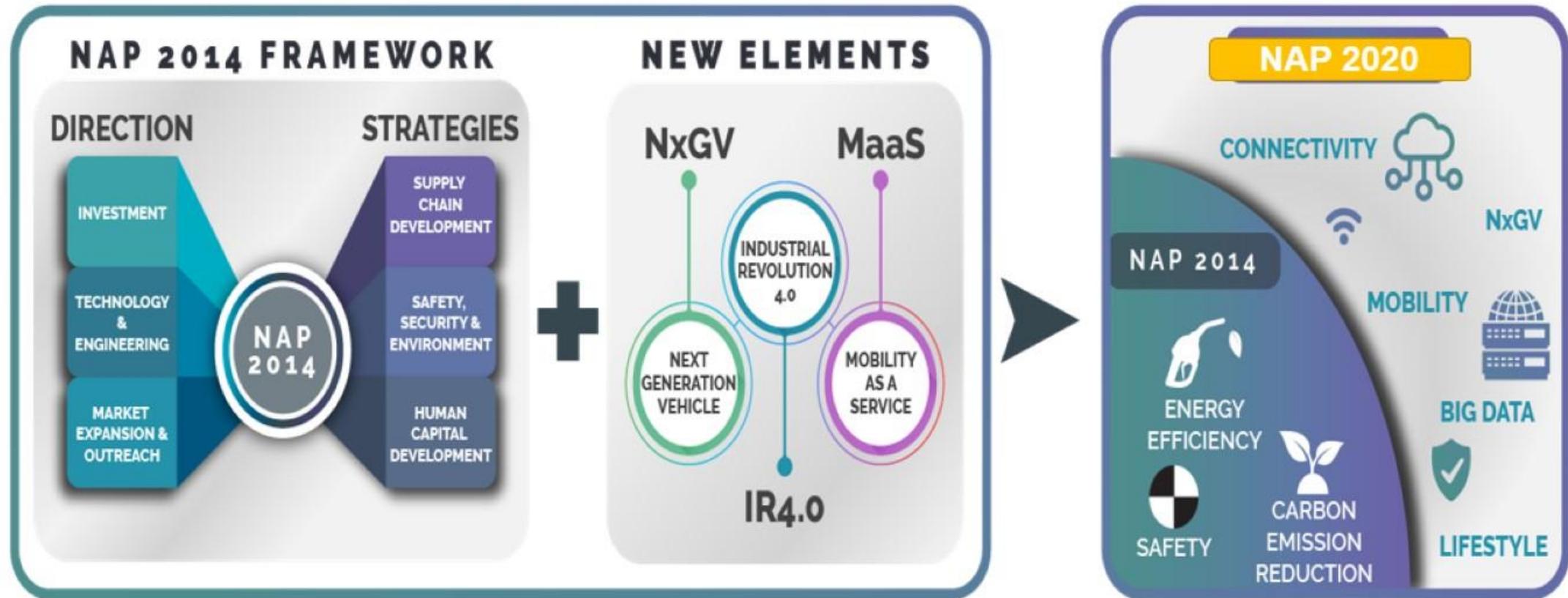
Source: Malaysia Energy Statistics Handbook 2020

The Low Carbon Mobility Blueprint (LCMB) 2021 - 2030 document led by the Ministry of Environment and Water (KASA) outlines strategies and actions required to mitigate energy consumption and greenhouse gas (GHG) emissions

BACKGROUND OF NATIONAL AUTOMOTIVE POLICY (NAP)



FRAMEWORK OF NAP2020



The main objective of the National Automotive Policy (NAP) 2020 is to develop Malaysia as a regional automotive hub for Energy Efficient Vehicles (EEVs) including electric vehicles (EVs) with a focus on the development of NxGV, MaaS and IR4.0

NATIONAL TARGETS

The national target for EVs in Malaysia are as follow:



Commitment in the United Nations Framework Convention on Climate Change (UNFCCC) to **reduce carbon emissions by 45% by 2030** (for all sectors)



Malaysia to achieve **net zero carbon emissions by 2050** as outlined under the 12th Malaysia Plan



xEV sales target:
(PV+CV, motorcycle)

- 2030 - 20% TIV
- 2040 - 50% TIV
- 2050 - 80% TIV

Bus - 20% of active permit by 2030



10,000 units of charging facility by 2025 (9,000 AC and 1,000 DC)

CURRENT ACHIEVEMENTS



**20,464 unit
(PV + CV)**
3.51% of TIV
As of 21 Sept 2023



**556 unit
(Motorcycle)**
0.12% of TIV
As of 21 Sept 2023



**141 unit
(Bus)**
1.18% of active permit*
Up to Sept 2023



**1,430 unit
EV Charging**
303 DC + 1,127 AC
Up to 21 Oct 2023

xEV: EV and hybrid (including PHEV)

* Based on cumulative registered buses from 2011 until Sept 2023 = 11,929

GOVERNANCE STRUCTURE OF NEVSC AND NEVTF

National EV Steering Committee (NEVSC)



Members (Minister or Senior Government Official nominated by the Minister)

- | | |
|---------|----------|
| 1. MITI | 5. KPKT |
| 2. MOF | 6. KKR |
| 3. MOT | 7. MOSTI |
| 4. KE | 8. NRECC |

National EV Task Force (NEVTF)



Member (Nominated Officer)

1. MITI - MIDA, MARii, MPC, JSM, SIRIM
2. MOF - LAKSANA
3. MOT - JPJ
4. KPKT - PLANMalaysia
5. KKR - JKR, LLM
6. MOSTI - NanoMalaysia, MIGHT
7. NRECC - MGTC, DOE, ST, TNB
8. KPND



**National EV Technical Committee (NEVTC) with all industry players.

*Composition may change depending on focus of initiatives and challenges

CURRENT POLICY

1. Franchise AP (Importation of brand new CBU cars unit)



2. Global BEV Leader AP (Starting 1 January 2023)

To attract Global BEV leaders to have their presence and investments in Malaysia.

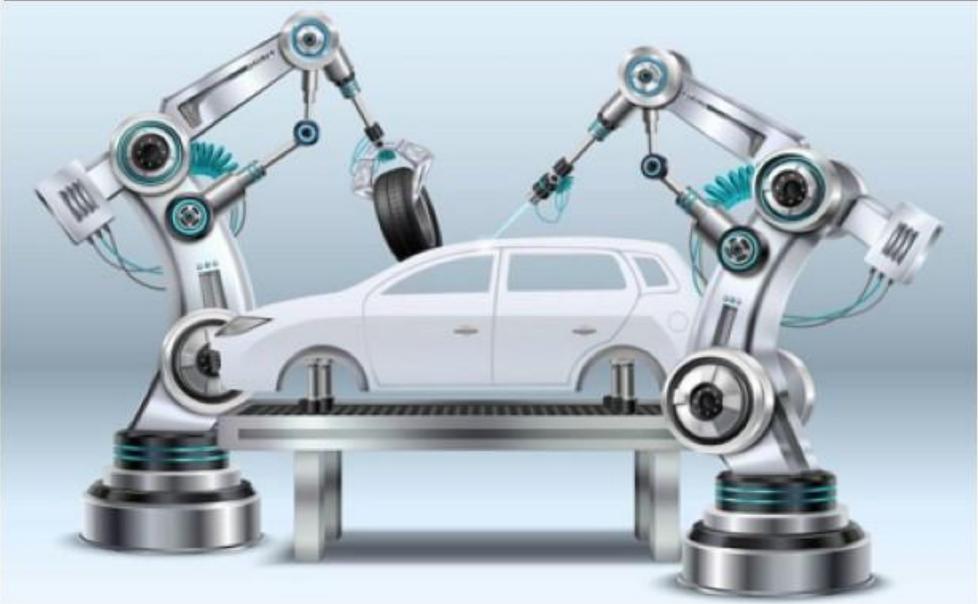
3. Market Research and Pre-Assembly (MRA) AP



CURRENT POLICY

4. Tax Exemption/Allowance

CBU: 0% Import & excise duty till 2025;
CKD: 0% Import & excise duty, sales tax till 2027.



GITA

Green Investment
Tax Allowance

GITE

Green Income Tax
Exemption

5. Tax Incentives (1 January 2023 until 31 December 2032)



Electric Vehicle
Supply Equipment
Manufacturers

6. Tax Reduction until 2027



Companies that rent EVs with the maximum amount limited to no more than RM300,000

CURRENT POLICY

7. Free Road Tax (until 31 December 2025)



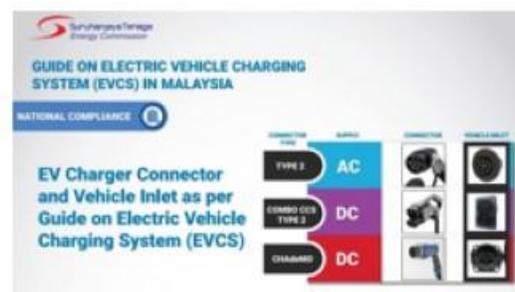
8. Charging Facilities



9. Standards Development

- Passenger Car :
 - United Nations Regulations No. 100
- Electric Motorcycle :
 - United Nations Regulations No. 136
 - MS 2413 : Electric motorcycle (>50 km/h)
 - MS 2688 : Electric moped (25-50 km/h)
- EV Battery & Chargers :
 - MS IEC 62196 : EV Connectors & Inlet
 - MS IEC 61851 : EV Conductive Charging System
 - MS IEC 62660 : Li-Ion Testing for EV
 - SAE 1772 : EU-Type 2

10. EVCS Guide



CURRENT POLICY

11. EVCS Installation Procedure



DRAF GARIS PANDUAN PERANCANGAN TEMPAT LETAK KENDERAAN ELEKTRIK (TLK EV)



12. Talent/Skill Development

Program Outline

- Hybrid & EV Programming
- Battery Management System
- Charging System & Safety Tools
- Hybrid & EV System Component

Program Description

An awareness program to disseminate the Hybrid and Electric Vehicle (EV) technology knowledge that in line with National Roadmap for Automotive & Mobility Technology (NRAMT) and National Roadmap for Automotive Aftermarket (NRAA) under National Automotive Policy 2020.

Level Progress:

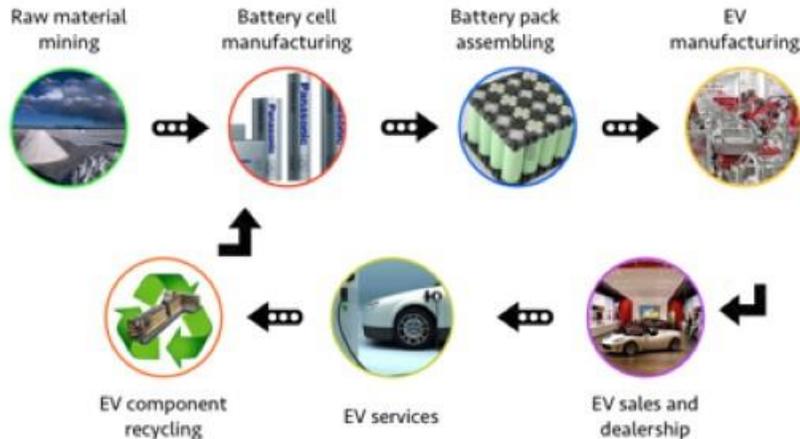
- BASIC: [Progress bar]
- INTERMEDIATE: [Progress bar]
- ADVANCED: [Progress bar]

Public Interest related Automotive

Independent Workshop

Automotive Industry

13. Supply Chain Development



14. Incentives Scheme for E2W

**Rebate
RM2,400**





NEW INDUSTRIAL MASTER PLAN 2030 (NMIP)

NEW INDUSTRIAL MASTER PLAN 2030

MISSION 1 - Advance economic complexity

MISSION 2 - Tech up for a digitally vibrant nation

MISSION 3 - Push for Net Zero

MISSION 4 - Safeguard economic security and inclusivity

Mission-based Project:

- Create global IC design champions in EV, RE, and AI
- Launch locally manufactured EV

Enabler 1

Mobilise financing ecosystem

Enabler 2

Foster talent development and attraction

Enabler 3

Establish best-in-class investor journey for ease of doing business

Enabler 4

Introduce whole-of-nation governance framework



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THANK YOU

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MITI Agencies:



Menara MITI, No. 7, Jalan Sultan Haji Ahmad Shah, 50480 Kuala Lumpur, Malaysia.

Tel : 603-8000 8000 | Fax : 03-6206 4693