



Department of Alternative
Energy Development and Efficiency
MINISTRY OF ENERGY

Thailand Country Report 2025

**37th Energy Conservation Workshop under
ASEAN-Japan Energy Efficiency Partnership
[ECAP 37]**

Mr. Borwornpong Sunipasa

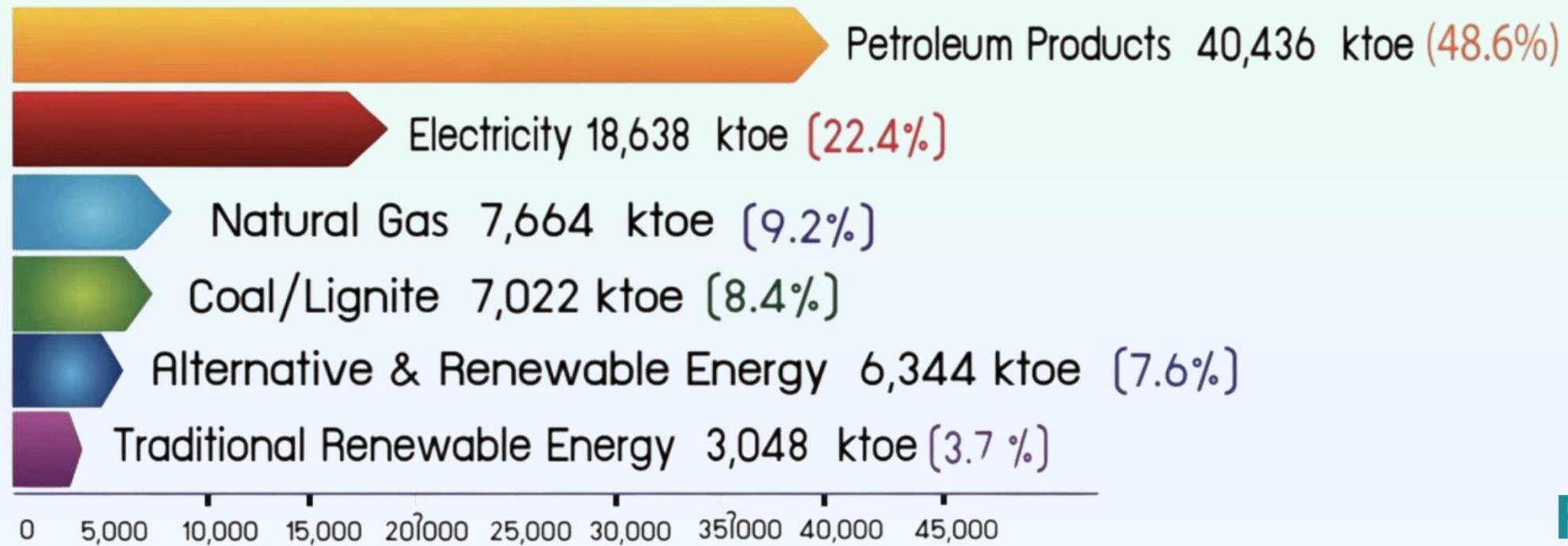
Chief of Energy Efficiency
Promotion in Transport Group



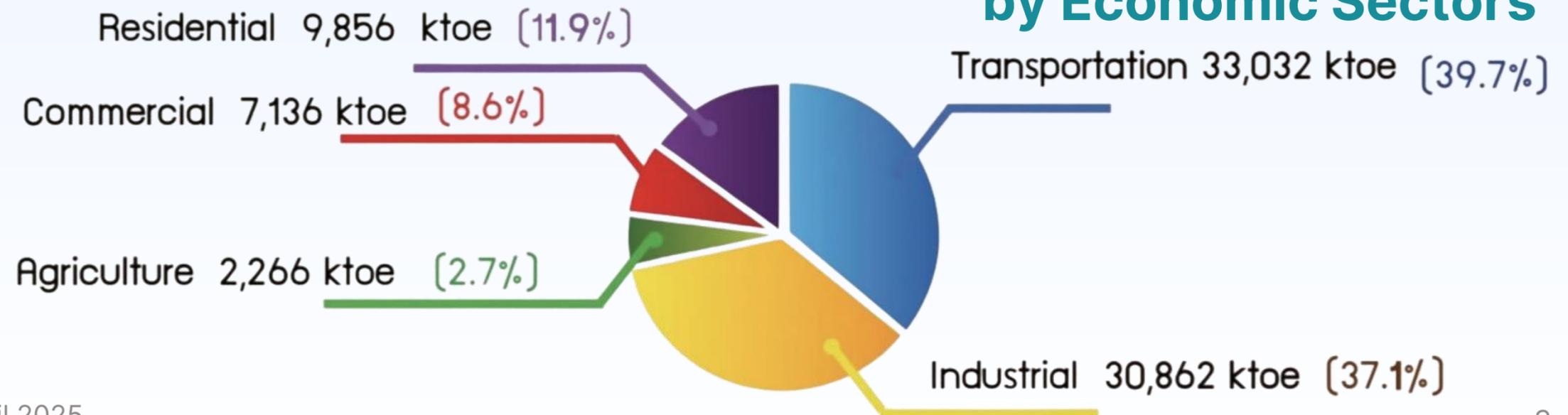


Thailand Energy Situation

Final Energy Consumption 2023 by Fuels



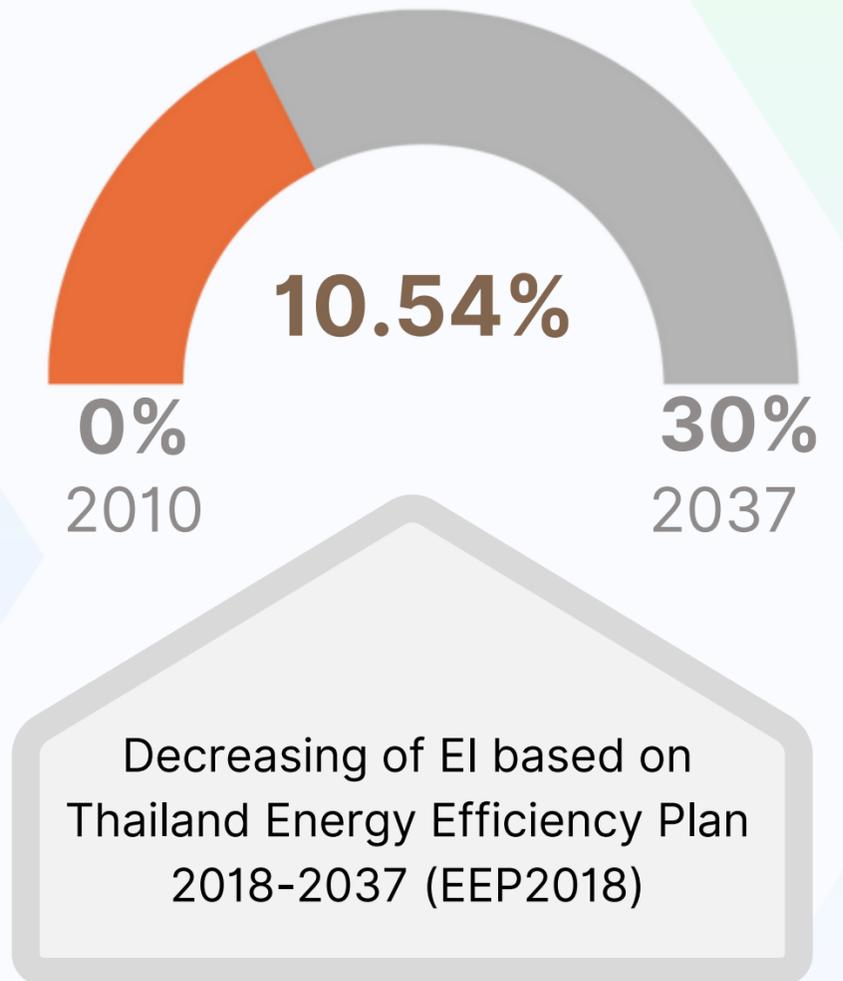
Final Energy Consumption 2023 by Economic Sectors





Energy Efficiency in Thailand

Energy Intensity (EI) in Thailand 2023



Revised Energy Efficiency Plan (In Progress)

Target EI Reduction (base year 2010)

EEP2018

30% By 2037



New EEP

36% By 2037 and **40%** By 2050

Source: Thailand Energy Efficiency Situation 2023, DEDE, April 2025

New Energy Efficiency Plan

Energy efficiency measures target by economic sectors: 2024 -2037

(Should not be referenced: currently under consideration and subject to changes)

Industrial

Compulsory: 5,131 ktoe
Voluntary: 7,301 ktoe
Total: 12,432 ktoe (35 %)

Transportation

Compulsory: 1,650 ktoe
Voluntary: 15,389 ktoe
Total: 17,039 ktoe (48 %)

Commercial

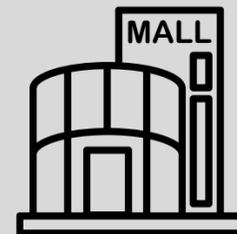
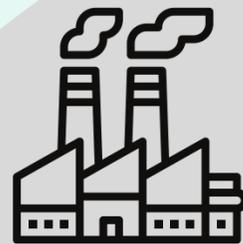
Compulsory: 1,501 ktoe
Voluntary: 2,041 ktoe
Total: 3,542 ktoe (10 %)

Residential

Compulsory: 117 ktoe
Voluntary: 1,657 ktoe
Total: 1,774 ktoe (5 %)

Agricultural

Compulsory: 50 ktoe
Voluntary: 660 ktoe
Total: 710 ktoe (2 %)



Grand total
35,497 ktoe

New Energy Efficiency Plan

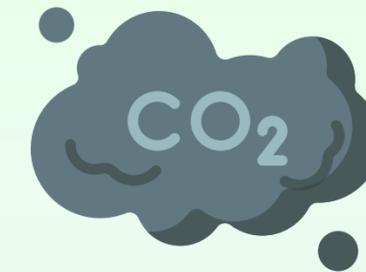
Key measures – Transportation Sector

(Should not be referenced: currently under consideration and subject to changes)

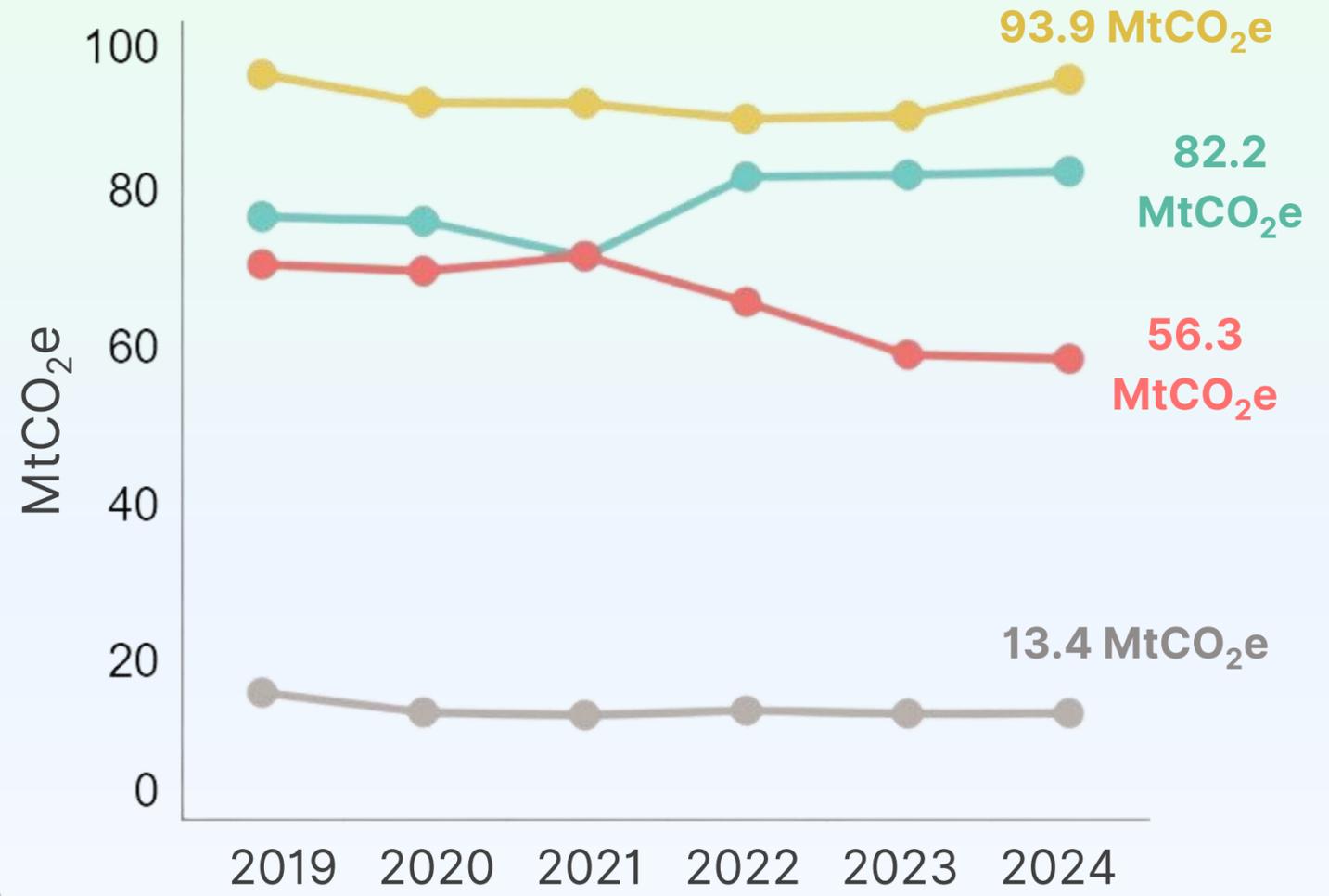
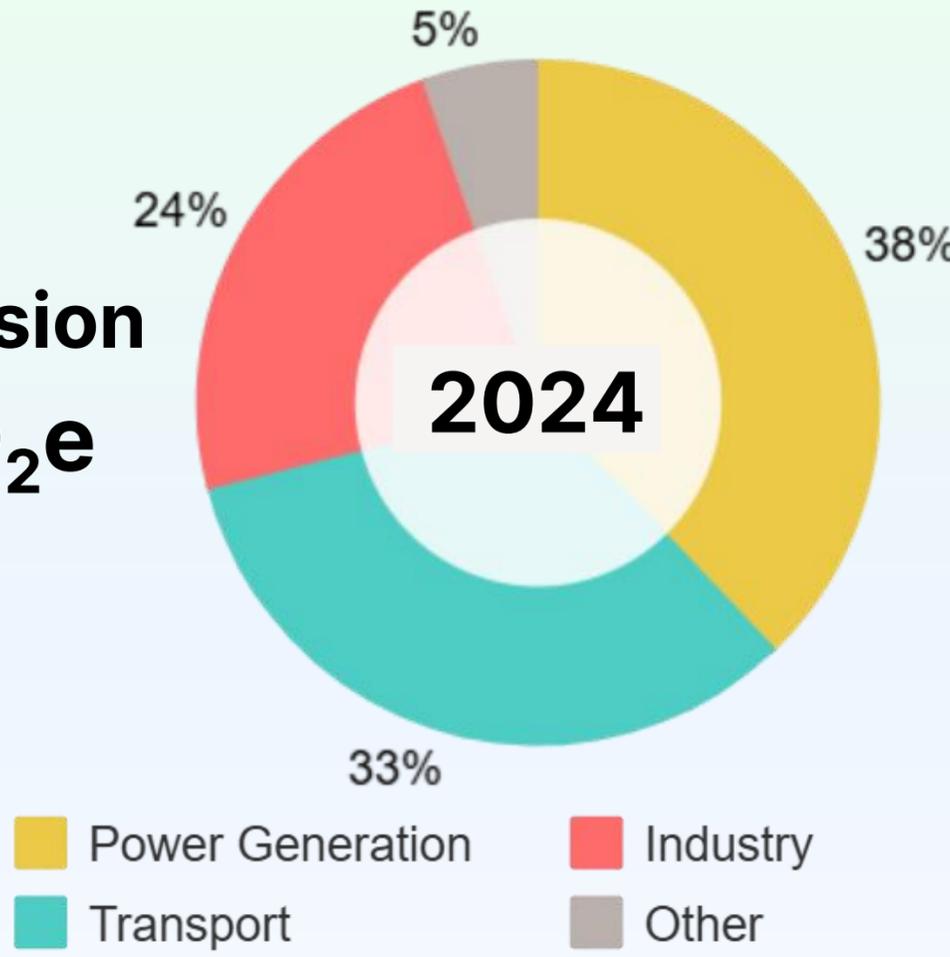
	Compulsory	Voluntary	Complementary
 <p>17,039 ktoe</p>	<p>Energy efficiency measures for land transport</p> <ul style="list-style-type: none"> Excise tax (Eco-Sticker) (1,499 ktoe) Energy efficiency standards and labelling for tires (151 ktoe) 	<p>Energy efficiency measures for land transport</p> <ul style="list-style-type: none"> Subsidy (up to 30%) (20 Ktoe) Financial supports for energy service companies (28 Ktoe) <p>Energy efficiency measures for water transport</p> <ul style="list-style-type: none"> Freight and public transport (Mode shifting, etc.) (33 Ktoe) <p>Energy efficiency measures for rail transport</p> <ul style="list-style-type: none"> Double-railed transport, Electric mass transport, sub-urban transport, and high-speed train (6,246 ktoe) <p>Energy efficiency measures for air transport</p> <ul style="list-style-type: none"> Management and equipment change for airports (10 ktoe) <p>Promotion of electric vehicles (EV) (9,052 ktoe)</p>	<ul style="list-style-type: none"> Human Resource Development on ECO-Drive Public awareness Research and Development of technologies and innovations



Thailand GHG Emissions



**Total CO₂ Emission
245.7 MtCO₂e**



Source: EEPO, March 2025

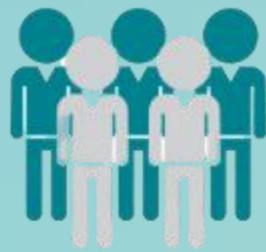
*Others includes residential, agricultural, commercial, etc.

CO₂ emissions per Energy Consumption



2.01
1000 tons/ktoe

CO₂ emissions per Capita



3.76
tons/person

CO₂ emissions per GDP



22.17
tons/Mn THB

CO₂ emissions per Electricity Generation



0.399
kg/kWh

CO₂ emissions per Electricity Consumption



0.438
kg/kWh

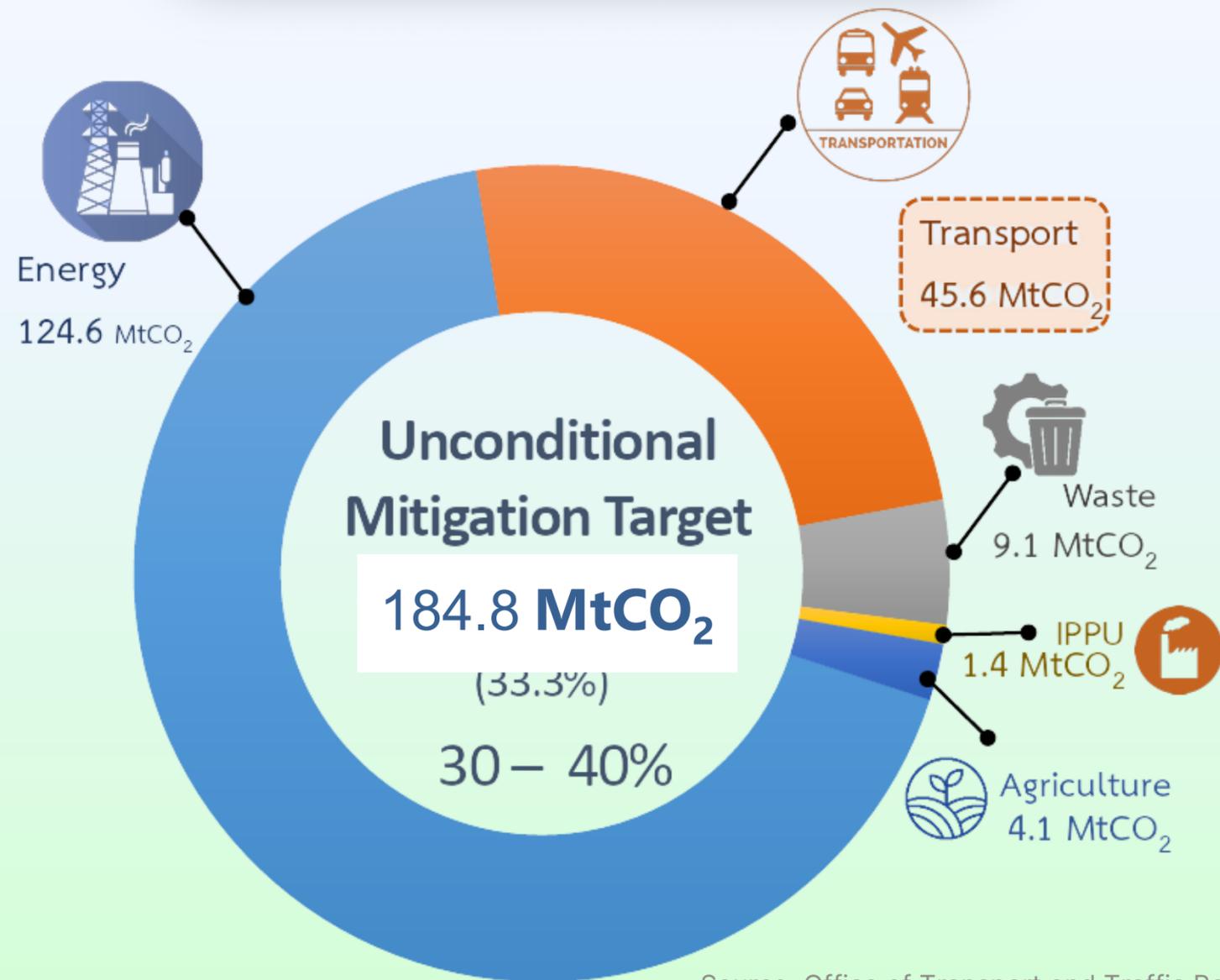


Thailand GHG Reduction Target

Net Zero Emission Target by 2065  by 2050 NEW

Thailand's CO2 Reduction Target by 2030

NDC in Transport



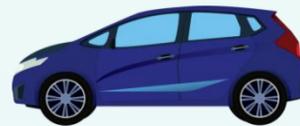
- Supportive Mitigation**
- Transport Infrastructure and Support
 - Future Energy for Transport

Thailand EV Overview

Progress toward Thailand's 30@30 POLICY for BEV

As of 2024, the cumulative number of registered Battery Electric Vehicles (BEVs) reached 227,490 units.

Passenger Cars and Pickups



160,135 units out of 440,000 target



Motorcycles



62,631 units out of 650,000 target



Buses and Trucks



3,687 units out of 33,000 target



Three-Wheelers



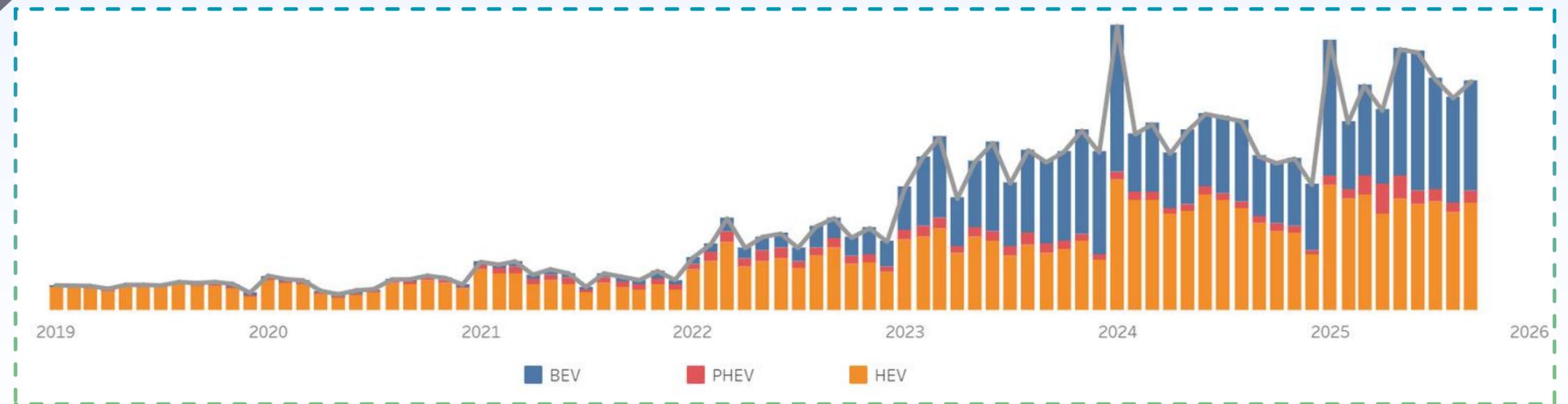
1,017 units out of 2,200 target



*Other EVs 21 units



Trend of New BEV Registrations in Thailand



Obligatory Reporting Systems

The implementation of **the Energy Management System** under the Energy Conservation Promotion Act B.E. 2535 (1992) (Additional Amendment B.E. 2550)

1 Implement energy conservation measures and prepare the **Energy Management Report** as required by law.



**Designated
Factories / Buildings**

2 Assign a certified **Energy Auditor** to verify and approve the report.



Auditor

The auditor reviews and prepares the **Energy Management Audit Report** and the **Audit Summary and Approval Report**.

4 Submit the audit report and supporting documents

- Documents involved:
- Energy Management Report
 - Energy Management Audit Report
 - Audit Summary and Approval Report

Electronic Form (eForm)

eservice.dede.go.th



e-Service @eservice_dede

or the **Original Hard Copy**



Submission deadline:
by March of each year

DEDE

Department of Alternative Energy Development and Efficiency
MINISTRY OF ENERGY

NOTES

No mandatory energy reporting requirement for the transport sector!



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Thank You So Much For Your Attention

Contact Us for More Information

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