



Energy Policy and Regulation with Public Private Partnership

Presented by

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Overview of the Thai Energy Situation in 2023 (Jan - May)

Primary Energy Supply

Production

668



7.2%

Billion barrels per day eq.

Net Import

1,634



4.4%

Billion barrels per day eq.

Consumption

2,045



1.9%

Billion barrels per day eq.

Final Energy Consumption

1,500



0.4%

Billion barrels per day eq.

Classified by Types



Petroleum Products

56%



Power

22.6%



NG

10.7%



Coal

10.7%



Thailand's goal towards Carbon Neutrality

COP26



Statement by PM of Thailand at COP26 in Glasgow, Scotland

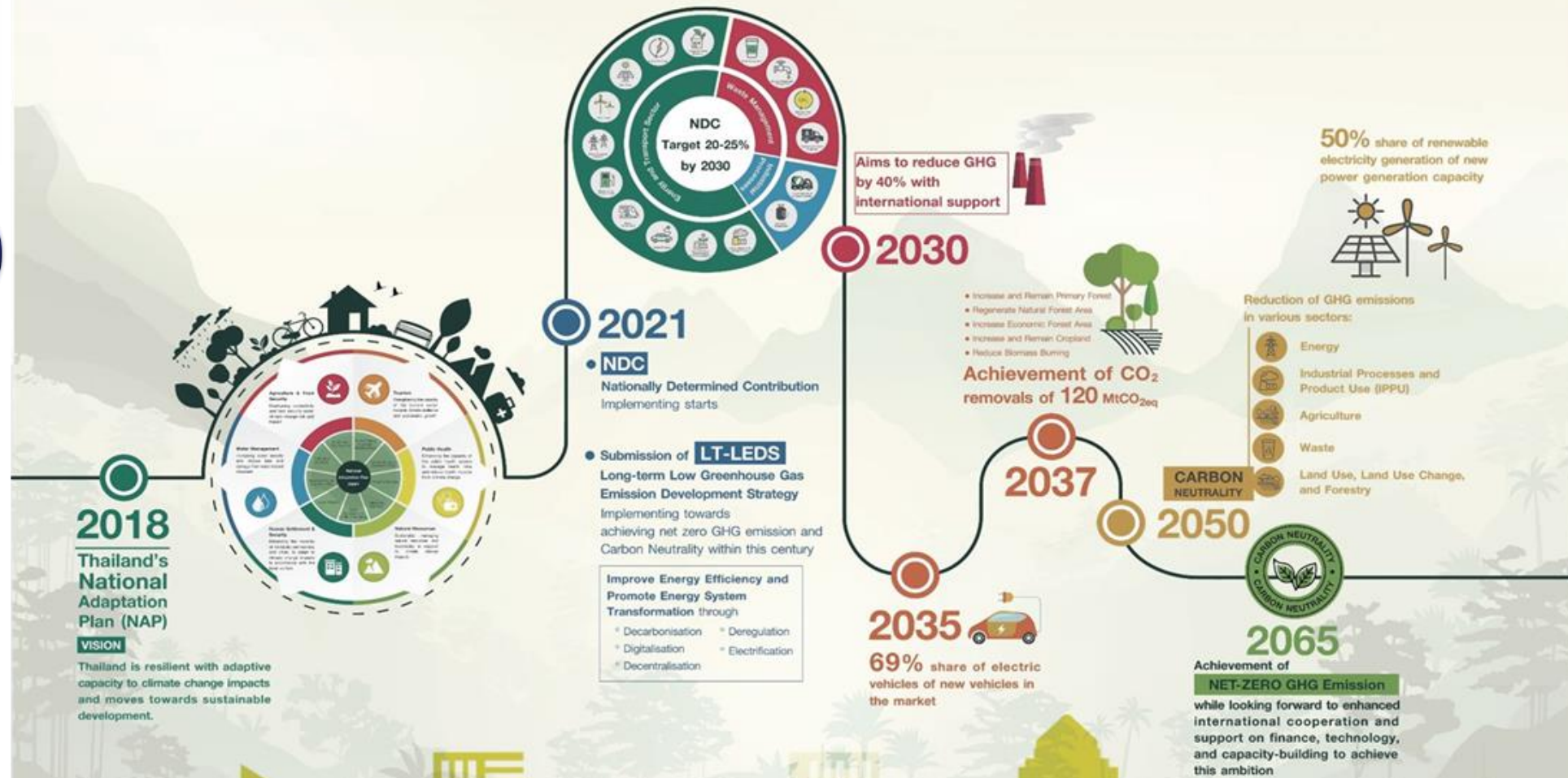


2030 : NDC 40%

2050 : Carbon Neutrality

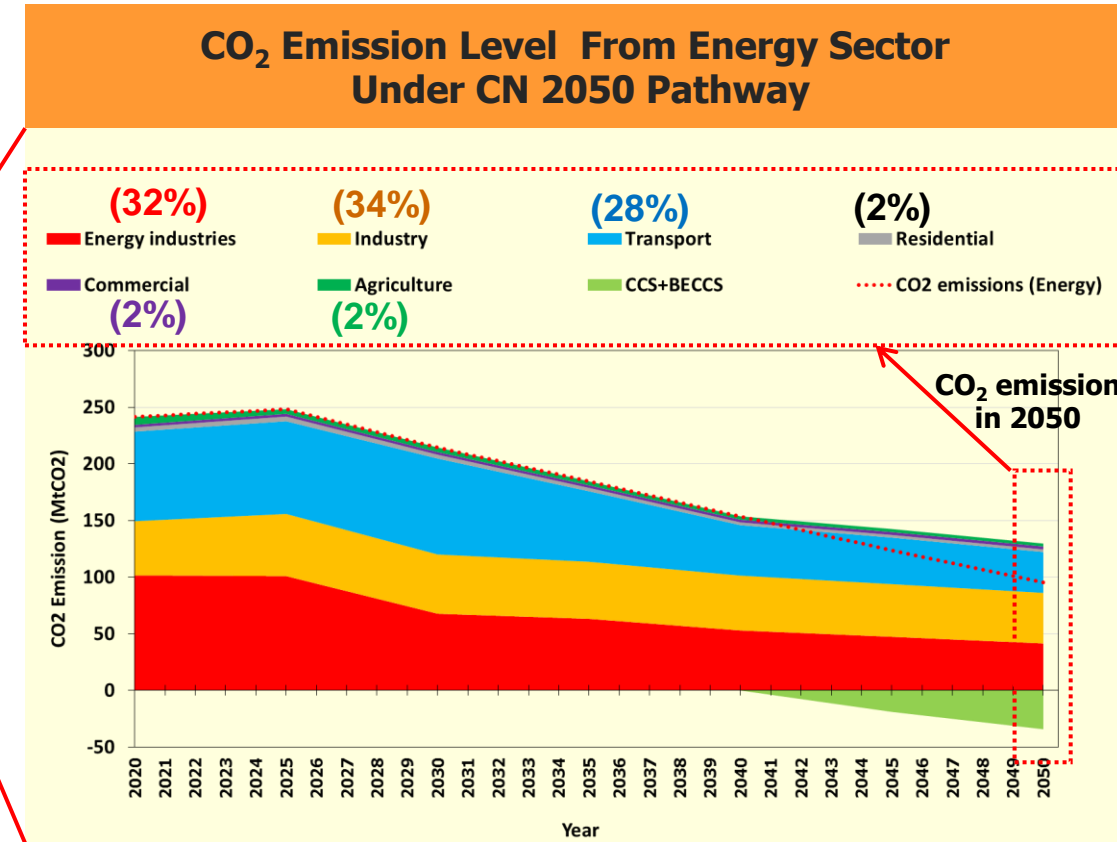
2065 : Net Zero Emission

Thailand's Long-term Greenhouse Gas Emission Development Strategy



CO₂ emission scenarios to achieve Carbon Neutrality 2050*

Energy is an important sector to achieve Thailand's CN



Data from the NDC public hearing (revised 2022) Office of Natural Resources and Environmental Policy and Planning (ONEP)

National Energy Plan

On 4th August 2021 : NEPC considered and approved national energy plan framework. The goal is to support Thailand *moving towards clean energy and reduce carbon emissions to net zero.*



แผนพลังงานชาติ
National Energy Plan

EPPO is preparing the details of the **National Energy Plan**, in line with Carbon Neutrality.

Policy Direction to National Energy Plan

1



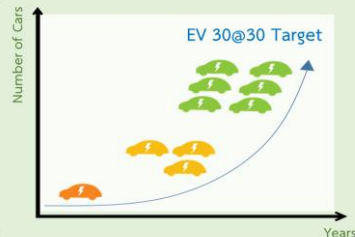
RE >50% w
ESS



2



EV 30@30



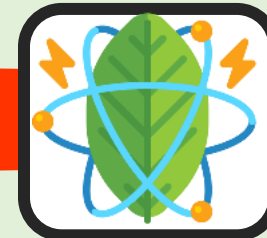
3



EE >30%



4

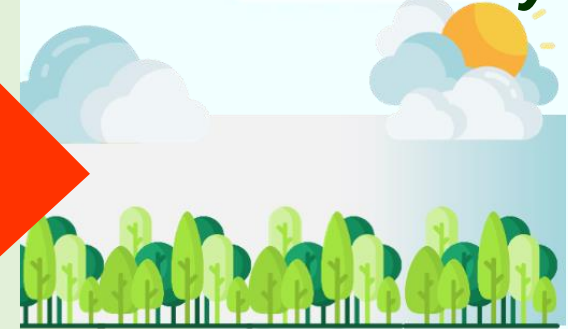


4D1E



DIGITALIZATION
DECARBONIZATION
ELECTRIFICATION
DECENTRALIZATION
DE-REGULATION

Carbon Neutrality



in the year 2050



Current Achievement towards Energy Transition

Electricity Generation from RE and Energy Efficiency



Domestic RE @2022 : **13.2 %**
EI @2022 : **7.72**
(base year 2010)

Cumulative of electric vehicles as of May 2023



BEV: **65,337** Car
PHEV: **47,543** Car

Source: Department of Land Transport

Number of public charging station as of May 2023



1,482 Charging locations
4,628 Chargers

Source: EVAT

Policy Achievement for Energy Transition



Utility Green Tariff (UGT)

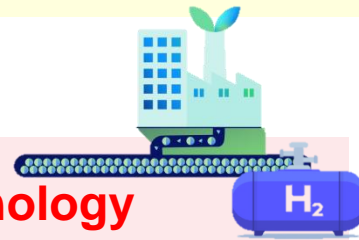
On November 2022, NEPC approved UTG retail electricity tariff structure guideline including,

- UTG with Unspecified source (UTG1) = Normal electricity bill (including Ft) + Premium
- UTG with Specified source (UTG2) = Fixed Rate (Wholesale) + Variable Rate (Wholesale)



Natural gas Liberalization

- On February 2023, NEPC approved the guidelines for promoting competition in the natural gas industry in Phase 2, and also ready to accelerate the push for new shippers.
- A license for LNG import have been given to 8 shipper to accelerated for market competition.



Decarbonized Technology

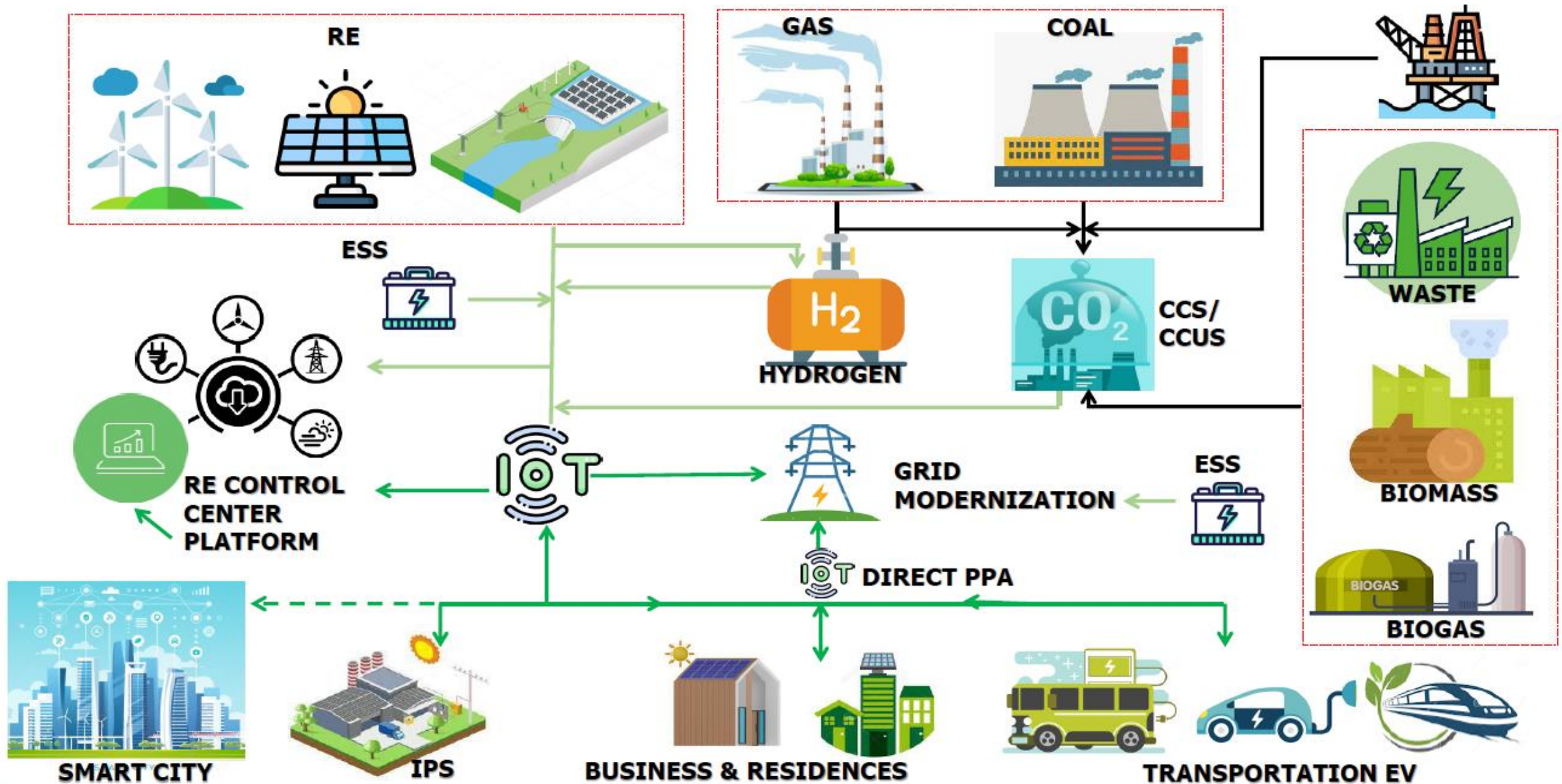
Hydrogen

MoEN has been studying the hydrogen production and utilization pathway in order to develop a master plan to promote H₂ in Thailand

CCS/CCUS

MoEN have been studying the CO₂ capture and storage potential with a plan to develop CCS pilot projects in Thailand.

Future Energy of Thailand





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“National Energy Plan...An Important Step in the Energy Transition”

Thank you for your attention