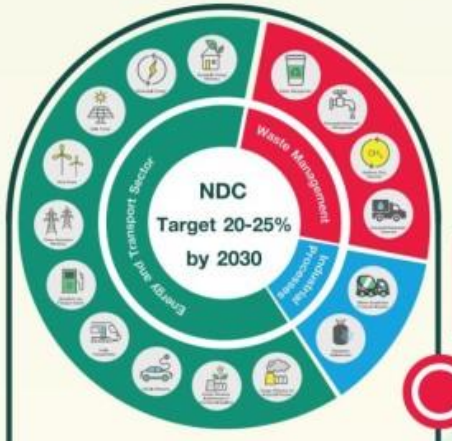
Thailand's Long-term Greenhouse Gas Emission Development Strategy

2030 NDC Target 40%

2050 Carbon Neutrality

2065 Net Zero

A transition towards low emission development



2018

Thailand's National Adaptation Plan (NAP)

VISION

Thailand is resilient with adaptive capacity to climate change impacts and moves towards sustainable development.

2021

- **NDC**
  Nationally Determined Contribution
  Implementing starts
- Submission of **LT-LEDS**
  Long-term Low Greenhouse Gas Emission Development Strategy
  Implementing towards achieving net zero GHG emission and Carbon Neutrality within this century

Improve Energy Efficiency and Promote Energy System Transformation through

- Decarbonisation
- Digitalisation
- Decentralisation
- Deregulation
- Electrification

2030

Aims to reduce GHG by 40% with international support

- Increase and Remain Primary Forest
- Regenerate Natural Forest Area
- Increase Economic Forest Area
- Increase and Remain Cropland
- Reduce Biomass Burning

Achievement of CO_2 removals of 120 $MtCO_{2eq}$

50% share of renewable electricity generation of new power generation capacity

Reduction of GHG emissions in various sectors:

- Energy
- Industrial Processes and Product Use (IPPU)
- Agriculture
- Waste
- Land Use, Land Use Change, and Forestry

2035

69% share of electric vehicles of new vehicles in the market

2037

CARBON NEUTRALITY

2050

2065

Achievement of **NET-ZERO GHG Emission** while looking forward to enhanced international cooperation and support on finance, technology, and capacity-building to achieve this ambition

Driving directions on Energy sector

Towards CARBON NEUTRALITY & NET ZERO

1 Decarbonization Technology

- **EE**
- **Hydrogen**
- **CCS**
- **EV**
- **BESS**

2 Energy Management

Demand

- **Reduce** energy intensity
- Increase Energy Efficiency
- **Support** Clean Technology

Supply

+ **Increase** Electricity generation from RE at least 50%
+ Increase RE in Industry and Transport
+ Utility Green Tariff
+ H_2 blending for power generation
+ Emerging Biofuel: SAF

3 Infrastructure Investment

Smart grid Technology/ Grid Modernization

Increase EV Charging Station

Investment of Battery on Grid scale /PHS

4 Driving Mechanism

- **Policy Incentives**
  (RE mandates, FiT, EE standard)
- **Carbon Pricing**
  (Carbon credit, Transfer of credit)