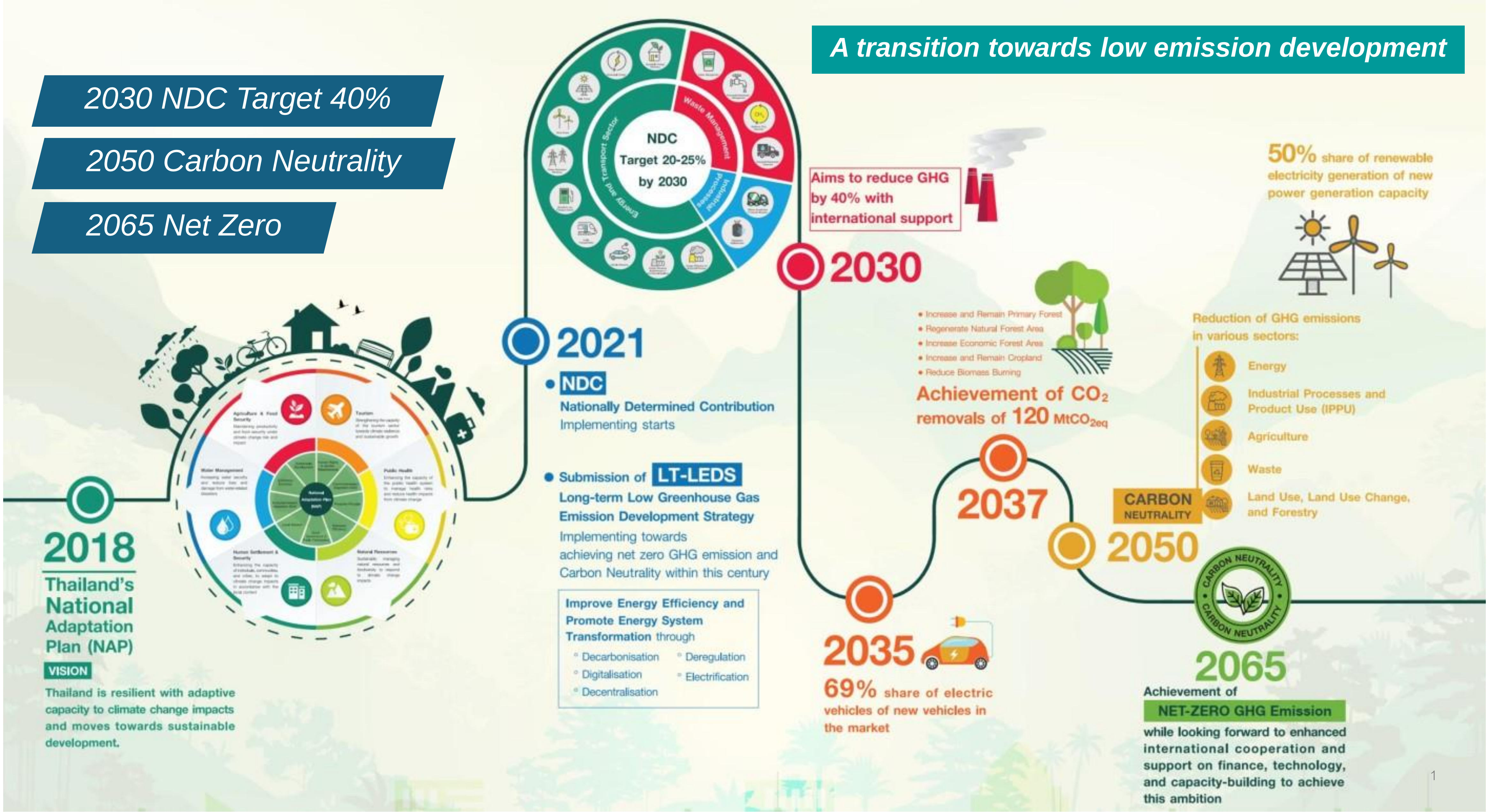
Thailand’s Long-term Greenhouse Gas Emission Development Strategy

A transition towards low emission development

2030 NDC Target 40%

2050 Carbon Neutrality

2065 Net Zero



Thailand's Nationally Determined Contribution (NDC)

2065

Net Zero

GHG Emissions

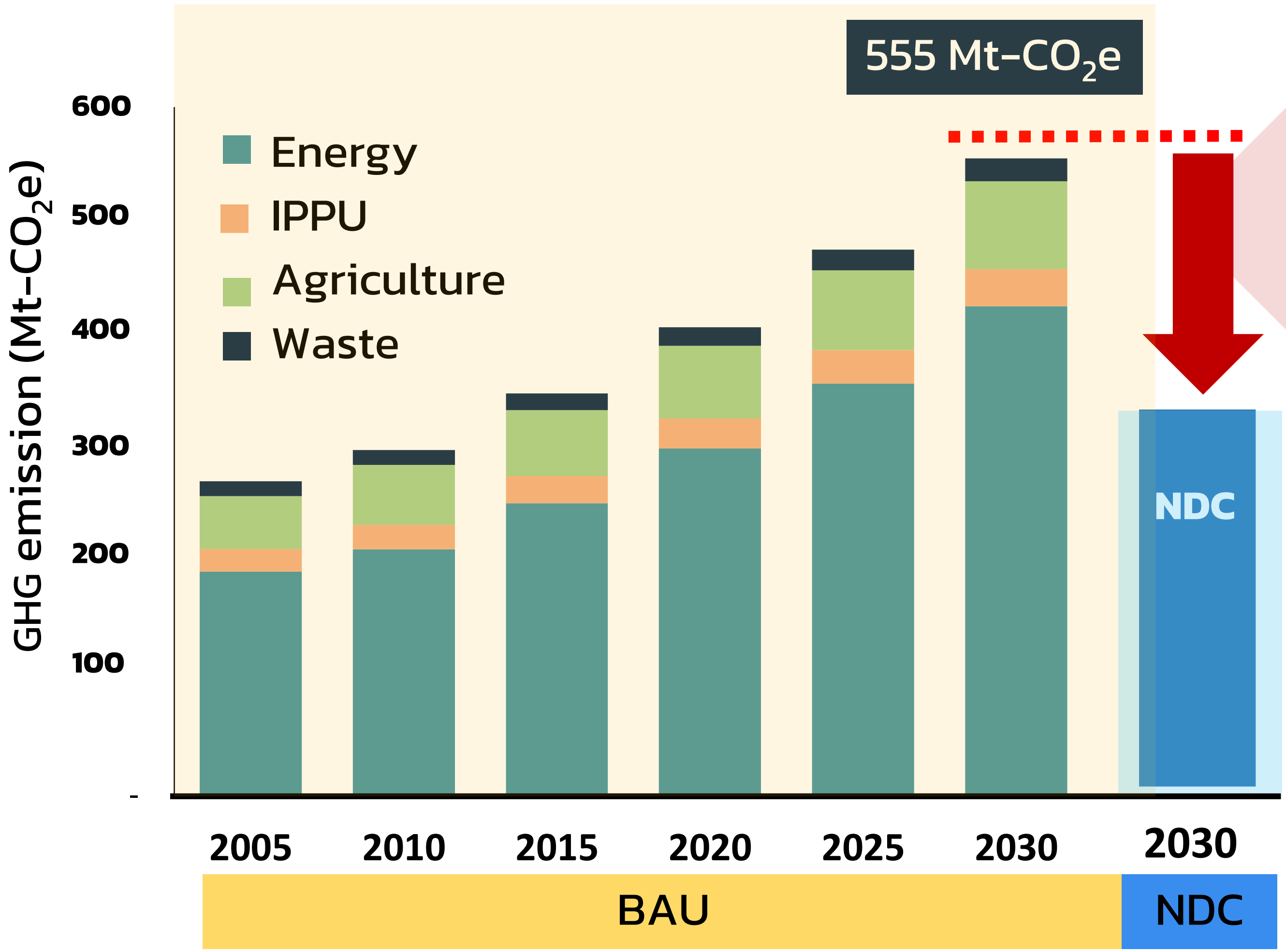
2050

Carbon Neutrality

2030

NDC

Aim to reduce GHG by 40%



At 2030
Reduce GHG emission
222 Mt-CO2e
(Equal to 40*% reduction compared to BAU)

Potential of GHG reduction according to NDC

Energy 216 MtCO_2e	**Agriculture** 2.6 MtCO2e
IPPU 1.1 MtCO_2e	**Waste** 2.6 MtCO_2e

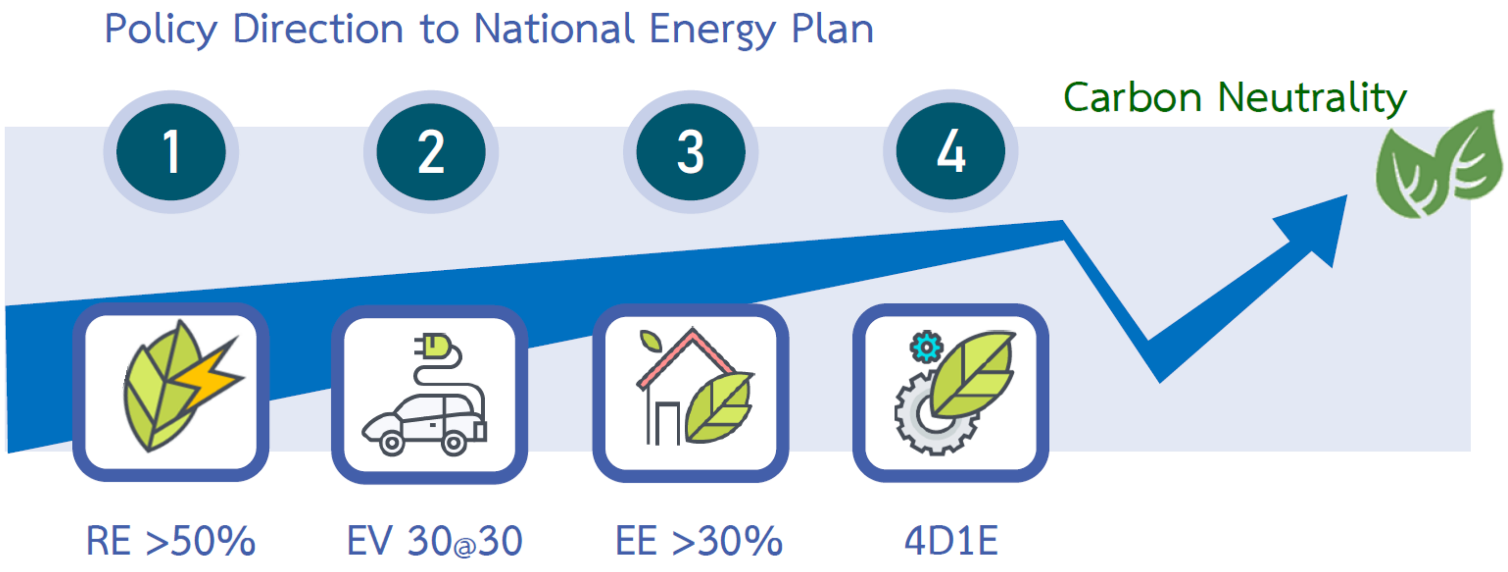
*with the international support

Source: Office of Natural Resources and Environmental Policy and Planning (ONEP)

Accelerating Towards Net Zero 2050

29th September 2025:

- Thailand announced her intention to moved the national Net Zero goal forward by 15 years, from 2065 to 2050, citing an issue of economic survival, not an option, and aligns Thailand with international standards.



4D1E Policy

- **D**IGITALIZATION
- **D**ECARBONIZATION
- **E**LECTRIFICATION
- **D**ECENTRALIZATION
- **D**E-REGULATION

Distributed energy resources enabled by big data-driven alignment of supply and demand

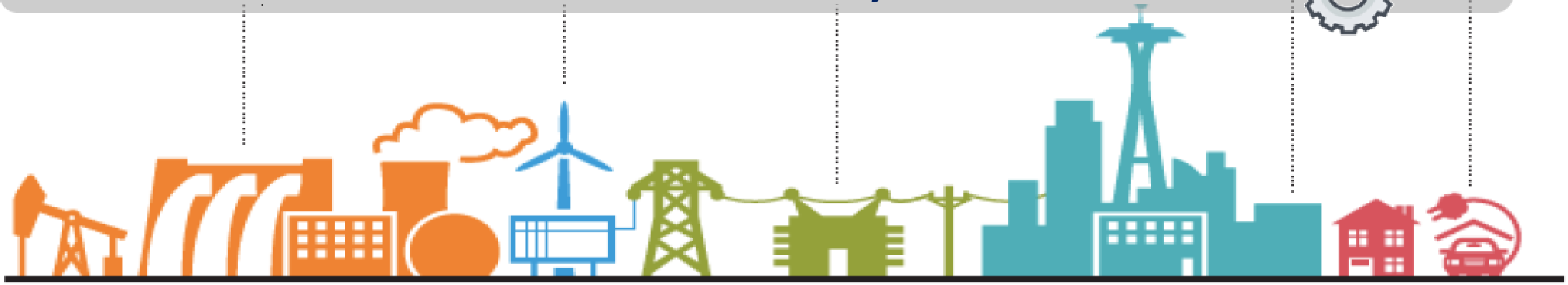
Data-driven asset strategies including preventative and condition-based maintenance and predictive outage

Smart grid and smart pipes allow automated controls to improve network resiliency, safety, and efficiency

Customer inter-actions governed by analysis of customer journeys, segmentation, and personalized communication

Platform supports distributed energy resources and marketplaces

4D1E supporting the Energy Transformation toward Carbon Neutrality



Back-office automation and data-driven decision making

Field workforce with mobile access to maps, data, work-management tools, and real-time expertise

High level of situational awareness to enable energy balancing

Open up opportunity for drives from the public and private sector.

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
- Zero Energy Building

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)