

All slides are taken from the EPPO, Thailand which was co-initiated by ERI-CU and ERDI-CMU

Thailand Hydrogen Strategy & Roadmap

Role of hydrogen to national energy plan



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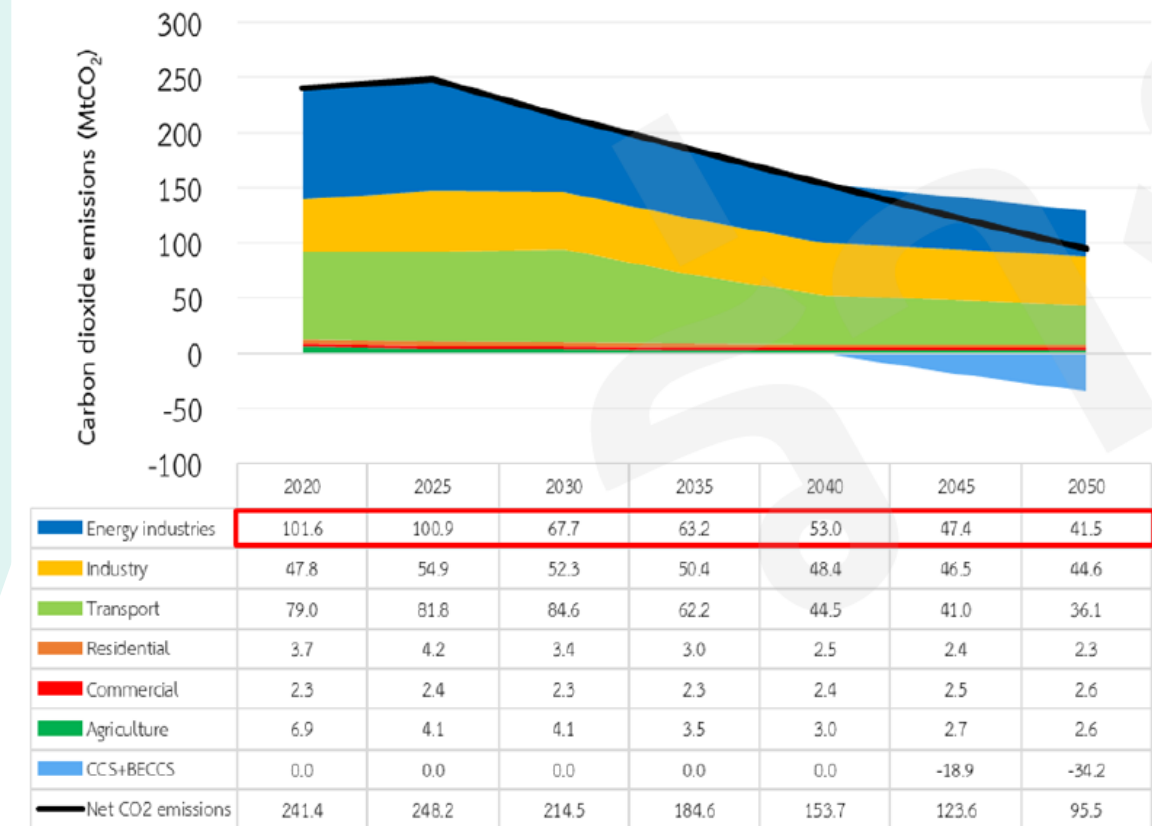
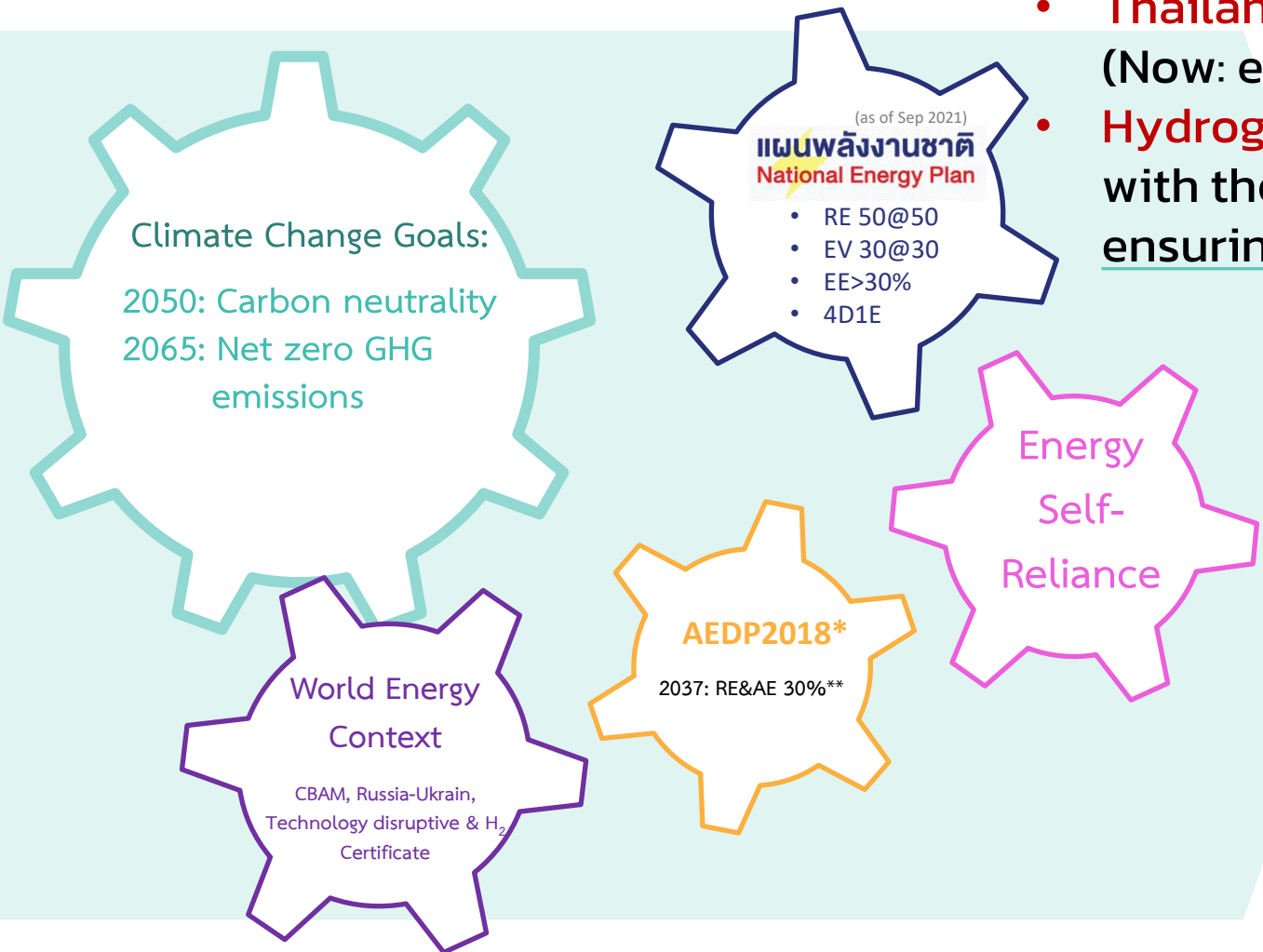
Multidisciplinary Research Institute,
Chiang Mai University, Thailand

Workshop on technology Foresight Scenarios Towards Net-Zero Emission and Policy Impact Assessment

APEC CTF – NXPO @ Sofitel Krabi Phokeethra Golf & Spa Resort 28-30 Aug 2024

Factors Driving the Use of HYDROGEN

- **Thailand:** GHG target 30% or 170 MtCO₂-e by 2030 (Now: emit around 372 MtCO₂-e in 2019).
- **Hydrogen:** Promoting Hydrogen in Energy sector aligns with the Global trends, to achieve climate goals while ensuring energy stability



*AEDP might be developed to be consistent with the Nation Energy Plan

**of final energy consumption

Source: EPPO with ERI-CU and ERDI-CMU

Source: DCCE's LT-LEDS of Thailand

The Development of Commercial Hydrogen

Prepare for readiness

2030

Carbon Neutrality

2023-2024

Commercial Development

2050

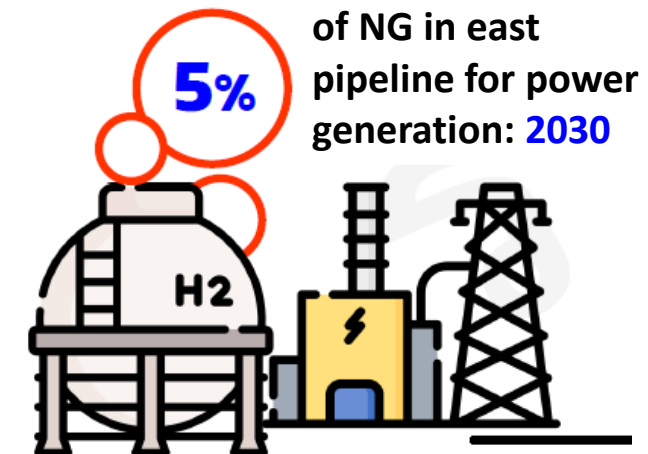
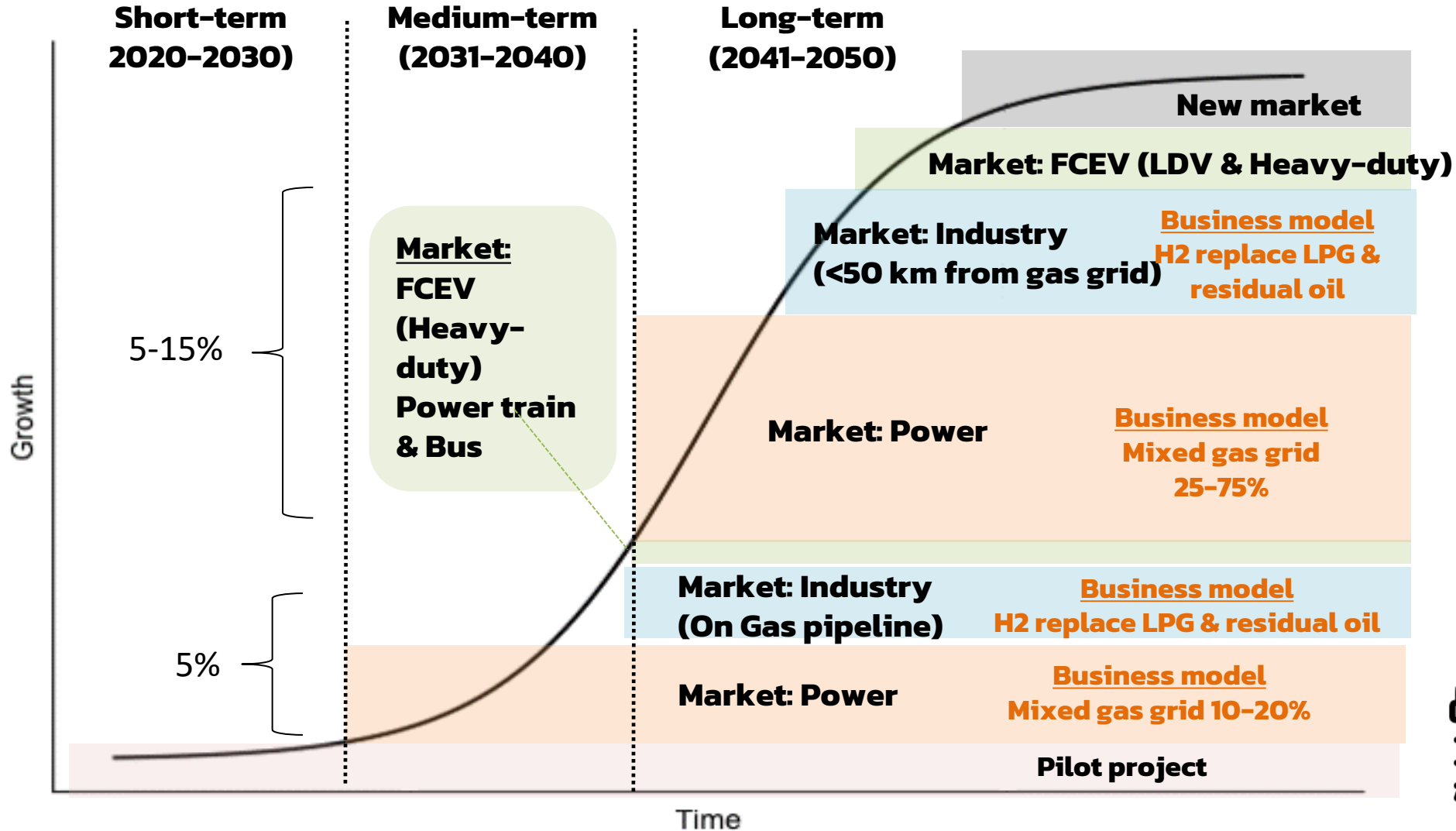
Strategic plan: Hydrogen utilization in the Energy sector 2023 - 2050

**Short-term strategic plan:
Hydrogen utilization in the Energy sector 2023 - 2030**

Hydrogen promotion strategy in Thai Energy sector

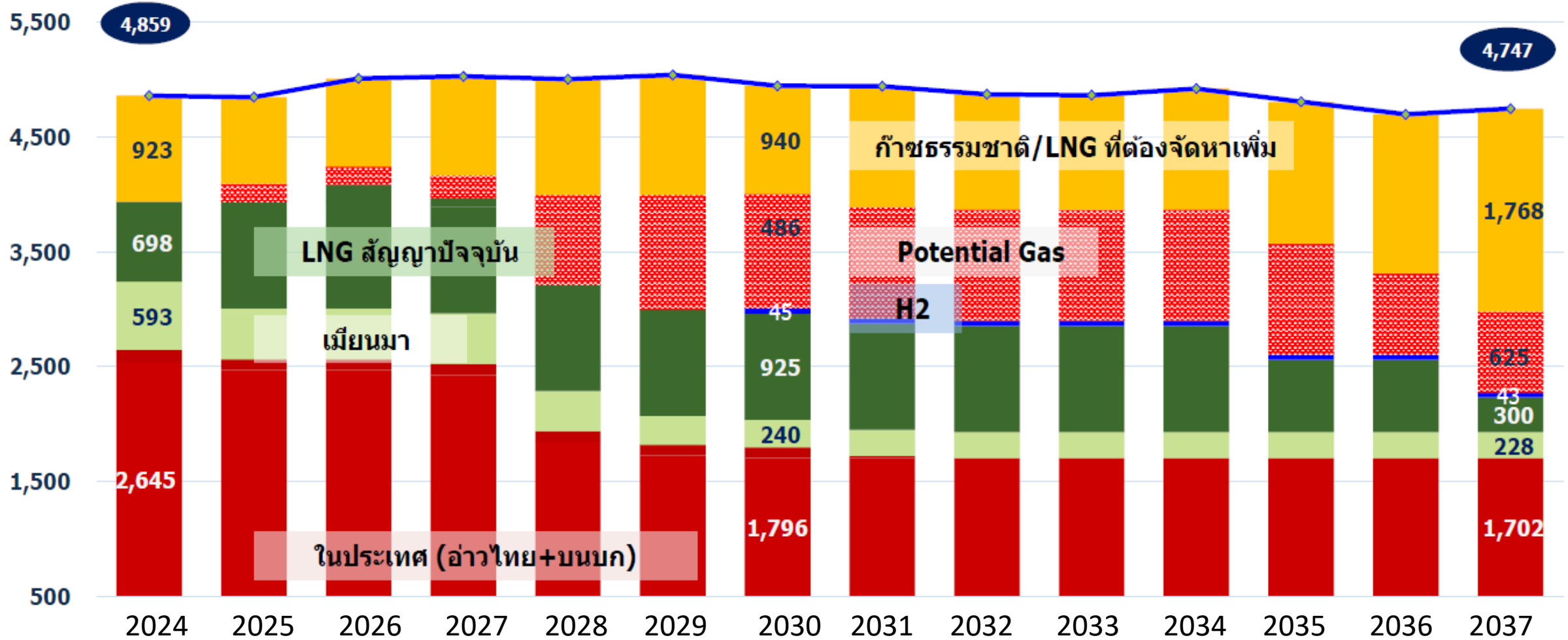
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|---|--|--|--|
| (1) Market development with incentives for H ₂ consumers | (2) R&D promotion and domestic Industrial promotion including carbon | (3) Hydrogen infrastructure development (full chain) | (4) Regulation and standard for hydrogen in Thailand |
|---|--|--|--|

Hydrogen Market in Energy Sector



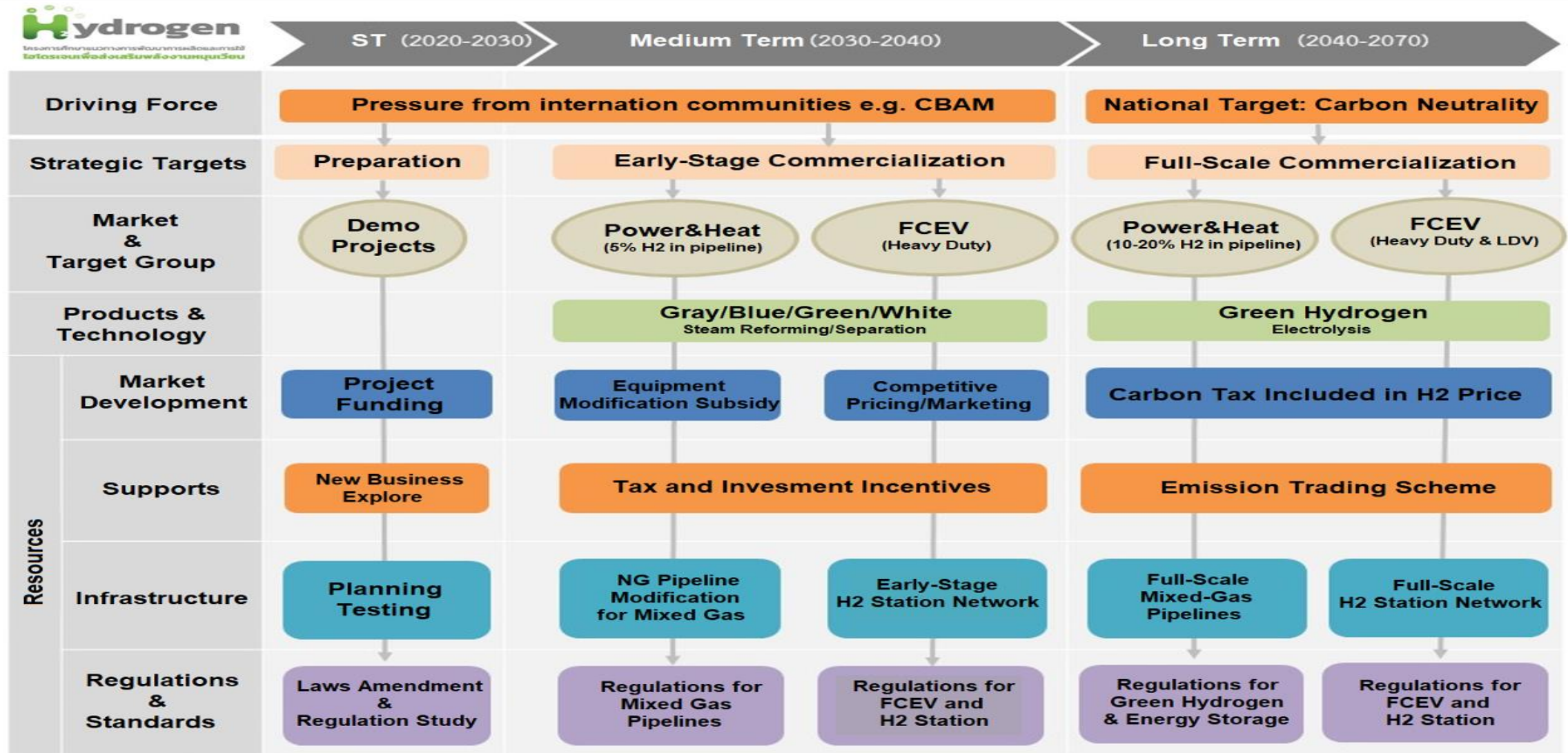
Natural gas supply plan 2025-2037 (from draft NG plan 2024) Supply

Unit : MMSCFD (@ 1,000 BTU/SCF)



Source: EPPO-NG plan 2024 (draft)

Thailand Hydrogen roadmap



Source: EPPO with ERI-CU and ERDI-CMU

THANK YOU

