



Thailand's Policy for Carbon Neutrality and Expectations for JCM

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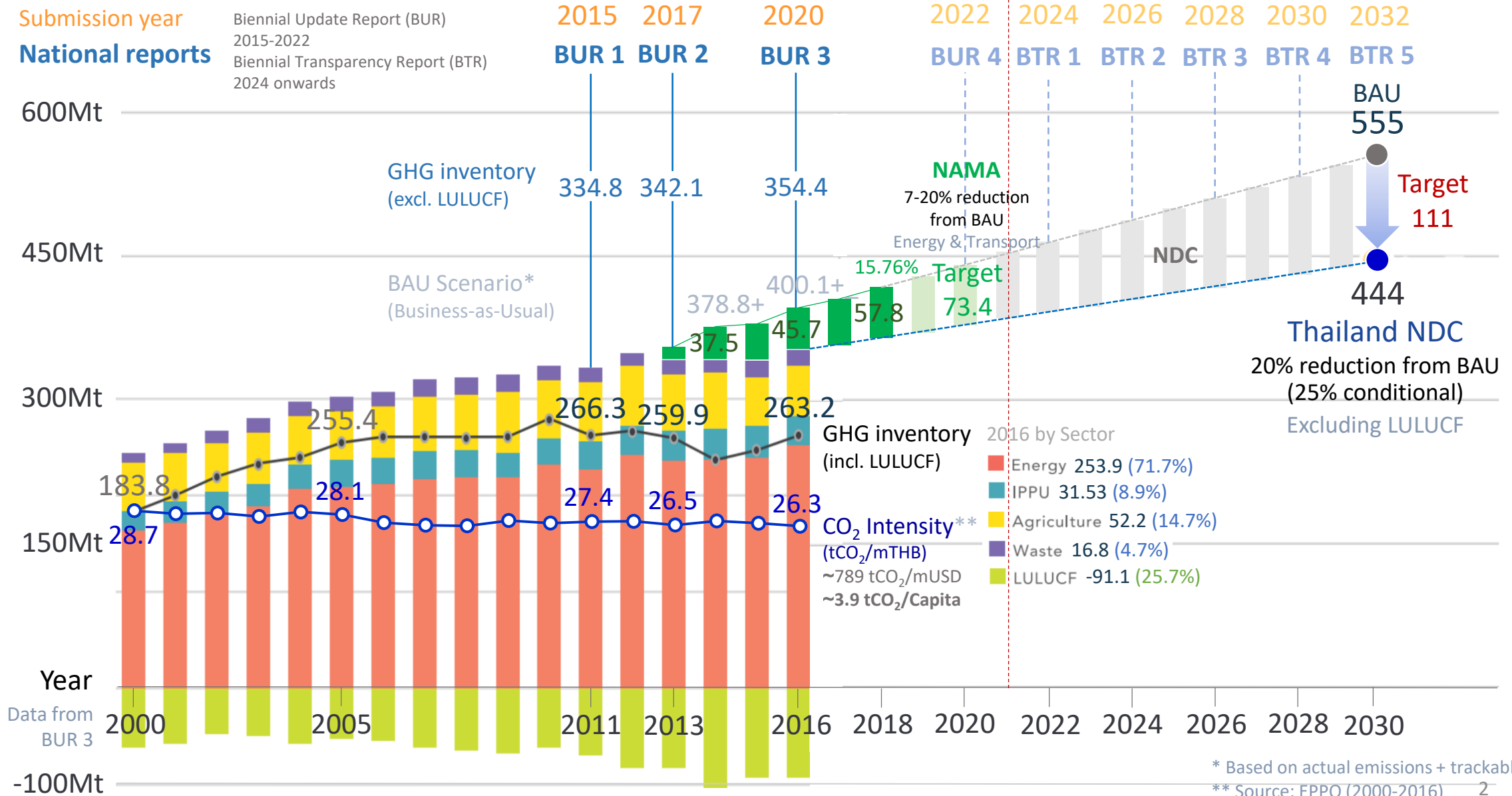
Thailand Greenhouse Gas
Management Organization

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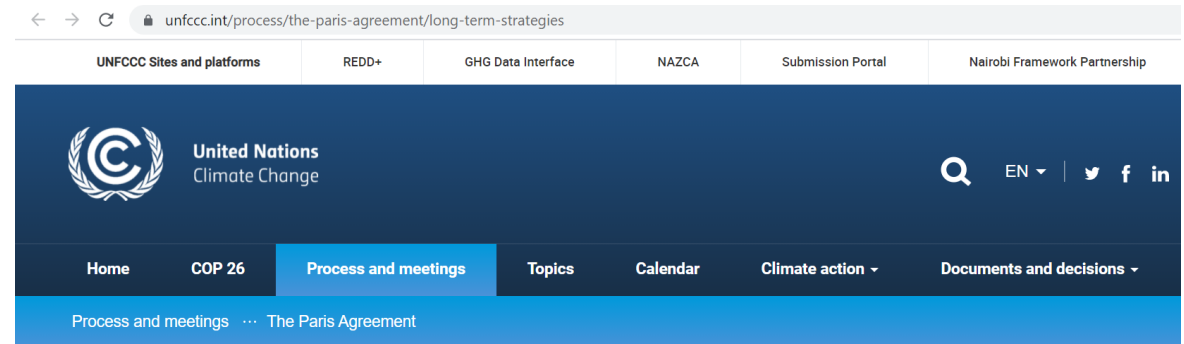
Webinar on the Joint Crediting Mechanism (JCM) Implementation in Thailand

- Innovation for Carbon Neutrality through JCM – September 27, 2021

Thailand's GHG Situation and Emissions Target of NDC



Thailand, through ONEP, is in the process of formulating a Long-term Low Greenhouse Gas Emission Development Strategy (LT-LEDS) which will guide Thailand towards a climate-resilient and low greenhouse gas emissions development and serve as a basis for enhancing its subsequent NDCs and also the future scenarios in 2050. The long-term strategy will be submitted to UNFCCC for communication within 2021.



Communication of long-term strategies

In accordance with Article 4, paragraph 19, of the Paris Agreement, all Parties should strive to formulate and communicate long-term low greenhouse gas emission development strategies, mindful of Article 2 taking into account their common but differentiated responsibilities and respective capabilities, in the light of different national circumstances.



The National Energy Committee Meeting on 4 August 2021 (No. 2/2021) which chaired by General Prayut Chan-o-cha, Prime Minister of the Kingdom of Thailand approved the Framework of National Energy Plan which aims to promote clean energy and move Thailand towards a carbon neutrality in year 2065-2070*.

GHG emission from
daily life, consumption and
economic activity

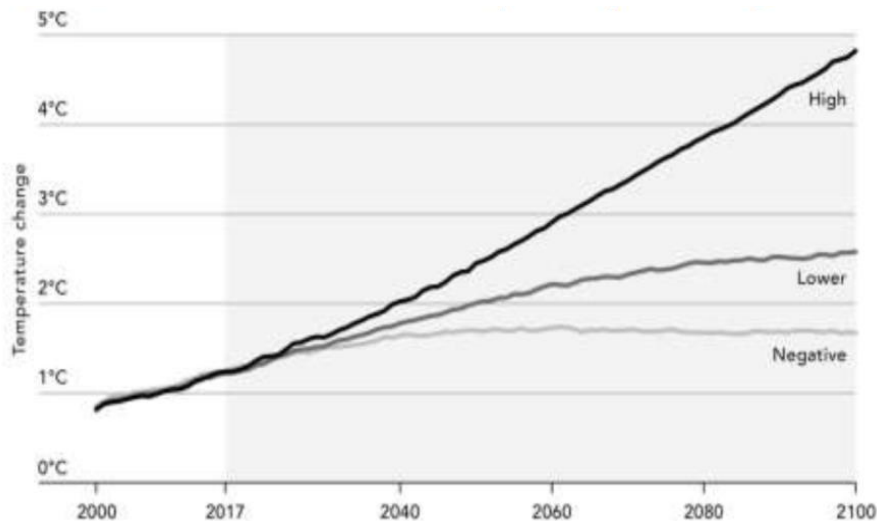
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GHG reduction

+

GHG removal

Increase GHG emission → increase global temperature



- Clean energy
- CCUS (Carbon Capture Utilization and Storage)
- Reduction from industry, transport, construction, agriculture (fertilizer) and livestock
- Minimalist
- others

- Carbon sink
- Afforestation & reforestation
- Direct Air Capture
- Others

2065 - 2070

Net-zero CO₂ (Carbon Neutrality) scenario

Disclaimer: unofficial figures






2075

Net-zero GHG scenario

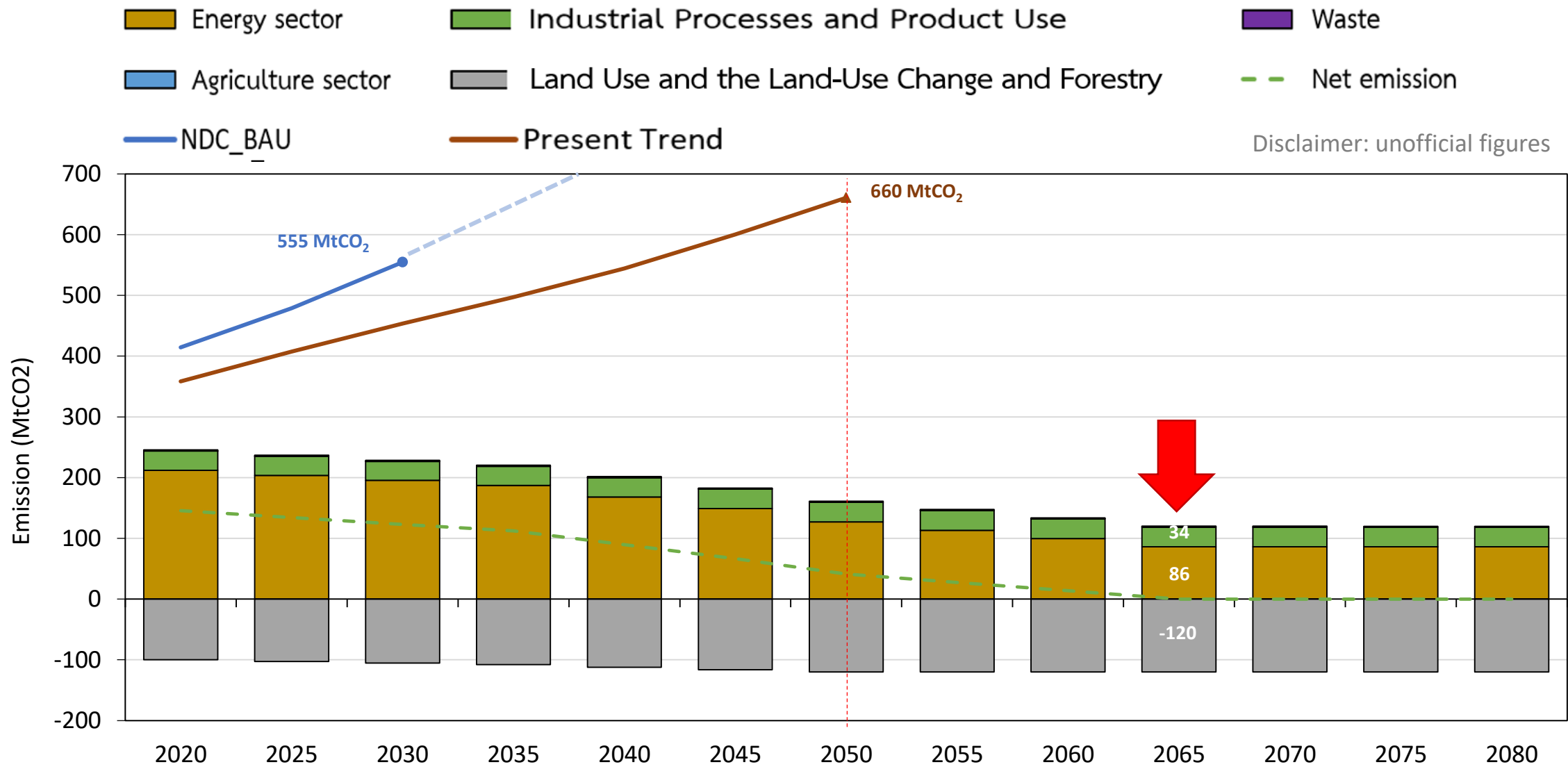
Net Zero vs. 2016 Emissions

Climate Action / Efforts Comparison

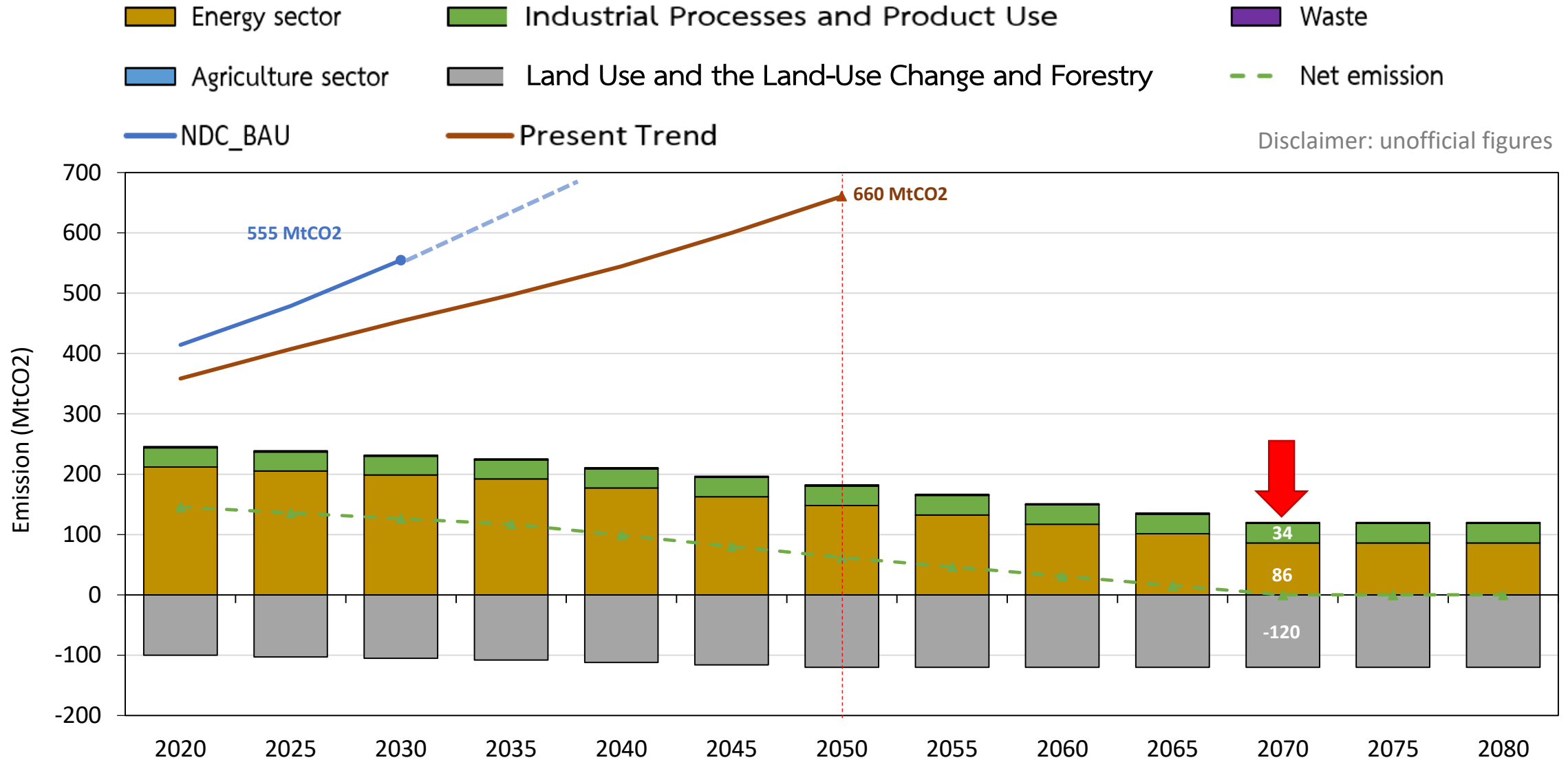


Sector	2016 Emissions (Inventory)		Net Zero Scenario Emissions		= Reductions (Compared to 2016)		+ Removals (Compared to 2016)	
	CO ₂	GHG	Net-zero CO ₂	Net-zero GHG	Net-zero CO ₂	Net-zero GHG	Net-zero CO ₂	Net-zero GHG
 Energy	237.9	253.9	86	20	- 151.9	- 233.9	-	-
 IPPU	30.8	31.5	32.3	33.2	+ 1.5	+ 1.7	-	-
 Agriculture	1.5	52.2	1.5	50.4	-	- 1.8	-	-
 Waste	0.2	16.8	0.2	16.4	-	- 0.4	-	-
 LULUCF	- 91.4	- 91.1	- 120	- 120	-	-	+ 28.6	+ 28.9
Total (Net)	179	263.2	0	0	Unit: MtCO ₂ eq			

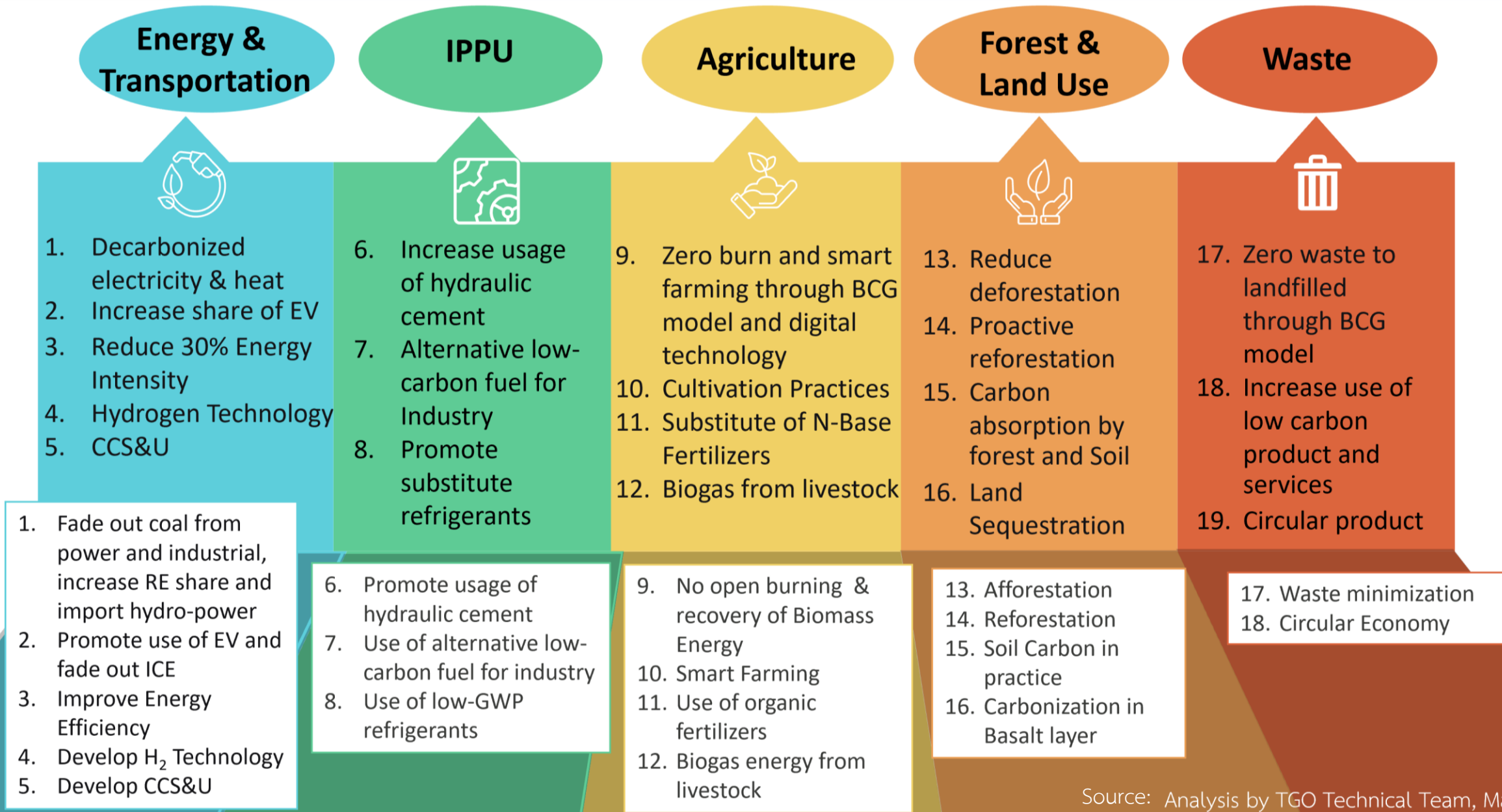
Net Zero CO₂ (Carbon Neutrality) Scenario 2065



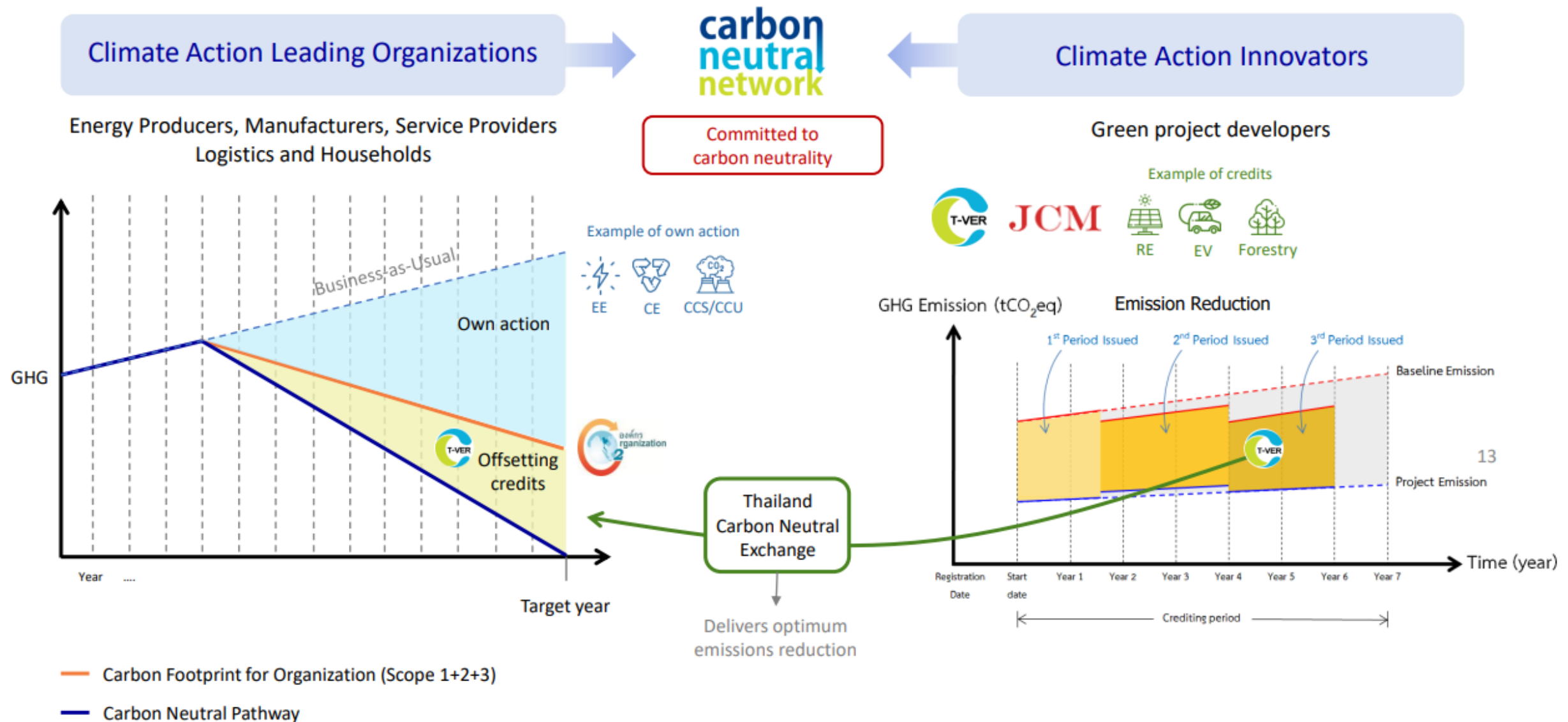
Net Zero CO₂ (Carbon Neutrality) Scenario 2070



Thailand Possible Climate Mitigation Options



How to achieve carbon neutrality by voluntary actions?





Ministry of the Environment

JCM x Carbon Neutral Project / Future target of JCM

Energy-saving infrastructure

Carbon capture and storage (CCS)



Solar power generation



Wind power generation



Hydrogen



Use of ammonia fuel

Waste power generation



Geothermal power generation



Hydropower generation



Storage battery and system management





ขอบคุณครับ

Thank you for your attention



องค์การบริหารจัดการก๊าซเรือนกระจก (องค์การมหาชน)
THAILAND GREENHOUSE GAS Management Organization
(Public Organization)



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