



# Role of market mechanisms and scale-up of the JCM to promote NDC implementation in Thailand

**Accelerating the Joint Crediting Mechanism (JCM)  
to support NDCs implementation  
– Project scale-up and stakeholder collaboration –  
4 December 2019**



# Thailand's GHG Mitigation goal

Pre-2020

## ❖ Nationally Appropriate Mitigation Actions (NAMAs)



**“Thailand will endeavor, on a voluntary basis, to reduce its GHG emissions in the range of 7 to 20 percent below the Business as Usual (BAU) in energy and transportation sectors by 2020, subject to the level of international support provided [...]”**

Coverage:

RE

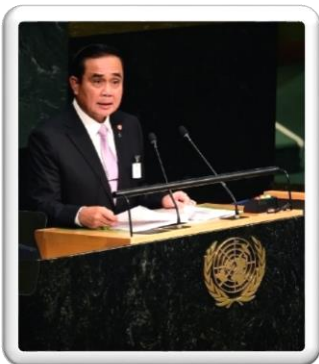
EE

Bio-fuels

Transport

Post-2020

## ❖ Intended Nationally Determined Contribution (INDC)



**“Thailand intends to reduce its greenhouse gas emissions by 20 percent from the projected business-as-usual (BAU) level by 2030. The level of contribution could increase up to 25 percent, subject to adequate and enhanced [support] through a balanced and ambitious global agreement [...]”**

Coverage:

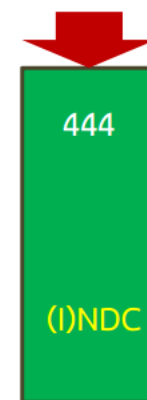
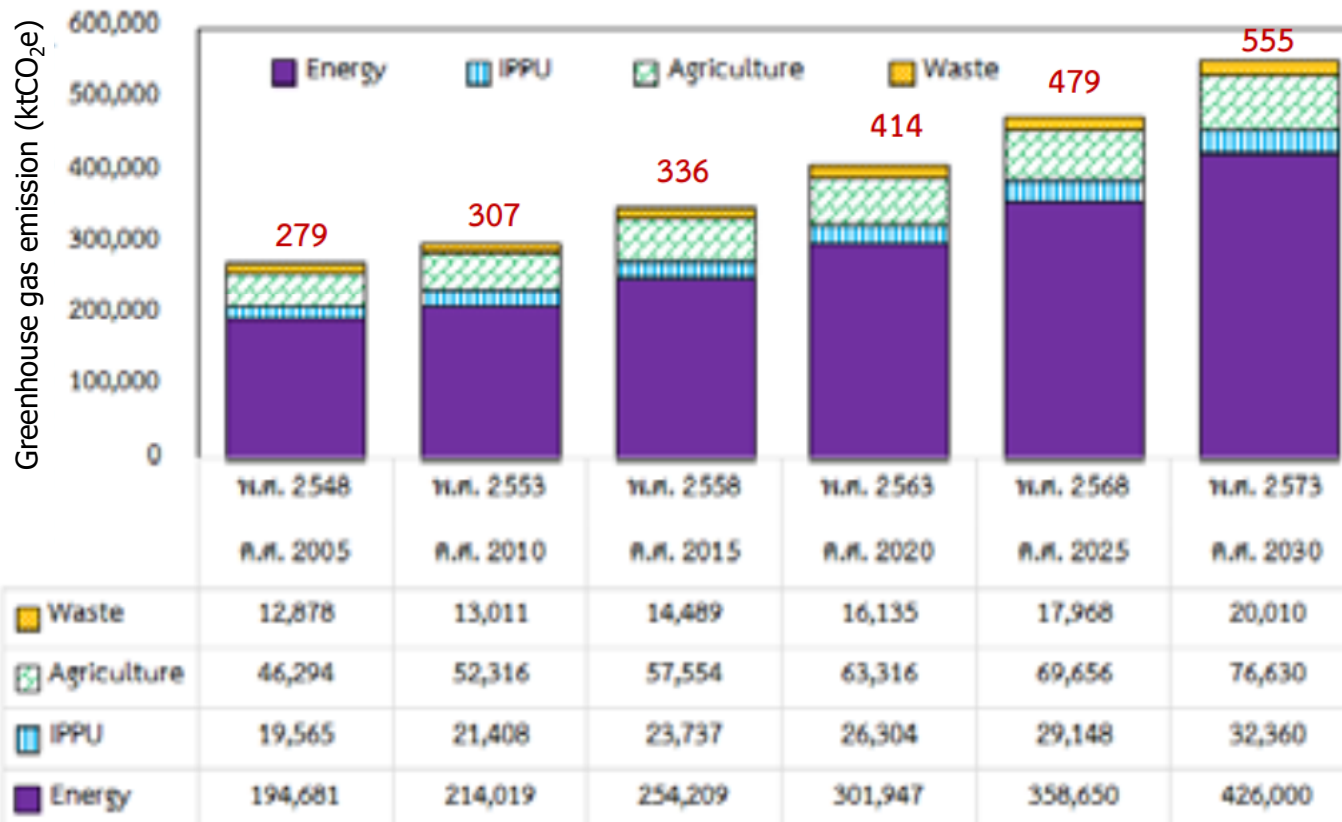
Economy-wide

Inclusion of LULUCF will be decided later



# Thailand's GHG mitigation goal

## Nationally Determined Contributions :NDC)



111 Mt-CO<sub>2</sub>  
20% Reduction  
at 2030

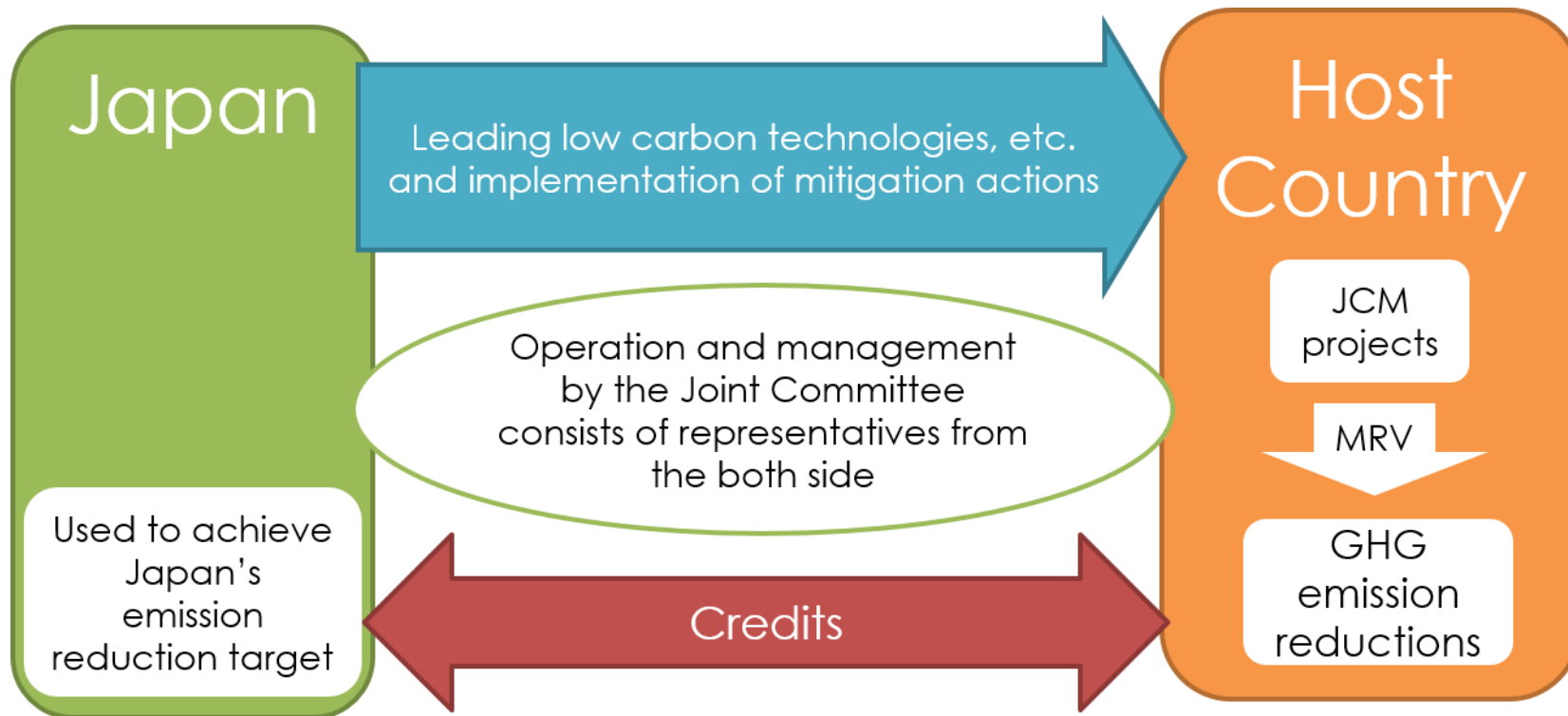
covered by  
Energy,  
transport  
waste and  
IPPU sectors

\* Agriculture  
and Forestry  
sectors are  
under studied.



# Joint Crediting Mechanism (JCM)

- ✦ Implement jointly by both country
- ✦ Promote to diffuse leading low carbon technologies, products, etc.
- ✦ Evaluating GHG emission reductions by measurement, reporting and verification (MRV)

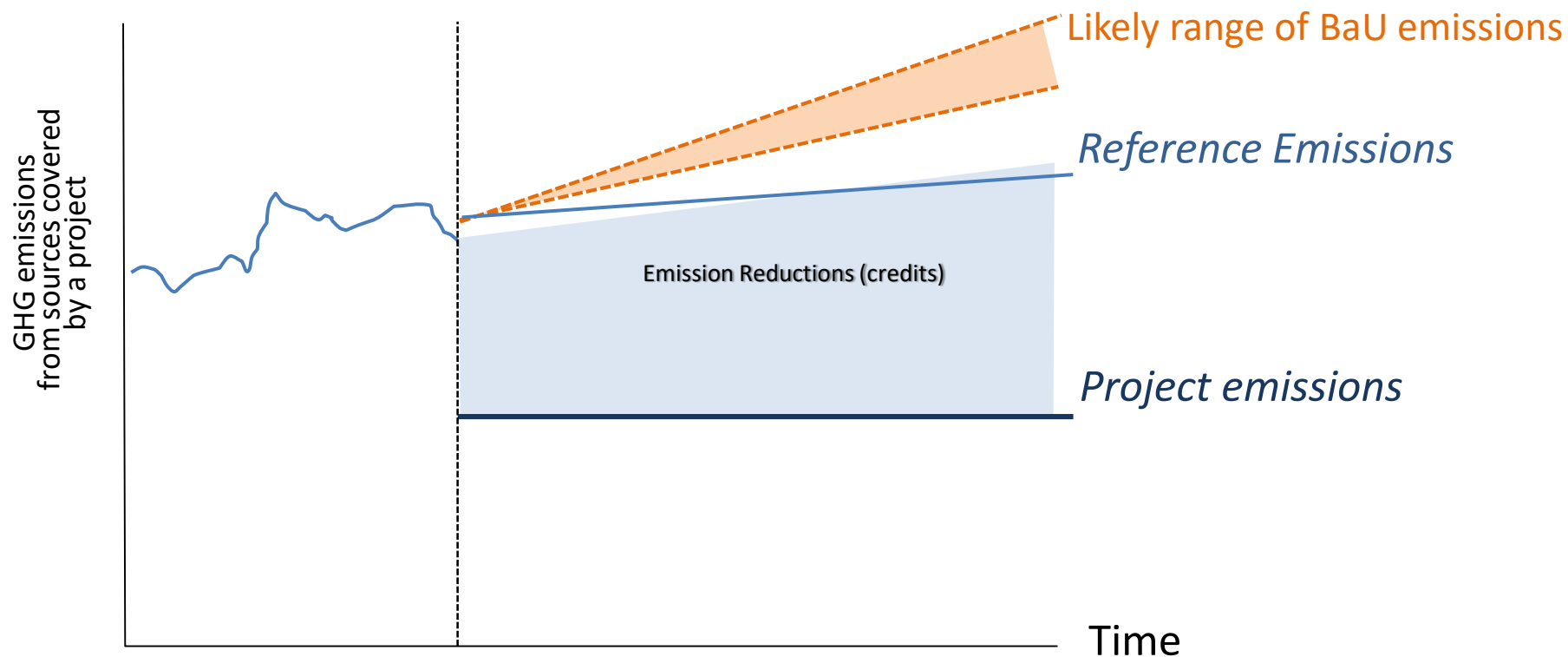




# Joint Crediting Mechanism (JCM)

- use conservative baseline called "reference emissions"

Start of project operation





# Bilateral Cooperation on the JCM for the Low Carbon Growth Partnership between Japan and the Kingdom of Thailand, 19<sup>th</sup> November 2015

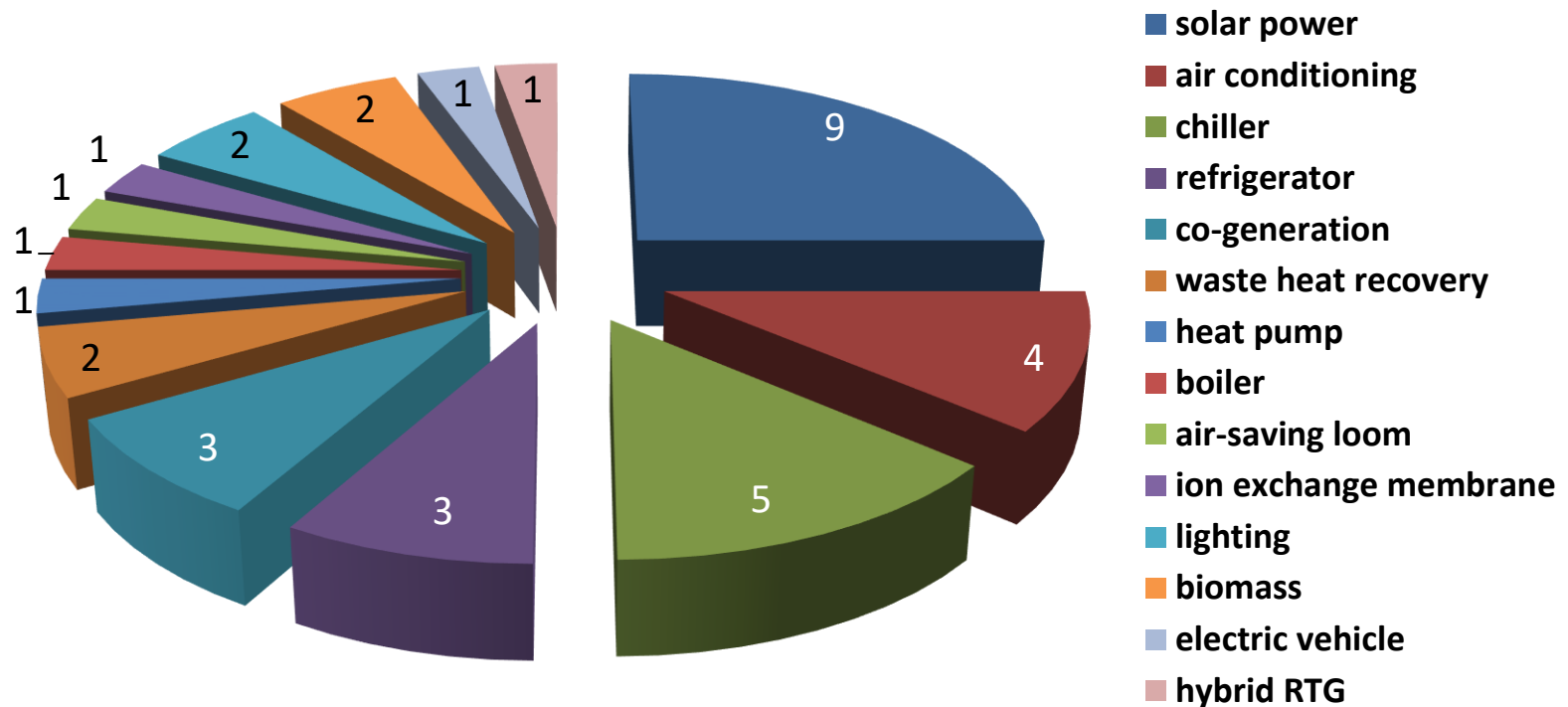
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# JCM Model Projects

Project type	Number of projects	GHG reduction (tCO <sub>2</sub> /y)
energy demand	19	88,802
energy industries	11	85,294
	30	174,096

## number of project categorized by technology



# Role of JCM in achieving NDC target

Environmental integrity			
Robust accounting	avoid double counting by issuing credit in separate registry i.e.		
	Issued Credit (tCO <sub>2</sub> )	Registry of the Thai side	Registry of the Japanese Side
	100	50	50
	Corresponding adjustment	Emission ↑ (emission +50)	Emission ↓ (emission -50)
Quality of units	<ul style="list-style-type: none"> <li>- 1 tCO<sub>2</sub>eq directly leads to an emission reduction of at least 1 tCO<sub>2</sub>eq in the transferring country</li> <li>- permanent</li> </ul>		
Scope of NDC target	JCM activities is covered by Thailand's NDC that is economy wide.		





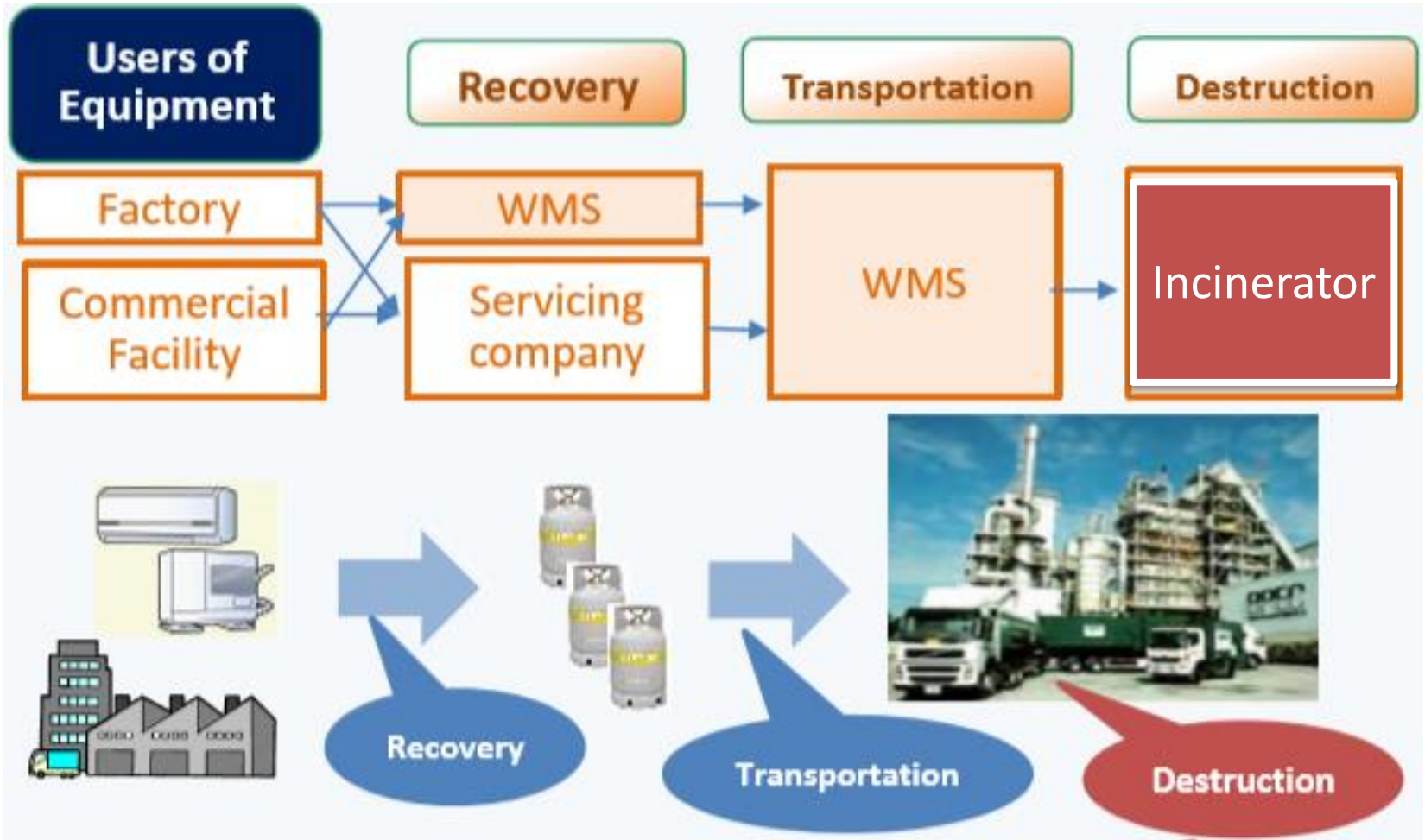
# Thailand's GHG mitigation plan

Activities	Emission reduction MtCO <sub>2</sub>		% of contribution*
	NDC (2030)	JCM (2019)	
Renewable energy -- biomass	64.94	0.036	0.06/2+
Renewable energy -- solar	4.93	0.052	1.06/2+
Energy conservation in factory and building	5.86	0.085	1.45/2+

\* At least 50% of credits must be allocated to the Japanese side.

# JCM F-gas Recovery Destruction Model Project

## Project on Introduction of Scheme for Fluorocarbons Recovery and Destruction with Utilization of Existing Waste Incineration Plant



# Ready Thailand to Combat Climate Change

## Thailand Greenhouse Gas Management Organization (Public Organization): TGO

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