

Status of JCM Implementation in Thailand

Dr. Paweena Panichayapichet

Thailand Greenhouse Gas Management Organization (Public Organization): TGO

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

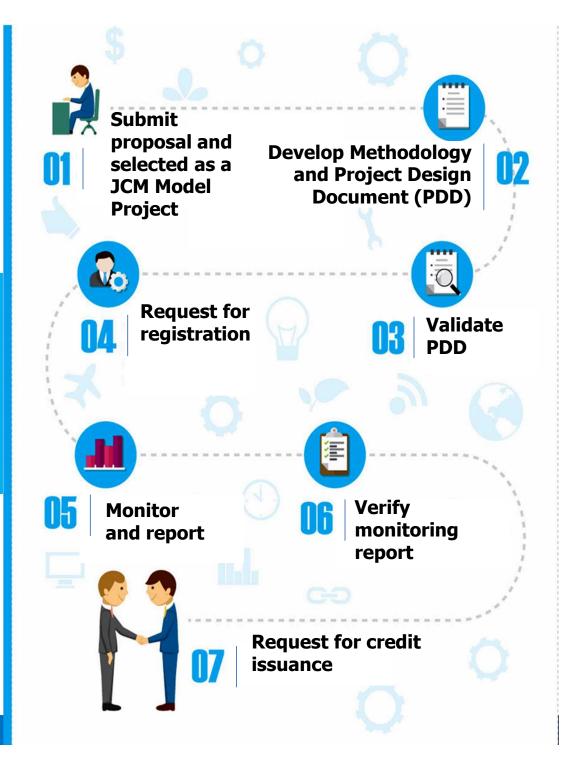
– Utilizing the JCM during the COVID-19 Period
August 25, 2020



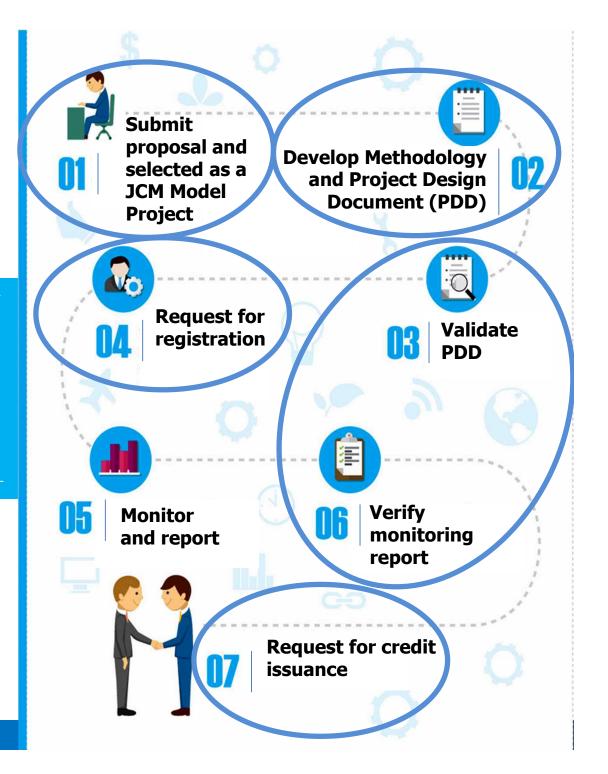
Bilateral Cooperation on the JCM for the Low Carbon Growth Partnership between Japan and the Kingdom of Thailand, 19th November 2015



JCM Development Cycle

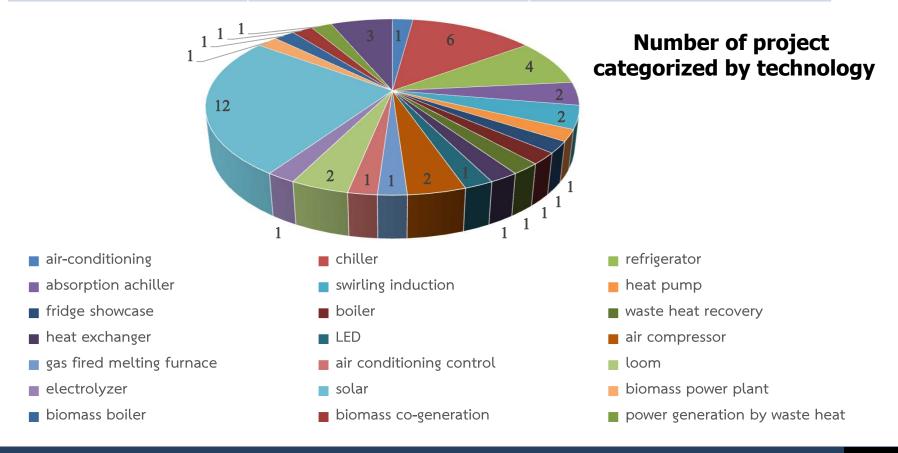


JCM Development Cycle



JCM Model Projects

Project type	Number of projects	GHG reduction (tCO ₂ /y)
energy demand	19	83,536
energy industries	14	102,595
	33	186,131



Approved Methodologies (9 methods)

ID TH_AM	Title	Latest version	Date of approval
001	Installation of Solar PV System	1.0	23 Aug 2016
002	Energy Saving by Introduction of Multi-stage Oil-Free Air Compressor	2.0	21 Aug 2017
003	Energy Saving by Introduction of High Efficiency Inverter Type Centrifugal Chiller	1.0	21 Aug 2017
004	Installation of energy saving air jet loom at textile factory	1.0	21 Aug 2017
005	Energy Saving by Introduction of High Efficiency Non-Inverter Type Centrifugal Chiller	2.0	14 Jan 2019
006	Installation of Displacement Ventilation Air Conditioning Unit in the Cleanroom of Semiconductor Manufacturing Factory	1.0	21 Aug 2017
007	Power Generation by Waste Heat Recovery in Cement Industry	1.0	20 Apr 2018
008	Introducing heat recovery heat pumps with natural refrigerants for the food manufacturing industries	1.0	14 Jan 2019
009	Installation of gas engine cogeneration system to supply electricity and heat	1.0	14 Jan 2019

Proposed Methodologies (7 methods)

Submit request to the secretariat (2 methods)

Title

Energy Saving by Introduction of High Efficiency Once-through Boiler and Installation of Economizer into Existing Boiler

Installation solar PV System

Finish call for public input (5 methods)

Installation of Energy-efficient Refrigerators Using Natural Refrigerant at Cold Storage

Energy Saving by Installation of an Evaporator with Mechanical Vapor Recompression

Energy Saving by Introduction of High Efficiency Screw Chiller for freezing and refrigeration

Installation of an inverter-controlled separate type fridge showcase for convenience store(s)

Introduction of High Efficiency Electrolyzer in Caustic Soda Production Plant

Third Party Entity (5 companies)

Company name	Designated date	1. Energy industries	2. Energy Distribution	3. Energy demand	4. Manufacturing industries	5. Chemical industry	6. Construction	7. Transport	8. Mining/mineral production	9. Metal production	10. Fugitive emissions from fuels	11. Fugitive emissions from production and consumption of halocarbons and sulphur hexafluoride	12. Solvent use	13. Waste handling and disposal	14. Afforestation and reforestation	15. Agriculture
Lloyd's Register Quality Assurance Limited (LRQA)	23 Aug 2016	O	O	O				O						•		
Bureau Veritas Certification Holding SAS (BVC)	23 Aug 2016	O	O	O	O	O		O	O	O	O		O	•	O	•
Japan Quality Assurance Organization (JQA)	21 Aug 2017	O		O	O	O					O			•	O	
Japan Management Association (JMA)	21 Aug 2017	O	O	O											•	
EPIC Sustainability Services Private Limited (EPIC)	10 Dec 2018	O	O	O	O	O	O	O	O	O	O	•	O	•	O	O

Registered Projects (6 projects)

Project Title	Expected Greenhouse Gas Emission Reduction (tCO ₂ eq/year)	Date of approval
Introduction of Solar PV Systems on Rooftops of Factory and	440	21 Aug 2017
Office Building Reducing GHG emission at Textile Factory of Luckytex (Thailand) Public Company Limited by Upgrading to Air-saving Loom	253	20 Apr 2018
Installation of High Efficiency Air Conditioning System and Chillers in Semiconductor Factory	3,327	20 Apr 2018
Energy Saving for Semiconductor Factory with High Efficiency Centrifugal Chiller and Compressor	324	20 Apr 2018
Introduction of 3.4MW Rooftop Solar Power System to Airconditioning Parts Factories	1,071	14 Jan 2019
Power Generation by Waste Heat Recovery in Cement Industry	29,206	2 Aug 2019
Introduction of 30MW Rooftop Solar Power System to Large Supermarkets	12,699	27 Mar 2020
Total	47,320	

Request for registration (7 projects)

Submit request to the secretariat (1 project)

Project Title

Introduction of 5MW Floating Solar Power System on Industrial Water Reservoir in Thailand

Finish call for public input (6 projects)

Project Title

Energy Saving for Air Conditioning in Tire Manufacturing Factory with High Efficiency Centrifugal Chiller

Introduction of Heat Recovery Heat Pumps to a Chicken Slaughtering Plant in Thailand

Introduction of 3.4MW Rooftop Solar Power System in Technical Center and Office Buildings

Introduction of 0.95 MW Rooftop Solar Power System in Cigarette Lighter Factory

Introduction of 0.97 MW Rooftop Solar Power System for Fishery Net Factory

Installation of Co-Generation Plant for On-Site Energy Supply in Motorcycle Factory

Credit Issuance (3 projects)

Project title	JCM credits (tCO ₂ eq)				
	Thai side	Japanese side			
Introduction of Solar PV Systems on Rooftops of Factory and Office Building	149	151			
Installation of High Efficiency Air Conditioning System and Chillers in Semiconductor Factory	1,202	1,202			
Energy Saving for Semiconductor Factory with High Efficiency Centrifugal Chiller and Compressor	57	58			
Total	1,408	1,411			

Request for credit issuance (2 projects)

Submit requests to the secretariat (2 projects)

Project title	JCM credits (tCO ₂ eq)				
	Thai side	Japanese side			
Reducing GHG emission at Textile Factory of Luckytex (Thailand) Public Company Limited by Upgrading to Air-saving Loom	130	130			
Introduction of 3.4MW Rooftop Solar Power System to Air-conditioning Parts Factories	354	355			
Total	484	485			

Seminar & Workshop (18 events)

Title of Meeting	Co-organizer	Date		
		6 th Nov 2015		
JCM capacity building in Thailand		25 th Jan 2016		
Jew capacity ballating in mailand	Institute for Global	22 nd Aug 2017		
		31 st Jan 2019		
A training for JCM TPE	Environmental Strategies (IGES)	26-27 th Jan 2016		
A training for Jewi II L		5 th Sep 2019		
Workshop on writing PDD		30 th Sep 2016		
		11 th Sep 2018		
JCM Implementation in Thailand	Global Environment	12 th Sep 2019		
	Centre Foundation (GEC)	25 th Aug 2020		
Japan-Thailand Joint Crediting	Ministry of Economy, Trade and	6-7 th Jul 2016		
Mechanism (JCM)	Industry (METI)	17 th Oct 2017		
Developing JCM Projects in Thailand	Asian Development Bank (ADB)	27 th Sep 2016		
		7 th Apr 2016		
Opportunities and Development of JCM		5 th Oct 2016		
for the private sector (give information	Thailand Greenhouse Gas	7 th Apr 2017		
of the MOEJ funding for FY 2016 – First	Management Organization (TGO)	10 th Apr 2018		
call)		5 th Apr 2019		

Ready Thailand to Combat Climate Change

Thailand Greenhouse Gas Management Organization (Public Organization): TGO

The Government Complex, Ratthaprasasanabhakti Bldg., 9th Fl., 120 Chaengwattana Rd., Laksi, Bangkok 10210

Tel. +66 2141 9790 Fax. +66 2143 8404 www.tgo.or.th



