Current status and progresses on the Implementation of the JCM in Thailand

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APCF2018 Side Event by OECC

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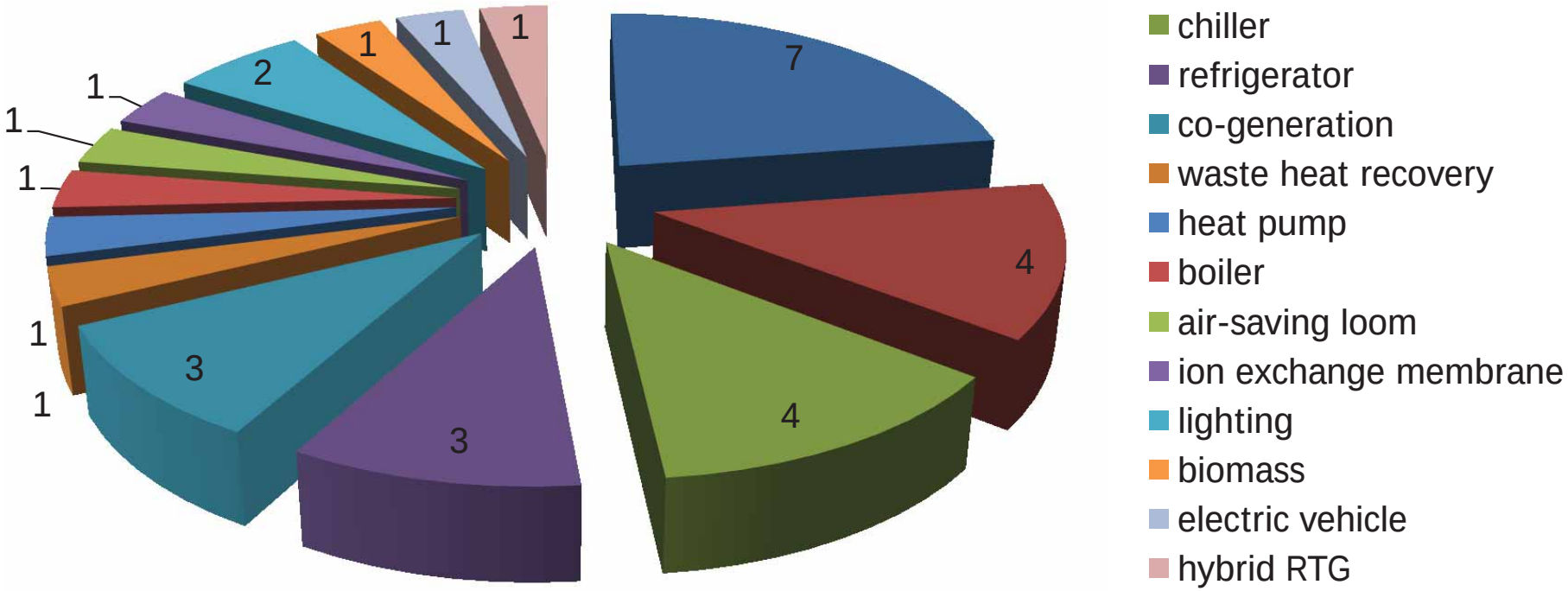
JCM Model Projects

Project type	Number of projects	GHG reduction (tCO_2/y)
energy demand	18	90,542
energy industries	8	39,416
	26	129,958

Number of project categorized by technology



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Approved Methodologies (7 methods)

ID	Title	Latest version	Date of approval
TH_AM007	Power Generation by Waste Heat Recovery in Cement Industry	Ver1.0	20 Apr 18
TH_AM006	Installation of Displacement Ventilation Air Conditioning Unit in the Cleanroom of Semiconductor Manufacturing Factory	Ver1.0	21 Aug 17
TH_AM005	Energy Saving by Introduction of High Efficiency Non-Inverter Type Centrifugal Chiller	Ver1.0	21 Aug 17
TH_AM004	Installation of energy saving air jet loom at textile factory	Ver1.0	21 Aug 17
TH_AM003	Energy Saving by Introduction of High Efficiency Inverter Type Centrifugal Chiller	Ver1.0	21 Aug 17
TH_AM002	Energy Saving by Introduction of Multi-stage Oil-Free Air Compressor	Ver2.0	21 Aug 17
TH_AM001	Installation of Solar PV System	Ver1.0	23 Aug 16

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Proposed Methodologies (5 methods)

Title
Installation of inverter-controlled air conditioning system for convenience store
Installation of inverter-controlled separate type fridge showcase for convenience store
Installation of gas engine cogeneration system to supply electricity and heat
Introducing heat recovery heat pumps for the food manufacturing industries
Energy Saving by Introduction of High Efficiency Once-through Boiler or/and Installation of Economizer into Existing Boiler

2 Registered Projects (4 projects)

Project Title	Expected Greenhouse Gas Emission Reduction ($tCO_2eq/year$)
Introduction of Solar PV Systems on Rooftops of Factory and Office Building	440
Reducing GHG emission at Textile Factory of Luckytex (Thailand) Public Company Limited by Upgrading to Air-saving Loom	253
Installation of High Efficiency Air Conditioning System and Chillers in Semiconductor Factory	3,327
Energy Saving for Semiconductor Factory with High Efficiency Centrifugal Chiller and Compressor	324
Total	**4,344**

2 Request for registration (3 projects)

Project Title
Introduction of 3.4 MW Rooftop Solar Power System to Air Conditioning Parts Factories
Energy Saving for Air-Conditioning in Tire Manufacturing Factory with High Efficiency Centrifugal Chiller
Power Generation by Waste heat Recovery in Cement Industry

3 Credit Issuance (1 project)

ID	Project Title
TH001	**Introduction of Solar PV Systems on Rooftops of Factory and Office Building**

Year	Credit (tCO_2)	Thai side	Japanese Side	Percentage of Support
2016	137	68	69	54.1
2017	163	81	82	
Total	**300**	**149**	**151**	
Percentage	100	49.7	50.3	

4 Third Party Entity

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	❍ ●	❍ ●	❍ ●				❍ ●						❍ ●		
Bureau Veritas Certification Holding SAS (BVC)	23 Aug 2016	❍ ●	❍ ●	❍ ●	❍ ●	❍ ●	❍ ●	❍ ●	❍ ●	❍ ●	❍ ●	❍ ●	❍ ●	❍ ●	❍ ●	❍ ●
Japan Quality Assurance Organization (JQA)	21 Aug 2017	❍ ●		❍ ●	❍ ●	❍ ●					❍ ●			❍ ●	❍ ●	
Japan Management Association (JMA)	21 Aug 2017	❍ ●	❍ ●	❍ ●											●	

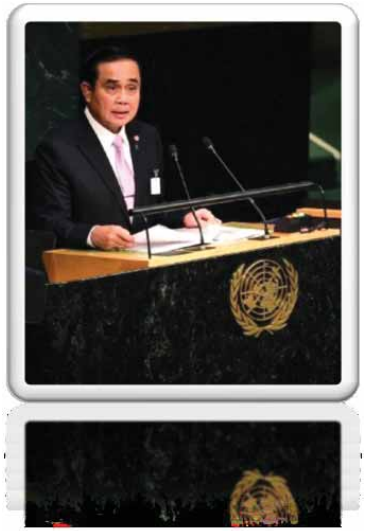
5 Seminar & Workshop

Title of Meeting	Co-organizer	Number of time
JCM capacity building in Thailand	IGES	6th Nov 2015
		25th Jan 2016
		22nd Aug 2017
A training for JCM TPE	IGES	26-27th Jan 2016
Workshop on writing PDD	IGES	30th Sep 2016
Japan-Thailand Joint Crediting Mechanism (JCM)	METI	6-7th Jul 2016
		17th Oct 2017
Developing JCM Projects in Thailand	ADB	27th Sep 2016
Opportunities and Development of JCM for the private sector (give information of the MOEJ funding for FY 2016 – First call)	TGO	7th Apr 2016
		5th Oct 2016
		7th Apr 2017
		10th Apr 2018

Thailand's GHG Mitigation goal

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

Role of JCM in achieving NDC target

<table>
<tr><th colspan="2">Environmental integrity</th></tr>
<tr><td>Robust accounting</td><td>avoid double counting by issuing credit in separate registry i.e.
<table>
<tr><th>Issued Credit (tCO_2)</th><th>Registry of the Thai side</th><th>Registry of the Japanese Side</th></tr>
<tr><td>100</td><td>49</td><td>51</td></tr>
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</td></tr>
<tr><td></td><td>avoid double claiming by having a common rules that each side must follow JCM rule which is titled “Common Specifications of the JCM Registry”</td></tr>
<tr><td></td><td>can be accounted for NDC targets and emission reduction</td></tr>
<tr><td>Quality of units</td><td>- 1 tCO_2eq directly leads to an emission reduction of at least 1 tCO_2eq in the transferring country
- additional
- not over estimated
- permanent</td></tr>
<tr><td>Scope of NDC target</td><td>- JCM activities is covered by Thailand’s NDC that is economy wide.</td></tr>
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Ready Thailand to Combat Climate Change

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