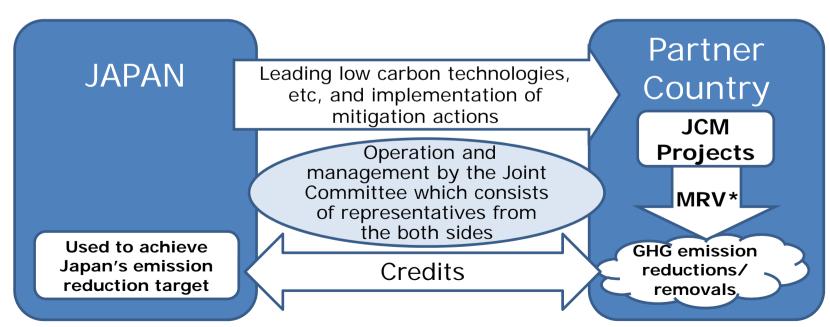
Recent Development of The Joint Crediting Mechanism (JCM)

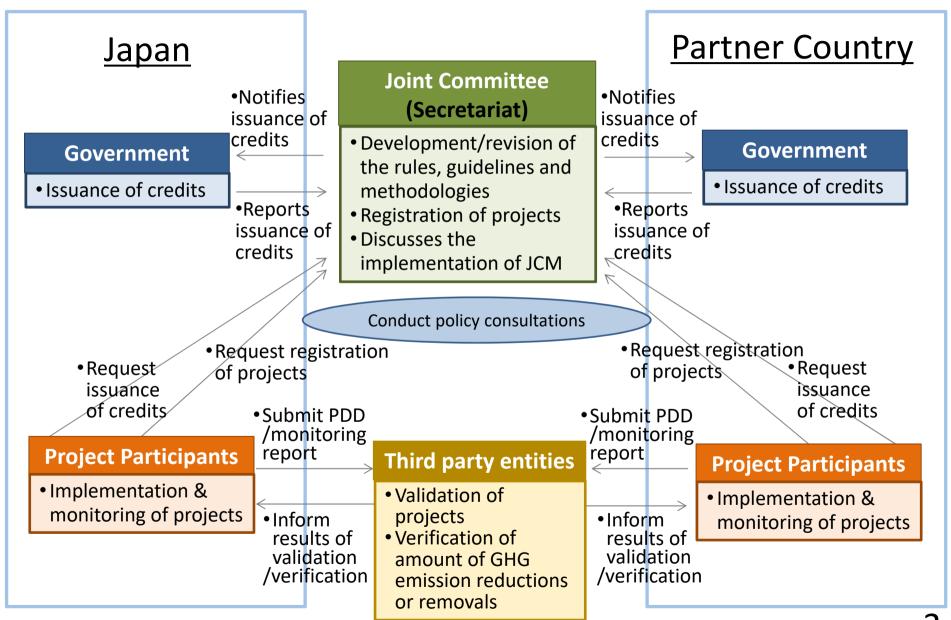
Aug 2019 Government of Japan

Basic Concept of the JCM

- > Facilitating diffusion of leading low carbon technologies, products, systems, services, and infrastructure as well as implementation of mitigation actions, and contributing to sustainable development of developing countries.
- > Appropriately evaluating contributions from Japan to GHG emission reductions or removals in a quantitative manner and use them to achieve Japan's emission reduction target.
- Contributing to the ultimate objective of the UNFCCC by facilitating global actions for GHG emission reductions or removals.



Scheme of the JCM



The role of the Joint Committee and each Government

- ➤ The Joint Committee (JC) consists of representatives from both Governments.
- ➤ The JC develops rules and guidelines necessary for the implementation of the JCM.
- The JC determines either to approve or reject the proposed methodologies, as well as develops JCM methodologies.
- > The JC designates the third-party entities (TPEs).
- ➤ The JC decides on whether to register JCM projects which have been validated by the TPEs.
- > Each Government establishes and maintains a registry.
- On the basis of notification for issuance of credits by the JC, each Government issues the notified amount of credits to its registry.

Features of the JCM

- (1) The JCM starts its operation as a non-tradable credit type mechanism.
- (2) Both Governments continue consultation for the transition to a tradable credit type mechanism and reach a conclusion at the earliest possible timing, taking account of implementation of the JCM.
- (3) The JCM aims for concrete contributions to assisting adaptation efforts of developing countries after the JCM is converted to the tradable credit type mechanism.

Project Cycle of the JCM and the CDM

of credits

JCM CDM <Main actors at each process> **Submission of** Project Participant / Each Government **Proposed** Project Participant Joint Committee Methodology Approval of **CDM Executive Board** Joint Committee **Proposed** Methodology conducted by the same TPE **Development** simultaneously Project Participant Project Participant of PDD **Designated Operational Entities** Third Party Entities **Validation** (DOEs) Registration Joint Committee **CDM Executive Board** conducted **Monitoring** Project Participant **Project Participant DOEs** Verification **Third Party Entities** be be Can Joint Committee decides the amount Issuance **CDM Executive Board** Each Government issues the credit

JCM Partner Countries

➤ Japan has held consultations for the JCM with developing countries since 2011 and has established the JCM with Mongolia, Bangladesh, Ethiopia, Kenya, Maldives, Viet Nam, Lao PDR, Indonesia, Costa Rica, Palau, Cambodia, Mexico, Saudi Arabia, Chile, Myanmar, Thailand and the Philippines.



Mongolia
Jan. 8, 2013
(Ulaanbaatar)



Bangladesh Mar. 19, 2013 (Dhaka)



Ethiopia May 27, 2013 (Addis Ababa)



Kenya Jun. 12,2013 (Nairobi)



<u>Maldives</u> Jun. 29, 2013 (Okinawa)



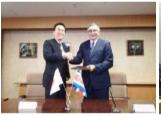
<u>Viet Nam</u> Jul. 2, 2013 (Hanoi)



Lao PDR Aug. 7, 2013 (Vientiane)



Indonesia Aug. 26, 2013 (Jakarta)



Costa Rica Dec. 9, 2013 (Tokyo)



Palau Jan. 13, 2014 (Ngerulmud)



Cambodia
Apr. 11, 2014
(Phnom Penh)



Mexico
Jul. 25, 2014
(Mexico City)



Saudi Arabia May 13, 2015



Chile May 26, 2015 (Santiago)



Myanmar Sep. 16, 2015 (Nay Pyi Taw)



Thailand Nov. 19, 2015 (Tokyo)



the Philippines
Jan. 12, 2017
(Manila)

Statement by Prime Minister Shinzo Abe at the COP21 (Excerpt)





The second component of Japan's new set of contribution is innovation. The key to acting against climate change without sacrificing economic growth is the development of innovative technologies. To illustrate, there are technologies to produce, store and transport hydrogen towards realizing CO2–free societies, and a next-generation battery to enable an electric car to run 5 times longer than the current level. By next spring Japan will formulate the "Energy and Environment Innovation Strategy." Prospective focused areas will be identified and research and development on them will be strengthened. (snip)

In addition, many of the advanced low-carbon technologies do not generally promise investment-return to developing countries. Japan will, while lowering burdens of those countries, promote diffusion of advanced low carbon technologies particularly through implementation of the JCM.

Japan's INDC (Excerpt)

Japan's INDC

O Japan's INDC towards post-2020 GHG emission reductions is at the level of a reduction of 26.0% by fiscal year (FY) 2030 compared to FY 2013 (25.4% reduction compared to FY 2005) (approximately 1.042 billion t-CO₂eq. as 2030 emissions), ensuring consistency with its energy mix, set as a feasible reduction target by bottom-up calculation with concrete policies, measures and individual technologies taking into adequate consideration, *inter alia*, technological and cost constraints, and set based on the amount of domestic emission reductions and removals assumed to be obtained.

Information to facilitate clarity, transparency and understanding

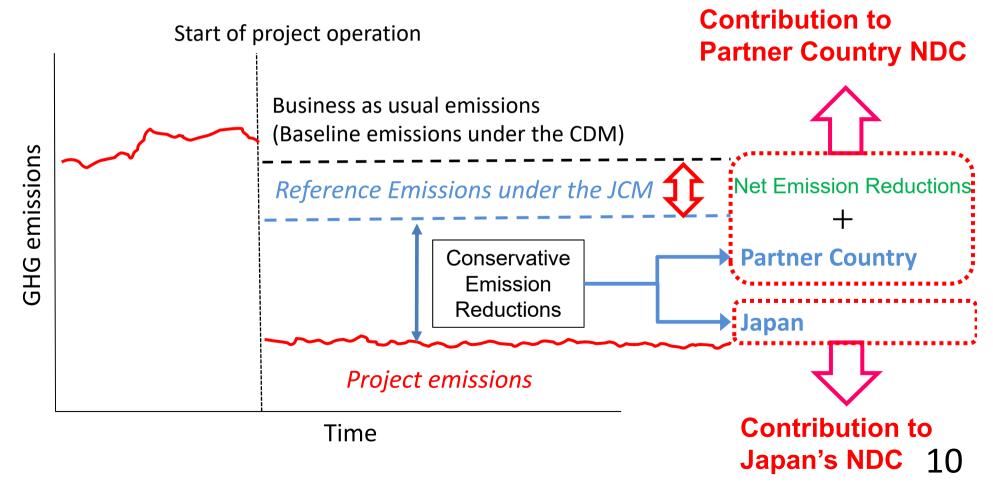
O The JCM is not included as a basis of the bottom-up calculation of Japan's emission reduction target, but the amount of emission reductions and removals acquired by Japan under the JCM will be appropriately counted as Japan's reduction.

Reference information GHG emissions and removals JCM and other international contributions

- O Japan establishes and implements the JCM in order both to appropriately evaluate contributions from Japan to GHG emission reductions or removals in a quantitative manner achieved through the diffusion of low carbon technologies, products, systems, services, and infrastructure as well as implementation of mitigation actions in developing countries, and to use them to achieve Japan's emission reduction target.
- O Apart from contributions achieved through private-sector based projects, accumulated emission reductions or removals by FY 2030 through governmental JCM programs to be undertaken within the government's annual budget are estimated to be ranging from 50 to 100 million t-CO₂₀

JCM's Contribution to NDC

- JCM's conservative emission reduction calculation (reference emissions below BaU emissions) will ensure a net decrease and/or avoidance of GHG emissions.
- This part of emission reductions will automatically contribute to the achievement of NDC.



The JCM related Articles in the Paris Agreement

Article 6 of the Agreement

- 2. Parties shall, where engaging on a voluntary basis in cooperative approaches that involve the use of internationally transferred mitigation outcomes towards nationally determined contributions, promote sustainable development and ensure environmental integrity and transparency, including in governance, and shall apply robust accounting to ensure, inter alia, the avoidance of double counting, consistent with guidance adopted by the Conference of the Parties serving as the meeting of the Parties to the Paris Agreement.
- 3. The use of internationally transferred mitigation outcomes to achieve nationally determined contributions under this Agreement shall be voluntary and authorized by participating Parties.
- Use of market mechanisms, including the JCM, is articulated under Article 6 which prescribes for the use of emission reductions realized oversees towards national emission reduction targets.
- The amount of emission reductions and removals acquired by Japan under the JCM will be appropriately counted as Japan's reduction in accordance with the Paris Agreement.
- Japan is going to contribute to the development of the guidance for robust accounting including for avoidance of double counting to be adopted by the CMA*.

The UNFCCC documents related to the JCM (1/2)

Decision 1/CP18

- 41. Acknowledges that Parties, individually or jointly, may develop and implement various approaches, including opportunities for using markets and non-markets, to enhance the cost-effectiveness of, and to promote, mitigation actions, bearing in mind different circumstances of developed and developing countries;
- 42. Re-emphasizes that, as set out in decision 2/CP.17, paragraph 79, all such approaches must meet standards that deliver real, permanent, additional and verified mitigation outcomes, avoid double counting of effort and achieve a net decrease and/or avoidance of GHG emissions;
- 44. *Requests* the SBSTA to <u>conduct a work programme</u> to elaborate a framework for such approaches, drawing on the work of the AWG-LCA on this matter, including the relevant workshop reports and technical paper, and experience of existing mechanisms, with a view to recommending a draft decision to the COP for adoption at its 19th session;
- 45. Considers that any such framework will be developed under the authority and guidance of the Conference of the Parties;

The UNFCCC documents related to the JCM (2/2)

Decision 19/CP18

Common tabular format for

"UNFCCC biennial reporting guidelines for developed country Parties"

Tab	e 4(b) F	Reporti	ng on p	orogre	SS									
Kyoto Protocol units ^d								Other units ^{d,e}						
				(k	t CO2 eq)						(kt CC	$O_2 eq$		
AAUs			ERUs		CERs		tCERs		lCERs		Units from market-based mechanisms under the Convention		Units from other market-based mechanisms	
20XX-3	20XX-2	20XX-3	Year X-2	20XX-3	20XX-2	20XX-3	20XX-2	20XX-3	20XX-2	20XX-3	20XX-2	20XX-3	20XX-2	
Quantity	of units						<u>-</u>							
				20XX-3				20XX-2						
Total										•				

- The JCM is one of various approaches based on Decision 1/CP.18, jointly developed and implemented by Japan and partner countries, and Japan intends to contribute to elaborating the framework for such approaches under the UNFCCC.
- Japan has reported and will report to the COP the use of the JCM in Biennial Reports including the Common Tabular in line with Decision 19/CP18.

JCM Registry

Account holders

General users

Establishment & operation

- A registry will be established by each side (Rol (draft) para13 (b)).
- •The registries need to share <u>"Common specifications"</u>, e.g.,
 - functions (e.g. issuance, retirement, holding, cancelation of credits)
 - account type (e.g. holding account, government holding account, cancellation account, and retirement account)
- Account holders can access both general information and their own accounts while general users can only access general information.

access

Registry

manager

Japanese registry

credit issuance

by the JC

based on notification

Government account

Private accounts

- rules of serial number of the credit
- information sharing
- Japan has established its registry and started operation in Nov. 2015.
- •The partner countries will also establish their own registry.

JCM Website

URL: https://www.jcm.go.jp/

Contents

- General information page
- •Individual JCM Partner countries-Japan page

Function

- Information sharing to the public, e.g.,
- the JC decisions,
- rules and guidelines,
- methodologies,
- projects,
- call for public inputs/comments,
- status of TPEs, etc.
- •Internal information sharing for the JC members, e.g.,
- File sharing for electric decisions by the JC

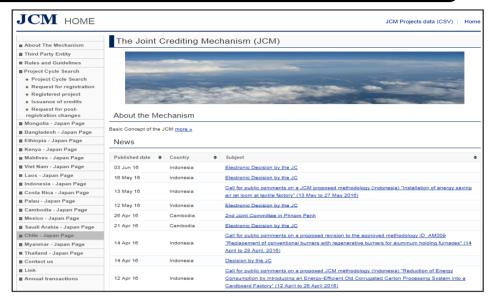


Image of the general information page



Image of the individual JCM Partner countries-Japan page

Progress of the JCM in each partner country as of Aug 2 2019

Partner countries	Start from	No. of JC	No. of registered projects	No. of approved methodologies	Pipeline (JCM Financing Programme & Demonstration Projects in FY 2013-2019)
Mongolia	Jan 2013	6	5	3	10
Bangladesh	Mar 2013	4	3	3	6
Ethiopia	May 2013	3		3	
Kenya	Jun 2013	3		3	3
Maldives	Jun 2013	4	1	1	2
Viet Nam	Jul 2013	8	14	15	26
Lao PDR	Aug 2013	4	1	3	5
Indonesia	Aug 2013	8	17	19	34
Costa Rica	Dec 2013	2		3	2
Palau	Apr 2014	5	3	1	5
Cambodia	Apr 2014	4	1	2	5
Mexico	Jul 2014	2		1	7
Saudi Arabia	May 2015	2	1	1	1
Chile	May 2015	2		1	2
Myanmar	Sep 2015	2		1	7
Thailand	Nov 2015	4	6	9	32
Philippines	Jan 2017	1			11
Total	17	64	52	69	158 16

Programmes by Government of Japan

- ◆JCM Demonstration Projects and JCM Financing Programme
- Feasibility Studies
- Capacity Building

JCM Promotion Scheme by METI

JCM Demonstration Projects

- ■JCM Demonstration Projects are implemented by NEDO (New Energy and Industrial Technology Development Organization), which demonstrate and verify the effectiveness of advanced low carbon technology with technical assistance and its GHG emission reduction effect in line with JCM rules and guidelines.
- Coverage of project cost: Cost of the Demonstration and verification of the projects

 e.g. Cost of design, production, transfer, installation of equipment, technical adviser, JCM related procedure etc.
- Eligibility for the JCM Demonstration Projects:
- To utilize the advanced Japanese technologies utmost and be deployed widely.
- To aim at Larger GHG emission reduction effect is expected through the diffusion of the technology introduced and demonstrated through the projects,
- To consist the Project Participants of entities from both countries, only the Japanese entities can apply for the Projects. The projects shall be completed within 3 years.

JCM Feasibility Study (FS)

■ The study is to develop the strategic projects which contributes to achieve the GHG emission reduction at the global level through the optimization of the advanced low carbon technology and activate the low carbon business in line with JCM.

MRV Application Study

■ By applying MRV methodology to the facility with low-carbon technologies that have already been installed or will certainly be installed in any JCM partner country; 1) to obtain verification by third party entity under the JCM; and 2) to conduct review and feedback on efficiency and applicability of MRV.

Capacity Building Programmes

■ Dispatching technical experts to and inviting officials from host countries in order to solve the problems they face to disseminate low carbon technology, etc.

Demonstration Projects by METI* (as of August 2019)

* Including NEDO and UNIDO

Mongolia:

 ★High efficiency and low loss power transmission and distribution system (Hitachi)
 ※FY2013 – Feb 2019

Kenya:

 Rural Electrification Project for Communities by Micro Hydro Power in Kenya (NTT Data Institute of Management consulting, Inc.)

※FY2012 - Feb 2019

Ximplemented by UNIDO

Thailand:

 Feasibility Study on IoT utilization promotion project to streamline and advance power generation assets for electric power companies in ASEAN countries (Marubeni)

※FY Feb 2019 -

Total: 11 projects (6 countries)

- Underlined one project in Mongolia, three projects in Vietnam, one project in Lao PDR, three projects in Indonesia were registered as JCM projects.
- Projects with "★" are those which JCM credits have been issued.

Vietnam:

- **Energy saving by inverter air conditioner optimum operation at National Hospital (Mitsubishi Electric) **Jan 2014 Jun 2017
- ★Energy saving by BEMS optimum operation at Hotel (Hibiya Engineering)

 ※Jan 2014 Feb 2018
- ★Energy Saving and Work Efficiency Improvement Project by special LED Equipment with new technology, COB(Stanley Electric)
 ※ Jan 2015 Feb 2018

Lao PDR:

• ★Lao PDR Energy efficient date center(LEED) (Toyota Tsusho Corporation, Internet Initiative Japan)

※FY2014 - Oct 2018

Indonesia:

- Operation Optimization in Utility Facility (Azbil)
- Energy Saving by Optimum Operation at Oil Refinery (Yokogawa)

• The low carbonization of mobile communication's BTS (Base Transceiver Station) by the Introduction of "TRIBRID system" (KDDI)

※FY2015 - Feb 2019

JCM Project Development & Outreach Programme by MOEJ

JCM Project Development

- To identify barriers and needs for JCM project development in partner countries in terms of technology, financing and partnership, and provide solutions for overcoming barriers through consultations.
- To enhance overall capacity for JCM implementation through facilitating understanding on the JCM rules & guidelines, and MRV methodologies by organizing workshops, seminars, training courses and site visits.
- JCM Business Matching Site "JCM Global Match" provides business matching opportunities for sellers and buyers of low and zero carbon technology for the JCM project. https://gec.force.com/JCMGlobalMatch/











Outreach

 Carbon Markets Express website provides information on the latest updates on the JCM and relevant programmes such as JCM promotion schemes by the Government of Japan.

https://www.carbon-markets.go.jp/eng/

•E-mail Newsletter and up-to-date information are distributed regularly. To register, access:

(for JP) https://www.carbon-markets.go.jp/newsletter/ (for EN) https://www.carbon-markets.go.jp/eng/en newsletter/





JCM Model Projects by MOE

Budget for projects starting from FY 2019 is <u>9.9 billion JPY</u> (approx. <u>USD 99 million</u>) in total by FY2021

(1 USD = 100 JPY)

Government of Japan

☆Includes collaboration with projects supported by JICA and other governmental-affiliated financial institute.

Finance part of an investment cost (less than half)



Conduct MRV and expected to deliver at least half of JCM credits issued

International consortiums (which include Japanese entities)







- > Scope of the financing: facilities, equipment, vehicles, etc. which reduce CO₂ from fossil fuel combustion as well as construction cost for installing those facilities, etc.
- ➤ Eligible Projects: starting installation after the adoption of the financing and finishing installation within three years.

ADB Trust Fund: Japan Fund for Joint Crediting Mechanism (JFJCM)

Budget for FY2019

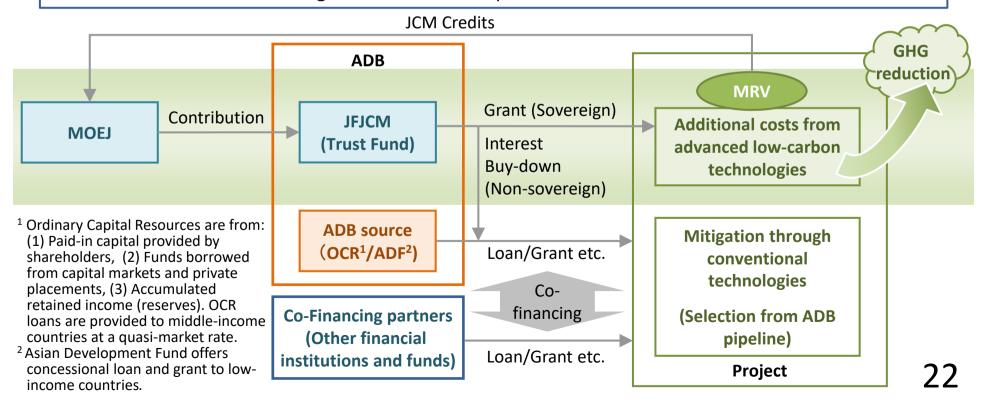
•JPY 1 billion (approx. USD 10 million)

Scheme

To provide the financial incentives for the adoption of advanced low-carbon technologies which are superior in GHG emission reduction but expensive in ADB(Asian Development Bank)-financed projects

Purpose

To develop ADB projects with sustainable and low-carbon transition perspective by introducing advanced low-carbon technologies as well as to acquire JCM credits



JCM F-gas Recovery and Destruction Model Project by MOE

[Budget for FY 2019]
41 million JPY (approx. 0.41
million USD) (1 USD = 100 JPY)

Government of Japan

Finance part of the cost in flat-rate (up to 40 million JPY/year)



Conduct MRV to estimate GHG emission reductions.

At least half or ratio of financial support to project cost (larger ratio will be applied) of JCM credits issued are expected to be delivered to the government of Japan

International consortiums (which include Japanese entities)

Manufacturers of equipment which uses F-gas Users of equipment which uses F-gas

Entities for recovery and transportation of used F-gas (recycling or scrap entities)

Entities for destruction of used F-gas (may use existing facility for destruction)

Purpose

To recover and destroy F-gas (GHG except for energy-related CO2, etc) from used equipment instead of releasing to air, and reduce emissions

Scope of Financing

- Establish scheme for recovery and destruction
- •Install facilities/equipment for recovery/destruction
- Implementation of recovery, transportation, destruction and monitoring

Project Period

Three years in maximum (Ex. 1st year for scheme, 2nd year for facilities, 3rd year for recovery/destruction)

Eligible Projects

- After the adoption of financing, start implementation of recovery/destruction within three years
- Aim for the registration as JCM project and issuance credits

JCM Financing Programme by MOEJ (FY2013~2019) as of Aug 2, 2019

Thailand: 31 projects Senergy Saving at Convenience Store Supgrading Air-saving Loom* Scentrifugal Chiller in Tire Factory Air Conditioning System & Chiller* Oliver Solar PV on Factory Centrifugal Chiller & Comprosite Co-generation in Motorcycle Refrigeration System	Rooftop* ressor* le Factory	○8.3MW Solar PV in ○21MW Solar PV	HOB)** O2.1MW So Farm O15MW So	Renewable Energy Sector
Ochilled Water Supply Syste OLED Lighting to Sales Stores Oco-generation System OLED Lighting to Sales Stores OLED Lig	elt Plant Solar PV in Industrial Park gal Chiller	○ Energy Saving Equ ○ Energy Saving Equ ○ Modal Shift with Re	hs* 1 Hotel* ion Facility* formers 2* uipment in Lens Facto uipment in Wire Produipment in Brewery F efer Container	Amorphous transformers1* Air-conditioning in Lens Factory* 320kW Solar PV in Shopping Mall* Air-conditioning Control System High Efficiency Water Pumps1* ONY* Amorphous transformers 3* Uction Factory* Amorphous transformers 4 actory High Efficiency Chiller reters for Raw Water Intake Pumps of F-gas Waste to Energy Plant hass Boiler to Chemical Factory
Bangladesh:6 projects Centrifugal Chiller 315kW PV-diesel Hybrid System* Centrifugal Chiller* Saudi Arabia:1 project Centrifugal Chiller* Loom at Weaving Factory* 50MW Solar PV Power Plant High Efficiency Transmission Line Kenya:2 projects	Laos:4 projects REDD+ through control OAmorphous transforme	rolling slush-and-bu	Mexico:7 pro 02.4MW Power 0nce-throug 064MW Wind F	
OElectorolyzer in Chlorine Production Plant Myanmar:7 projects 700kW Waste to Energy Plant ○Brewing Systems to Brewery Factory ○Once-through Boiler in Instant Noodle Factory	Phillipines 15MW Hy 1MW Ro	V 011MW Solar PV s:11 projects ydro Power Plant oftop Solar PV Micro Hydro Power Pla	○ 30MW Solar F ○ 4MW Hydro Power Pl ○ 1.2MW Rooftop Sol	ant
1.8MW Rice Husk Power Generation Refrigeration System in Logistics Center 8.8MW Waste Heat Recovery in Cement Plant Brewing Systems and Biogas Boiler to Brewery Factory Cambodia: 5 projects	Palau:5 projec 370kW Solar 155kW Solar	cts PV for Commercial F PV for School*	Facilities*	Costa Rica: 2 projects 5MW Solar PV Chiller and Heat Recovery System Chile: 2 projects
OLED Street Lighting OSolar PV & Centrifugal Chiller ■ Battambang Wastewater Treatment Project OLED Street Lighting OLED Street Light	0.4MW Solar PV	PV for Commercial F V for Supermarket for Supermarket	-actities 11 **	○ 1MW Rooftop Solar PV ○ 2MW Solar PV and 4MWh Storage Battery
Maldives: 2 projects 186kW Solar Power on School Rooftop* ■ Smart Micro-Grid System Model Project in FY 2013 (7 projects in 3 countries) Model Project in FY 2014 (12 projects in 5 countries) ADB Project in FY 2014 (1 project in 1 country) Model Project in FY 2015 (31 projects in 9 countries) Model Project in FY 2016 (35 projects in 9 countries) REDD+ Model Project (2 projects in 2 countries) Model Project in FY 2017 (19 projects in 7 countries) ADB Project in FY 2017 (1 project in 1 country) Model Project in FY2018 (24 projects in 11 countries)	Indonesia:31 projects	n Industry** tile Factory 2* id System tile Factory 3* .com* g System m* aring Sport City* eatment System	Regenerative Burner Old Corrugated Carto Centrifugal Chiller in Once-through Boiler Once-through Boiler REDD+ through cont Common in Weaving M O.5MW Solar PV*	Heat Pump* ecovery in Cement Industry* Sons Process* Shopping Mall* System in Film Factory in Golf Ball Factory trolling slush-and burn ill OLED Lighting to Sales Stores Gas Co-generation system
■ ADB Project in FY 2018 (2 projects in 11 country) ▲ F-gas Project in FY 2018 (2 projects in 2 country) O Model Project in FY 2019 (11 projects in 5 countries) Other 1 project in Malaysia	OAbsorption Chiller OHigh Efficiency Autoclave O12MW Biomass Power Plant		10MW Hydro Power Pl	ant ublic Bus ORehabilitation of Hydro Power Plant

FY2019 Cities joining the city to city collaboration program by MOEJ

1. Ho Chi Minh City (Vietnam) - Osaka City City-to-City Collaboration Project between Ho Chi Minh City and Osaka City 2. Bali City (Indonesia) - Toyama City Support on Tourism Future City of Bali Province through City-to-City Collaboration 3. <u>Hlegu township, Yangon (Myanmar) – Kitakyushu City</u> Low carbonization in smart city development project in Yangon Region 4. <u>Iskandar Development Area(Malaysia) – Kitakyushu City</u> Promotion of Low Carbon Society in Iskandar Regional Area 5. Bangkok and Laem Chabang (Thailand) - Yokohama City ports in Thailand to reduce GHG emission by advancing modal shift and enhancing terminal efficiency 6. Yangon city (Myanmar) - Kawasaki City Support on Low Carbon Mega Food Park through City-to-City Collaboration 7. Can Tho city (Vietnam) - Hiroshima pref. government Biomass power generation project using milled rice husks for compressed solid fuel 8. Sagaing Region (Myanmar) - Fukushima City Promotion project of low-carbon regional development in Sagaing Region 9. Rokan Hulu Regency (Indonesia) - Kawasaki City Project to Promote Circular Economy for Palm Industry in Riau Province Region 10. Kuala Lumpur City (Malaysia) - Tokyo Metropolitan Government Project developing a policy framework for building energy efficiency through city to city collaboration between Kuala Lumpur Government and Tokyo Metropolitan Government

Reference: Technical Details for the JCM

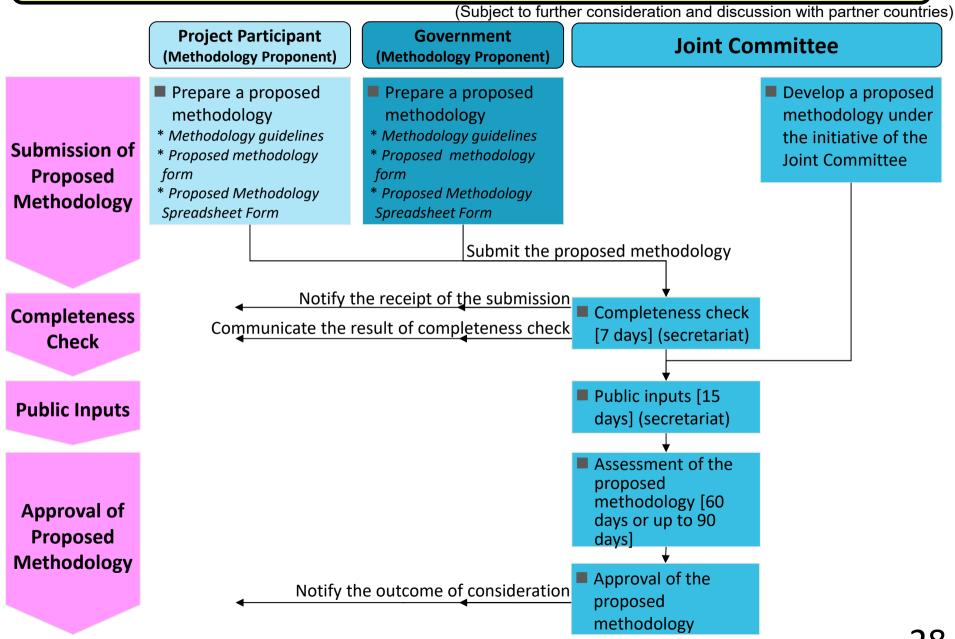
(Subject to further consideration and discussion with partner countries)

Necessary documents for the JCM

(Subject to further consideration and discussion with partner countries)

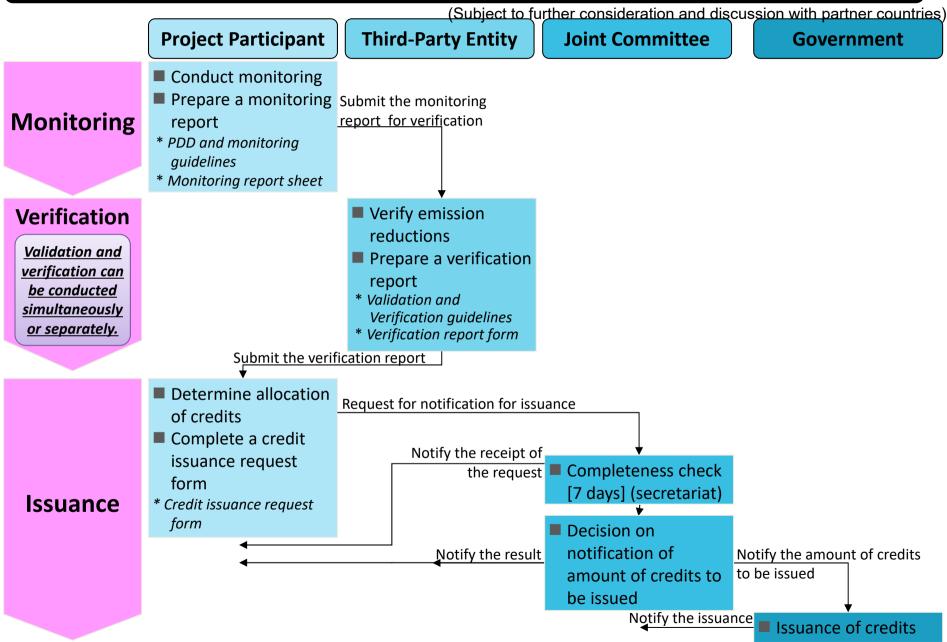
			Rules and Guidelines			
		√	Rules of Implementation			
		✓	Project Cycle Procedure			
Overall			Glossary of Terms			
			Guidelines for Designation as a Third-Party			
			Entity (TPE guidelines)			
laint Camanaitta			Rules of Procedures for the Joint			
Joint Committe	ee		Committee (JC rules)			
			Guidelines for Developing Proposed			
Methodology			Methodology (methodology guidelines)			
	Developing		Guidelines for Developing Project Design			
	a PDD		Document and Monitoring Report (PDD			
Project Procedures	Monitoring		and monitoring guidelines)			
litoccaaics	Validation	√	Guidelines for Validation and Verification			
	Verification		(VV guidelines)			

Methodology Development Procedure of the JCM



Registration & Issuance Procedure of the JCM (1/2) (Subject to further consideration and discussion with partner countries) **Project Participant Third-Party Entity Joint Committee** Government Complete a PDD and develop a monitoring plan Submit the draft PDD and MoC, and request for validation * PDD form and Monitoring **Development** and public inputs Spreadsheet * PDD and monitoring of PDD quidelines Complete an MoC Form * MoC Form Notify the receipt of the submission Public inputs[30 days] **Validation** ■ Validate a project (secretariat) Prepare a validation Validation and verification can report be conducted * Validation and verification simultaneously quidelines or separately. * Validation report form Submit the validation report Complete a Submit registration request form, the validated PDD and MoC, and the validation report and request for registration registration request form * Registration request form Registration Notify the receipt of the request ■ Completeness check [7 days] (secretariat) Notify the conclusion Notify the registration ■ Registration Notify the registration of

Registration & Issuance Procedure of the JCM (2/2)



Rules of Procedures for the Joint Committee

(Subject to further consideration and discussion with partner countries)

Members

- > The Joint Committee (JC) consists of representatives from both Governments.
- Each Government designates members, which may not exceed [10].
- The JC has two Co-chairs to be appointed by each Government (one from the partner country and the other from Japan). Each Co-Chair can designate an alternate from members of the JC.

Decision making in the JC

- > The JC meets no less than once a year and decision by the JC is adopted by consensus.
- > The JC may adopt decisions by electronic means in the following procedure:
 - (a) The proposed decisions are distributed by the Co-Chairs to all members of the JC.
 - (b) The proposed decision is deemed as adopted when,
 - i) no member of the JC has provided negative assertion within [10] calendar days after distribution and both Co-Chairs have made affirmative assertion, or
 - ii) all members of the JC have made affirmative assertion.
- ➤ If a negative assertion is made by one of the JC members, the Co-Chairs take into account the opinion of the member and take appropriate actions.
- > The JC may hold conference calls to assist making decisions by electronic means.

External assistance

> The JC may establish panels and appoint external experts to assist part of its work.

Languages: English Secretariat: The secretariat services the JC.

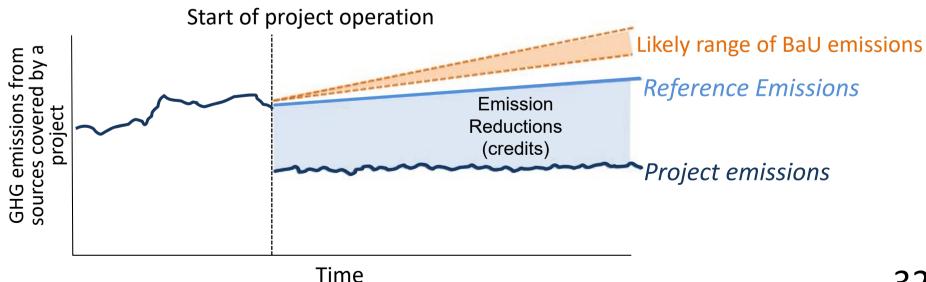
Confidentiality: Members of the JC, Secretariat, etc. respect confidentiality.

Record of the meeting: The full text of all decisions of the JC is made publicly available.

Basic Concept for Crediting under the JCM

(Subject to further consideration and discussion with partner countries)

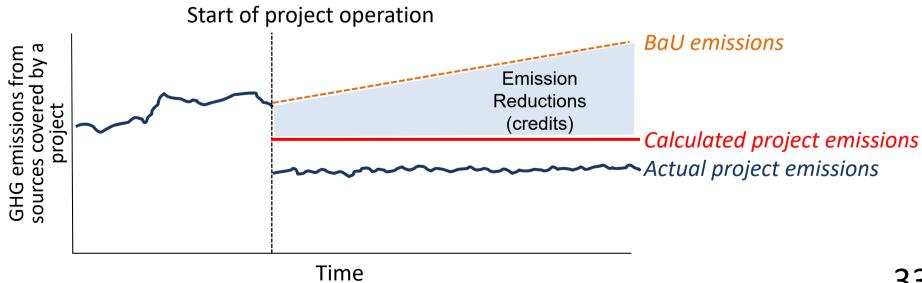
- In the JCM, emission reductions to be credited are defined as the difference between "reference emissions" and project emissions.
- The reference emissions are calculated below business-as-usual (BaU) emissions which represent plausible emissions in providing the same outputs or service level of the proposed JCM project in the partner country.
- This approach will ensure a net decrease and/or avoidance of GHG emissions.



Addendum: ways to realize net reduction

(Subject to further consideration and discussion with partner countries)

- A net decrease and/or avoidance of GHG emissions can be realized in alternative way, instead of calculating the reference emissions below BaU emissions.
- <u>Using conservative default values in parameters to calculate project</u> emissions instead of measuring actual values will lead calculated project emissions larger than actual project emissions.
- This approach will also ensure a net decrease and/or avoidance of GHG emissions, as well as reduce burdens of monitoring.



33

JCM Methodology

- Key Features of the JCM methodology
 - The JCM methodologies are designed in such a way that project participants can use them easily and verifiers can verify the data easily.
 - In order to reduce monitoring burden, default values are widely used in a conservative manner.
 - Eligibility criteria clearly defined in the methodology can reduce the risks of rejection of the projects proposed by project participants.

Eligibility criteria	 A "check list" will allow easy determination of eligibility of a proposed project under the JCM and applicability of JCM methodologies to the project.
Data (parameter)	 List of parameters will allow project participants to determine what data is necessary to calculate GHG emission reductions/removals with JCM methodologies. Default values for specific country and sector are provided beforehand.
Calculation	Premade spreadsheets will allow GHG emission reductions/removals to be calculated automatically by inputting relevant values for parameters, in accordance with methodologies.

Basic concept of Eligibility criteria in JCM methodology

(Subject to further consideration and discussion with partner countries

Eligibility criteria in JCM methodologies contain the following:

- ✓ The requirements for the project to be registered as a JCM project. <Basis for the assessment of validation and registration of a proposed project>
- ✓ The requirements for the project to be able to apply the JCM methodology. <same as "applicability condition of the methodology" under the CDM>



- 1. <u>Both Governments determine what technologies, products, etc should be included in the eligibility criteria</u> through the approval process of the JCM methodologies by the Joint Committee.
- 2. <u>Project participants can use</u> the list of approved JCM methodologies when applying for the JCM project registration.

Examples of eligibility criteria 1.

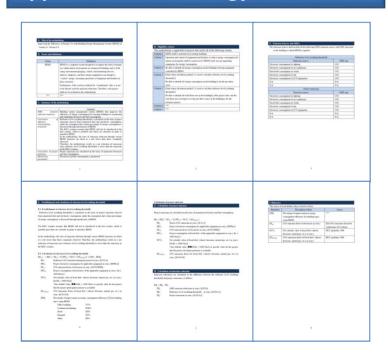
- ➤ Introduction of <u>xx</u> (products/technologies) whose design efficiency is above <u>xx</u> (e.g. output/kWh) < Benchmark Approach>
- Introduction of <u>xx</u> (specific high efficient products/technologies, such as air conditioner with inverter, electric vehicles, or PV combined with battery) <*Positive List Approach*> Examples of eligibility criteria 2.
 - Existence of historical data for <u>x</u> year(s)
 - > Electricity generation by xx (e.g. PV, wind turbine) connected to the grid
 - ➤ Retrofit of the existing boiler

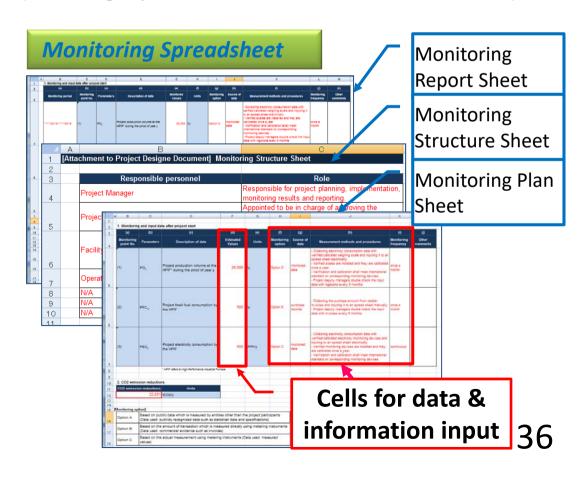
Overview of JCM Methodology, Monitoring Plan and Monitoring Report

- (Subject to further consideration and discussion with partner countries)

 JCM methodology consists of the followings.
 - ➤ Approved Methodology Document
 - ➤ Monitoring Spreadsheet
 - Monitoring Plan Sheet (including Input Sheet & Calculation Process Sheet)
 - ➤ Monitoring Structure Sheet
 - Monitoring Report Sheet (including Input Sheet & Calculation Process Sheet)

Approved Methodology Document

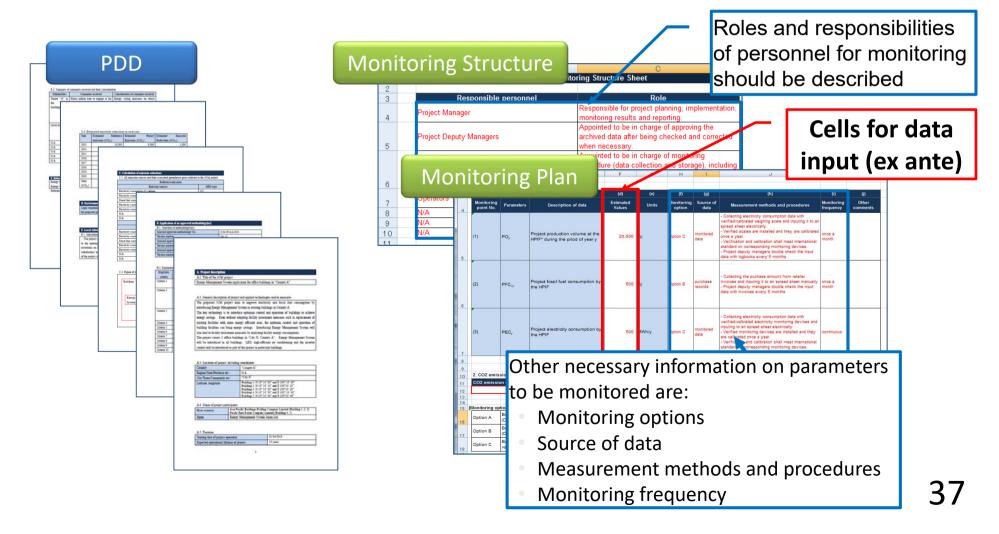




PDD and Monitoring Plan

(Subject to further consideration and discussion with partner countries)

- Developing a Project Design Document (PDD) and a Monitoring Plan
 - >A PDD form should be filled in with information of the proposed project.
 - A Monitoring Plan consists of Monitoring Plan Sheet and Monitoring Structure Sheet, and it should be filled in as well.



Possible Contents of the JCM PDD

A. Project description

(Subject to further consideration and discussion with partner countries)

- A.1. Title of the JCM project
- A.2. General description of project and applied technologies and/or measures
- A.3. Location of project, including coordinates
- A.4. Name of project participants
- A.5. Duration
- A.6. Contribution from developed countries

B. Application of an approved JCM methodology(ies)

- B.1. Selection of JCM methodology(ies)
- B.2. Explanation of how the project meets eligibility criteria of the approved methodology

C. Calculation of emission reductions

- C.1. All emission sources and their associated greenhouse gases relevant to the JCM project
- C.2. Figure of all emission sources and monitoring points relevant to the JCM project
- C.3. Estimated emissions reductions in each year

D. Environmental impact assessment

E. Local Stakeholder consultation

- E.1. Solicitation of comments from local stakeholders
- E.2. Summary of comments received and their consideration

F. References

Annex

Approved Methodology Spreadsheet consists of Monitoring Plan Sheet, Monitoring Structure Sheet and Monitoring Report Sheet, and it shall be attached to the PDD. 38

Monitoring Report

(Subject to further consideration and discussion with partner countries)

- Making a Monitoring Report
 - A Monitoring Report should be made by filling cells for data input (ex post) in the Monitoring Report Sheet with monitored values.

➤ Project participants prepare supporting documents which include evidence for stated values in the cells for data input.

