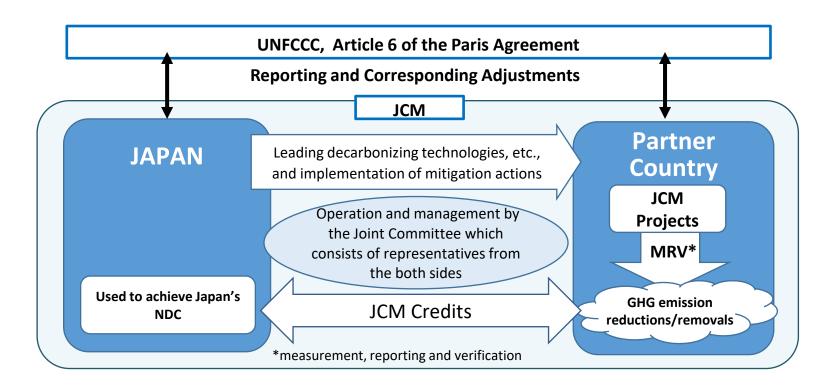
# Recent Developments of The Joint Crediting Mechanism (JCM)

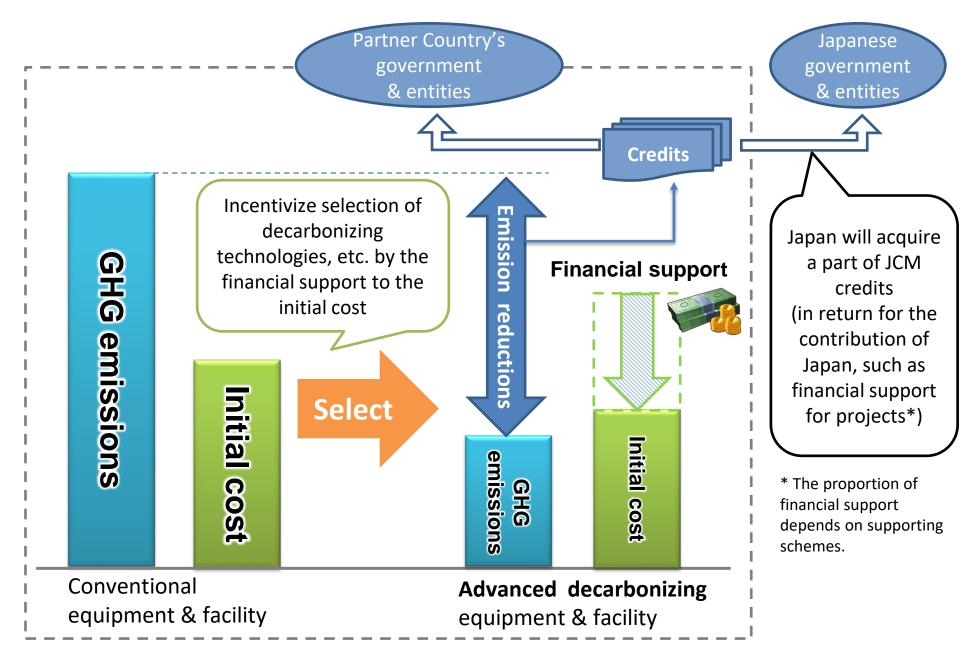
October 2022 Government of Japan

# Basic Concept of the JCM

- Facilitate diffusion of leading decarbonizing technologies and infrastructure, etc., through investment by Japanese entities, thereby contributing to GHG emission reductions or removals and sustainable development in partner countries.
- Contribute to the achievement of both countries' NDCs while ensuring the avoidance of double counting through corresponding adjustments.
- Implement the JCM consistent with the guidance on cooperative approaches, referred to in Article 6, paragraph 2 of the Paris Agreement.



# Contribution from Japan (example)



# JCM Partner Countries (24 countries)



Mongolia Jan. 8, 2013 (Ulaanbaatar)



Bangladesh Mar. 19, 2013 (Dhaka)



Ethiopia May. 27, 2013 (Addis Ababa)



<u>Kenya</u> Jun. 12, 2013 (Nairobi)



Maldives
Jun. 29, 2013
(Okinawa)



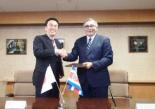
Viet Nam
Jul. 2, 2013
(Hanoi)
\*The photo at the time of extension in Oct 2021.



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)



<u>Thailand</u> Nov. 19, 2015 (Tokyo)



Philippines Jan. 12, 2017 (Manila)



<u>Senegal</u> Aug. 25, 2022 (Dakar)



Tunisia Aug. 26, 2022 (Tunis)



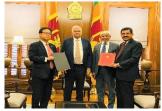
<u>Azerbaijan</u> Sept. 5, 2022 (Baku)



Moldova Sept. 6, 2022 (Chisinau)



Georgia Sept. 13, 2022 (Tbilisi)



<u>Sri Lanka</u> Oct. 10, 2022 (Colombo)



Uzbekistan Oct. 25, 2022 (Tashkent)

# Projects supported by the JCM financing programmes

#### Renewable Energy



Solar power, FARMLAND Co., Ltd., Chile



Floating Solar PV,TSB Co., Ltd.,Thailand



Hydro Power Plant, Toyo Energy Farm Co., Ltd., Indonesia



Biomass Co-Generation System, Fuji-Foods Coporation, Thailand



Binary Power Generation Project at Geothermal Power Plant, MHI, Ltd., Philippines

#### Energy efficiency [Consumer sector]



High-efficiency refrigerator, Mayekawa MFG. Indonesia



Energy saving at convenience stores, Panasonic, Indonesia



High-efficiency airconditioning system, Hitachi, Daikin, Vietnam

## Energy efficiency [Industrial sector]





#### Energy efficiency [Urban sector]



LED street lighting system with wireless network control, MinebeaMitsumi, Cambodia

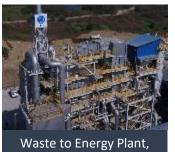


Amorphous transformers in power distribution, Hitachi Materials, Vietnam

#### Waste



Power Generation with Methane Gas Recovery System, NTTDATA, Mexico



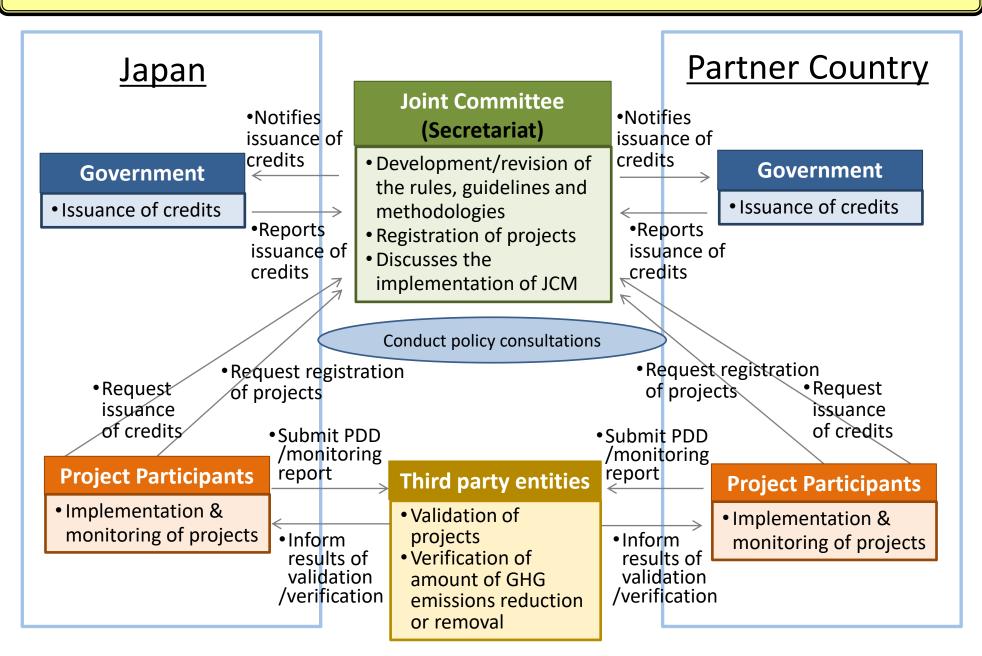
JFE engineering, Myanmar

## Transport



CNG-Diesel Hybrid Public Bus, Hokusan Co., Ltd., Indonesia

## 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 and the percentage of JCM credit allocation.
- > Each Government establishes and maintains a registry.
- ➤ On the basis of notification for issuance of JCM credits by the JC, each Government issues the notified amount of JCM credits to its registry.

# Project Cycle of the JCM and the CDM

**JCM** CDM <Main actors at each process> **Submission of** Project Participant / Each Government **Proposed Project Participant** Joint Committee Methodology **Approval of** Joint Committee **Proposed** CDM Executive Board Methodology by the same TPE simultaneously **Development Project Participant** Project Participant of PDD\* **Designated Operational Entities** Third Party Entities **Validation** (DOEs) Registration Joint Committee CDM Executive Board conducted 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 of credits

# Japan's Nationally Determined Contribution (NDC)

## Japan's NDC

(Decided on October 22, 2021)

<u>Japan aims to reduce its greenhouse gas emissions by 46 percent in fiscal year 2030 from its fiscal year 2013 levels,</u> setting an ambitious target which is aligned with the long-term goal of achieving net-zero by 2050. Furthermore, Japan will continue strenuous efforts in its challenge to meet the lofty goal of cutting its emission by 50 percent.

## **Description about the JCM**

## **Japan's Greenhouse Gas Emission Reduction Target**

Japan aims to contribute to <u>international emission reductions and removals at the level of a cumulative</u>
 <u>total of approximately 100 million t-CO2 by fiscal year 2030</u> through public-private collaborations.
 Japan will appropriately count the acquired credits to achieve its NDC.

## Information to facilitate clarity, transparency and understanding

- Japan will establish and implement the Joint Crediting Mechanism (JCM) in order to quantitatively evaluate contributions of Japan to greenhouse gas emission reductions and removals which are achieved through the diffusion of, among others, leading decarbonizing technologies, products, systems, services and infrastructures as well as through the implementation of measures in developing countries and others, and in order to use such contributions to achieve Japan's NDC. By doing so, through public-private collaborations, Japan aims to secure accumulated emission reductions and removals at the level of approximately 100 million t-CO2 by fiscal year 2030. Japan will appropriately count the acquired credits to achieve its NDC.
- With regards to the JCM which Japan has initiated to establish, Japan secures environmental integrity and the avoidance of double-counting in line with the international rules including the Paris Agreement. Also, based on its experience in the JCM, Japan intends to lead international discussions, thereby contributing to the development of appropriate international rules for the use of market mechanism.

## Position of the JCM in the Plan for Global Warming Countermeasures

\*Cabinet Decision, October 2021

## **Description about the JCM**

• Japan will establish and implement the Joint Crediting Mechanism (JCM) in order to quantitatively evaluate contributions of Japan to greenhouse gas emission reductions and removals which are achieved through the diffusion of, among others, leading decarbonizing technologies, products, systems, services and infrastructures as well as through the implementation of measures in developing countries and others, and in order to use such contributions to achieve Japan's NDC. By doing so, through public-private collaborations. Japan aims to secure accumulated emission reductions and removals at the level of approximately 100 million t-CO2 by fiscal year 2030. Japan will appropriately count the acquired credits to achieve its 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 emissions reductions realized overseas towards national emissions reduction targets.
- The amount of emissions reduction and removal acquired by Japan under the JCM will be appropriately counted as Japan's reduction in accordance with the Paris Agreement.
- > At COP26 in Glasgow last November, the rules for Article 6 of the Paris Agreement were adopted.

# Implementation of the Article 6 rules into domestic rules

# Establishment of the JCM Promotion and Utilization Council consisting of five relevant Ministries\* (January 17,2022)

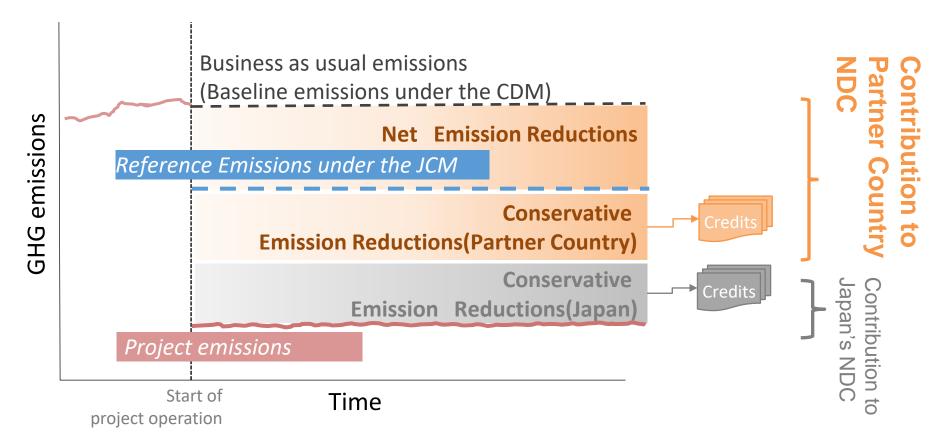
\*Ministry of the Environment; Ministry of Economy, Trade and Industry; Ministry of Foreign Affairs; Ministry of Agriculture, Forestry and Fisheries and Ministry of Land, Infrastructure, Transport and Tourism

#### The Council's duties include:

- 1. the authorization of JCM credits as a Party to the Paris Agreement,
- 2. the determination of a method to apply corresponding adjustments to prevent double counting,
- 3. the revision of the Guidelines for the Implementation of the JCM.
- ➤ Formulation of the procedures on the authorization and corresponding adjustments (April 7, 2022)
  - Establishment "Procedures for Authorization as a Party to the Paris Agreement regarding the Joint Crediting Mechanism (JCM)" and "Procedures for Corresponding Adjustments regarding the Joint Crediting Mechanism."
- Expansion of JCM Partner Countries (June 7, 2022)
  - The Grand-design and Implementation Plan/Follow-ups of the New Capitalism (Cabinet Decision on June 7, 2022) stipulates "For the expansion the JCM, the government accelerates consultations with relevant countries, aiming to increase the JCM partner countries up to around 30 by 2025."

## 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.



## JCM Website

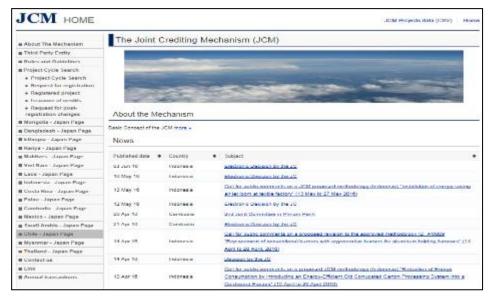
## URL: <a href="https://www.jcm.go.jp/">https://www.jcm.go.jp/</a>

## 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 and projects
- issuance of JCM credits
- 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

# Japan's support for the JCM partner countries

# Overview of Japan's support for the JCM partner countries

Ministry	Programme	Type of support	Note
Ministry of the Environment	JCM Model Project*	Subsidy	See slide 17
	F-gas Recovery and Destruction Model Project*	Subsidy	See slide 18
	Japan Fund for the JCM (JF JCM) - managed by ADB	Grant (Sovereign) / Interest Buy-down (Non- sovereign)	See slide 19
	JCM support programme by UNIDO*	Grant for projects, technical cooperation	New programme from FY2022 See slide 20
	Project development/capacity building/MRV support	Technical cooperation	See slide 22
Ministry of Economy, Trade and Industry	JCM Feasibility Study	Technical cooperation	See slide 23
	JCM Demonstration Projects	Government- commissioned project	See slide 23
Forestry Agency	Field studies for JCM REDD+	Government- commissioned project	

<sup>\*</sup> These programmes can support projects implemented by government-owned companies but not those implemented by the government itself.

# JCM Model Projects by MOEJ

Budget for projects starting from FY 2022 is approx. <u>17.1 billion JPY</u> (approx. <u>USD 158 million</u>) in total by FY2024 (1 USD = 108 JPY)

Finance part of an investment cost (up to half)

Government of Japan



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

Conduct MRV and expected to deliver JCM credits issued

International consortiums (which include Japanese entities)







- > Scope of the financing: facilities, equipment, vehicles, etc. which reduce CO<sub>2</sub> from fossil fuel combustion as well as construction cost for installing those facilities, etc.
- ➤ Eligible Projects: starting installation after financing is awarded and finishing installation within three years.

## JCM F-gas Recovery and Destruction Model Project by MOEJ

[Budget for FY 2022]
60 million JPY (approx.
0.56million USD) (1 USD = 108 JPY)

Government of Japan

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

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



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

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

#### **Budget for FY2022**

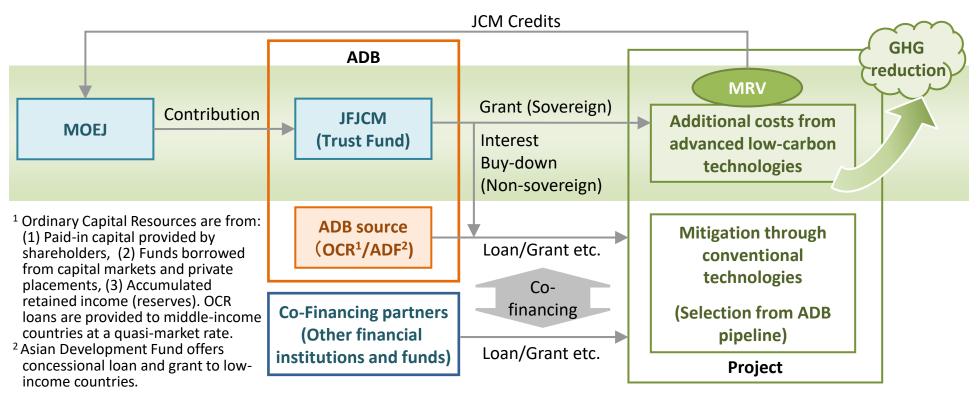
JPY 1 billion (approx. USD 9.3 million)

#### 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

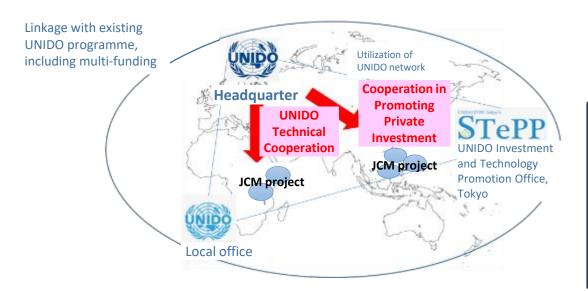
#### **Purpose**

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



# Collaboration with UNIDO by the JCM

- Signed **Joint Declaration** on Environmental Cooperation in order to support the JCM.(Nov.10.2020)
- The UNIDO-MOEJ Project to support JCM related activities, including financial support for deploying the decarbonizing technologies in Africa and Asia.
  - ➤ UNIDO Technical Cooperation
  - Cooperation in Promoting Private Investment





Aiming to facilitate close cooperation between UNIDO and MOEJ on

- climate change
- the circular economy
- fluorocarbon life cycle management
- the reduction of industrial pollution
- the elimination and reduction of persistent organic pollutants
- life cycle management of mercury

#### Comprehensive Set of Assistances from Upper Stream to Lower Stream





Assistance for Planning and Legal System



Assistance for Project Formation



Assistance for Project Finance

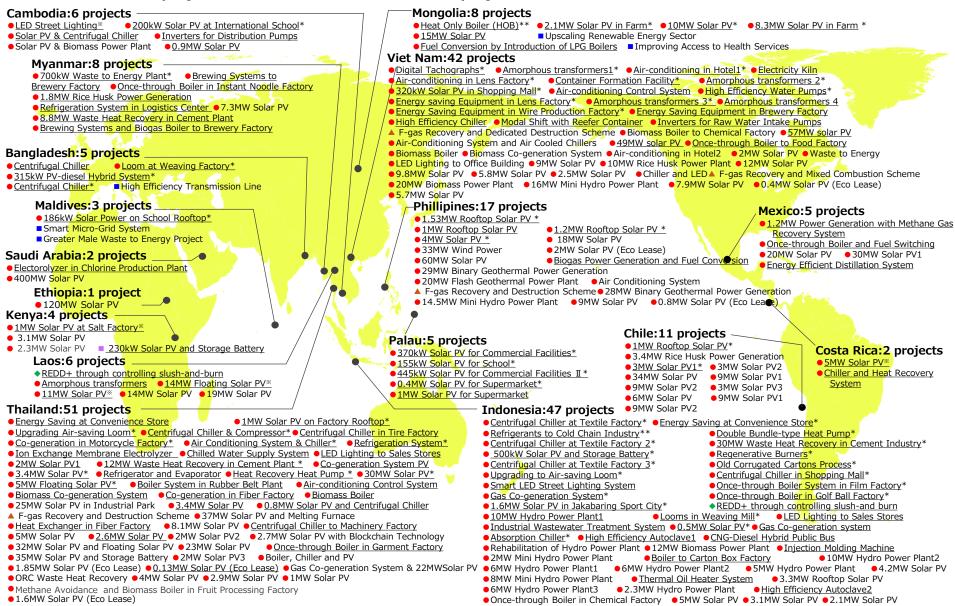
## JCM Financing Programme by MOEJ (FY2013~2022) as of October, 2022

#### Total 223projects (24 partner countries)

(●Model Project: 211 projects(including Eco Lease: 5projects), ■ADB: 5 projects, ■UNIDO: 1 project, ◆ REDD+: 2 projects, ▲F-gas: 4 projects) Other 1 project in Malaysia

129underlined projects have been started operation.

68 projects with \* have been registered as JCM projects.



# Project development & outreach activities 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/s/









#### **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.

http://carbon-markets.env.go.jp/eng/index.html

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

(for JP) <a href="http://carbon-markets.env.go.jp/newsletter/index.html">http://carbon-markets.env.go.jp/newsletter/index.html</a>
(for EN) <a href="http://carbon-markets.env.go.jp/eng/en\_newsletter/index.html">http://carbon-markets.env.go.jp/eng/en\_newsletter/index.html</a>





## METI's support for the JCM partner countries

- METI supports the introduction of <u>advanced decarbonizing technologies</u> <u>though Demonstration Projects</u> which contribute to the decarbonization of the JCM partner countries.
- The project cost burdened by Japanese side is <u>100% supported by Japanese</u> government (METI/NEDO).

Examples of past projects

Optimization in petroleum refining plant, Yokogawa Electric Corp. Indonesia



Total: 11 projects in 6 countries (As of July 2022)

JCM Feasibility Study by METI



#### Scope:

- Consider basic elements of the demonstration (technology, project site, stakeholders, etc.)
- Establish the basis of JCM methodology for quantification of the GHG emission reduction
- Study the possibility of dissemination of the introduced technology

#### **Project period:**

Up to 1 year

Assumed technical areas: Energy efficiency with IoT, EMS, Renewable energy, CCS/CCUS, Hydrogen/Ammonia, etc.

JCM Demonstration Projects by NEDO (\*)

#### Scope:

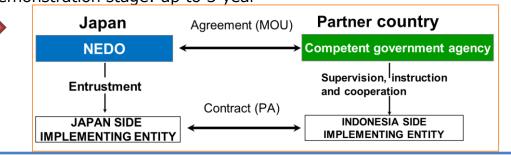


Demonstrate and verify the effectiveness of advanced decarbonizing technology:

- Introduction of relevant facilities and systems, and conduct demonstration
- · Quantification of GHG emission reduction effectiveness
- JCM procedure toward issuance of JCM credits

#### Project period:

Pre-demonstration stage: up to 1 year Demonstration stage: up to 3 year



\* NEDO = New Energy and Industrial Technology Development Organization

## Demonstration Projects by METI\* (as of May 2022)

\* 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**
- ※implemented by UNIDO

#### Thailand:

- IoT utilization promotion project to streamline and advance power generation assets for electric power companies in ASEAN countries (Marubeni)
- **※FY Feb 2019 -**
- Low-carbon Operation for Power Grid utilizing Optimized Performance Enabling Network for Volt/Var(Q) (OPENVQ)
   FY Feb 2020 –
- Total: 11 projects (6 countries)
- Underlined projects, one in Mongolia, three in Vietnam, one in Lao PDR, three in Indonesia, one in Kenya 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)
   FY2013 Feb 2019
- The low carbonization of mobile communication's BTS (Base Transceiver Station) by the Introduction of "TRIBRID system" (KDDI)
- **※FY2015 Feb 2019**

# Reference: Technical Details for the JCM

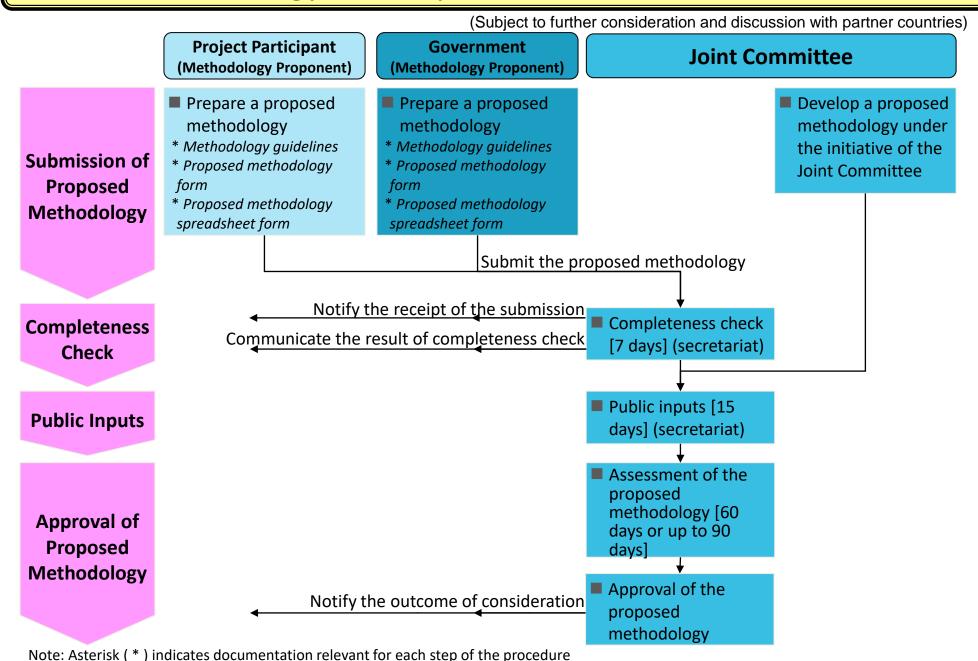
(Subject to further consideration and discussion with partner countries)

# Necessary documents for the JCM

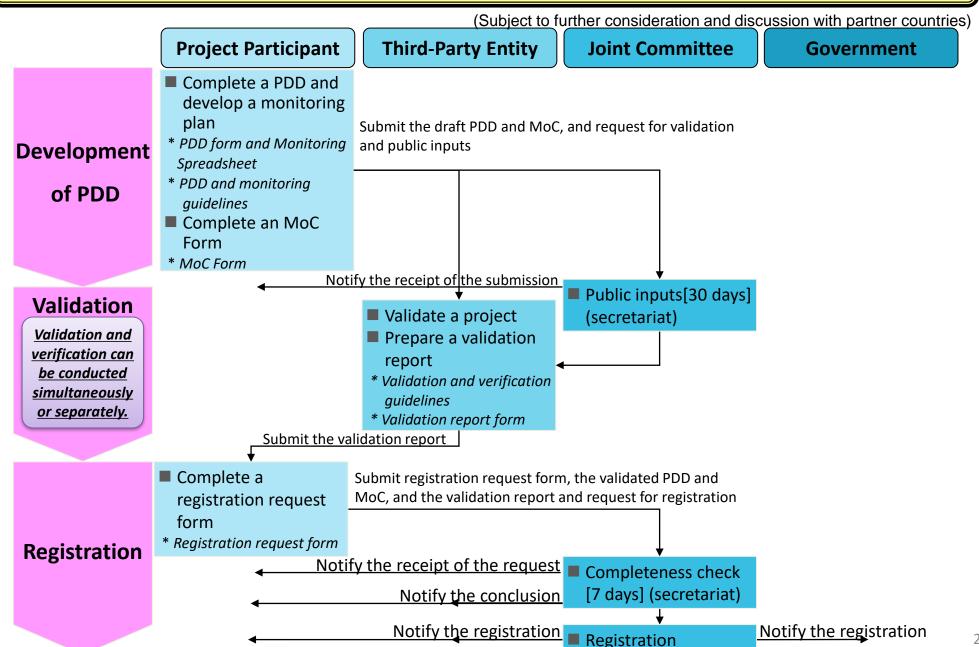
(Subject to further consideration and discussion with partner countries)

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

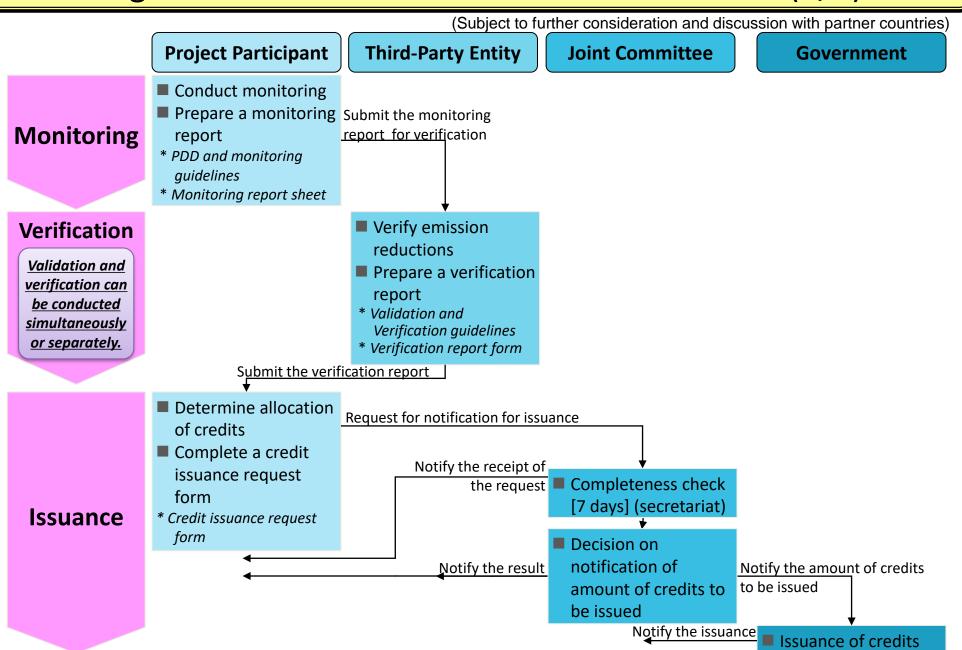
# Methodology Development Procedure of the JCM



# Registration & Issuance Procedure of the JCM (1/2)



# 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 up to 10 members.
- 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 <u>adopt decisions by electronic means</u> 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.

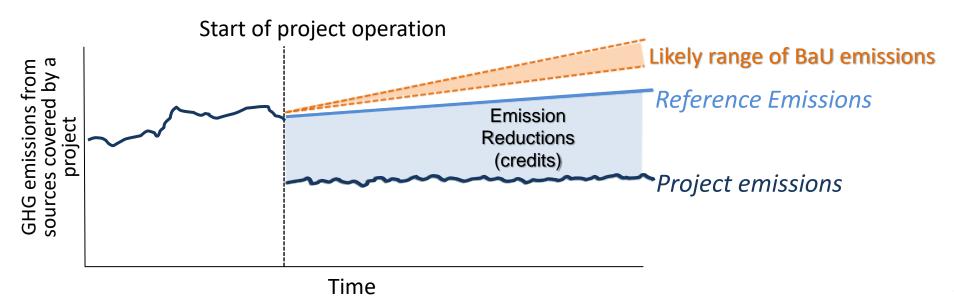
**Confidentiality:** Members of the JC, Secretariat, etc. respect confidentiality.

**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)

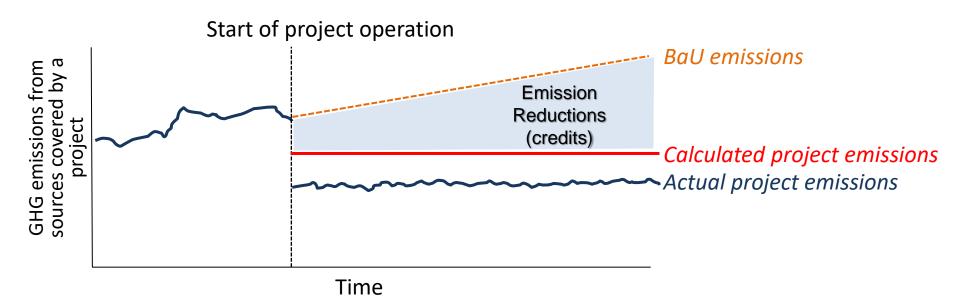
- In the JCM, emission reductions to be credited are defined as the difference between "reference emissions" and project emissions.
- The reference emissions are calculated <u>below business-as-usual</u> (<u>BaU</u>) <u>emissions</u> which represent plausible emissions in providing the same outputs or 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.
- Using conservative default values in parameters to calculate project 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.



# 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	<ul> <li>A "check list" will allow easy determination of eligibility of a proposed project under the JCM and applicability of JCM methodologies to the project.</li> </ul>
Data (parameter)	<ul> <li>List of parameters will allow project participants to determine what data is necessary to calculate GHG emission reductions/removals with JCM methodologies.</li> <li>Default values for specific country and sector are provided beforehand.</li> </ul>
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 efficiency products/technologies, such as air conditioner with inverter, electric vehicles, or PV combined with battery) < *Positive List Approach*>

## Examples of eligibility criteria 2.

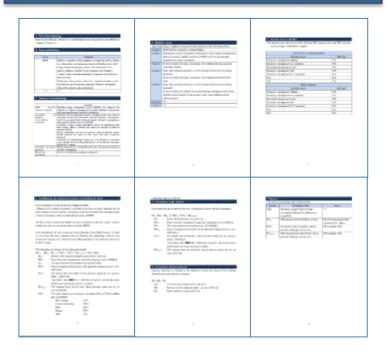
- $\triangleright$  Existence of historical data for  $\underline{x}$  year(s)
- Electricity generation by xx (e.g. PV, wind turbine) connected to the grid
- > Retrofit of the existing boiler

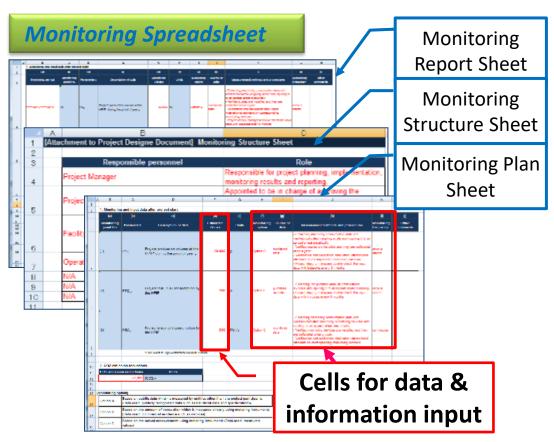
## Overview of JCM Methodology, Monitoring Plan and Monitoring Report

(Subject to further consideration and discussion with partner countries)

- JCM methodology consists of the following:
  - ➤ 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**



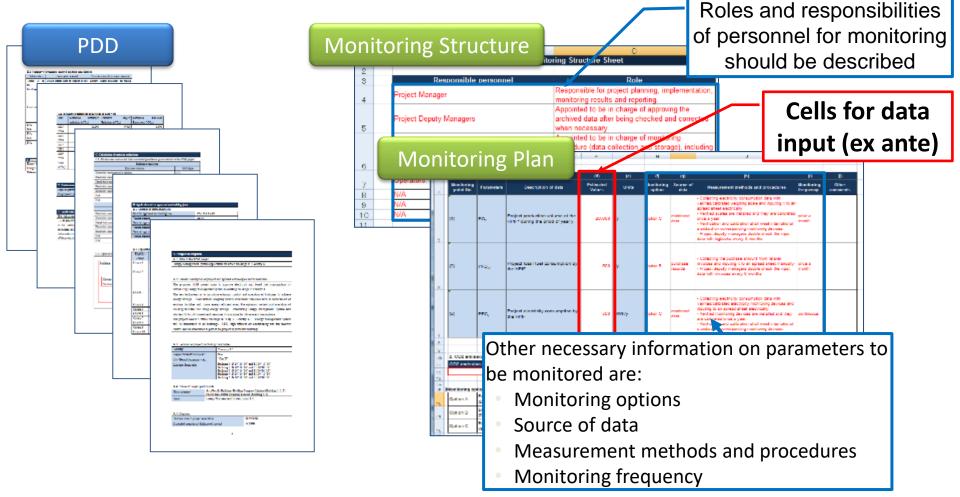


# PDD and Monitoring Plan

(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. Diagram showing 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.

# **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 values stated in the cells for data input.Cells for data

