





Background

• JCM encourages cooperation between Japanese and Indonesian institutions to promote implementation of low carbon development activities in Indonesia • The bilateral agreement has been signed on August 2013 • As per 2025, 30 countries have signed Chile the Memorandum of Cooperation for establishing the JCM

JCM as a frontrunner for 6.2 Cooperative Approach

A6IP Center

Establishment of the Paris Agreement Article 6 Implementation Partnership Center (A6IP) in April 2023 by Japan, managed by The Institute for Global Environmental Strategies (IGES).

The partners include 66 countries and 32 institutions.

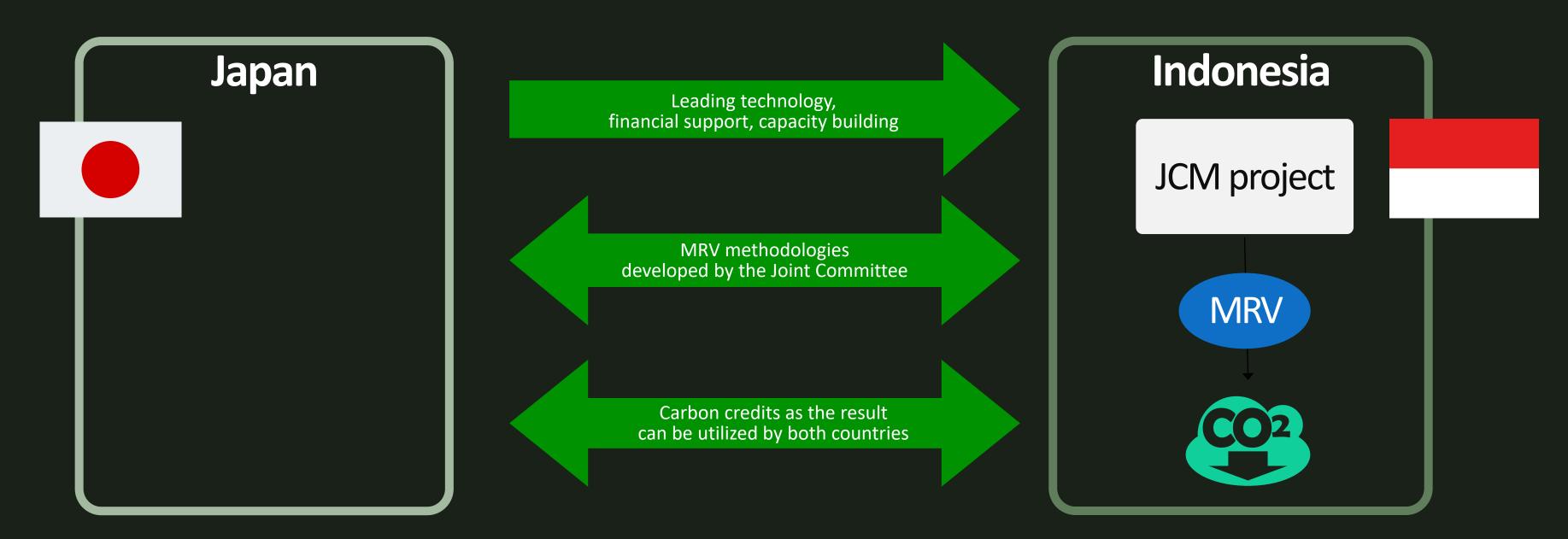
We are now entering the full implementation phase of Article 6.

Activities

- Development of capacity-building tools for authorization, reporting, and tracking
- Development of tailored support packages responding to country needs
- Collection and dissemination of information on capacity-building support



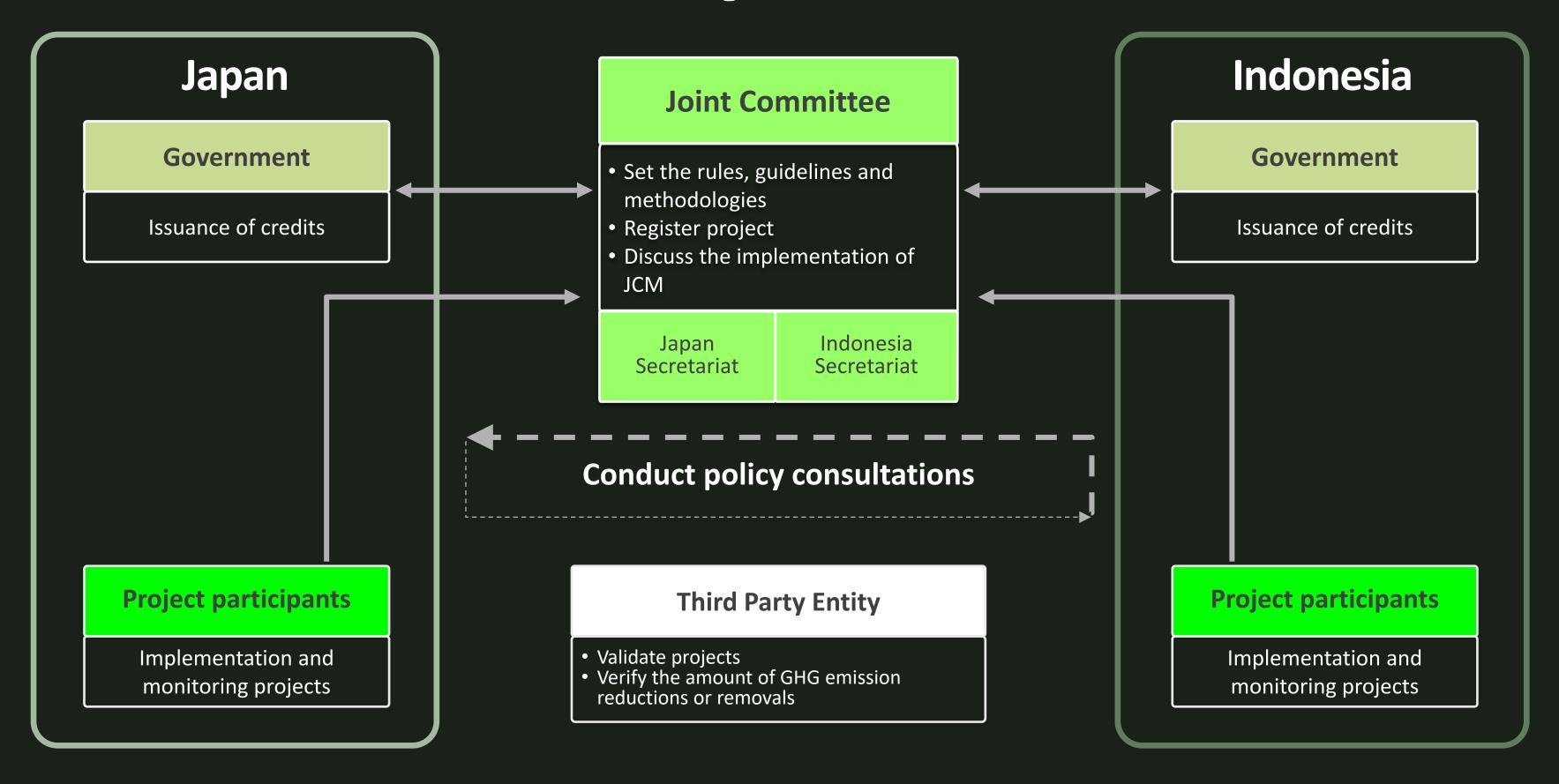
Basic concept



Key objectives of JCM implementation:

- A cooperation between Indonesia and Japan Government to implement low carbon technology since 2013.
 It has met the requirements of article 6.2 cooperation
- Facilitate diffusion of leading low carbon technologies, products, systems, services, and infrastructure
- Implementation of mitigation actions
- Contributing to sustainable development in developing countries.

Structure of cooperation



Joint Committee

Japan

- Mr. Hajime UEDA, Counsellor, Embassy of Japan in Indonesia
- Mr. Hiroki MATSUI, Director, Climate Change Division, International Cooperation Bureau, Ministry of Foreign Affairs
- Mr. Norihiro KIMURA, Senior Negotiator for Climate Change, Global Environmental Affairs Office, Industrial Science and Technology Policy and Environmental Bureau, Ministry of Economy, Trade and Industry
- Mr. Keitaro TSUJI, Director for International Negotiations, Office of Market Mechanisms, Global Environment Bureau, Ministry of the Environment
- Mr. Kiyotaka KOCHI, Director, International Forestry Cooperation Office, Forestry Agency
- Mr. Takayuki SHIGEMATSU, First Secretary/ Environment Attache, Embassy of Japan in Indonesia
- Mr. Yuji MIZUNO, Secretary-General, JCM Implementation Agency (JCMA)

Indonesia

- Mr. Ferry Ardiyanto, Assistant Deputy Minister for Multilateral Economic Cooperation, Coordinating Ministry for Economic Affairs
- Ms. Farah Heliantina, Assistant Deputy Minister for Energy Transition, Coordinating Ministry for Economic Affairs
- Mr. Ignatius Wahyu Marjaka, Director of Governance of Carbon Economic Value Implementation, Ministry of Environment
- Mr. Priyanto Rohmatullah, Director for the Environmental Affairs, Ministry of National Development Planning/National Development Planning Agency (Bappenas)
- Mr. Tri Purnajaya, Director for Development, Economic, and Environmental Affairs, Ministry of Foreign Affairs
- Mr. Andriah Feby Misna, Director of Various New Energy and Renewable Energy, Ministry of Energy and Mineral Resources
- Mr. Apit Pria Nugraha, Head of Centre for Green Industry, Ministry of Industry
- Mr. Boby Wahyu Hernawan, Head of Center for Climate Finance and Multilateral Policy, Ministry of Finance

Project in numbers, applied technologies and sectors



SO 14065 based

Infrastructure

Guidelines

- 1. Project Design Document
- 2. Proposed Methodology
- 3. Third Party Entity
- 4. Validation and Verification
- 5. Sustainable Development Implementation Plan and Report

Rules

- 1. Rules of Implementation
- 2. Rules of Procedure for Joint Committee

Procedure

Project Cycle Procedure

Methodologies
29 methodologies of energy efficiency and renewable energy

Registry system and SRN

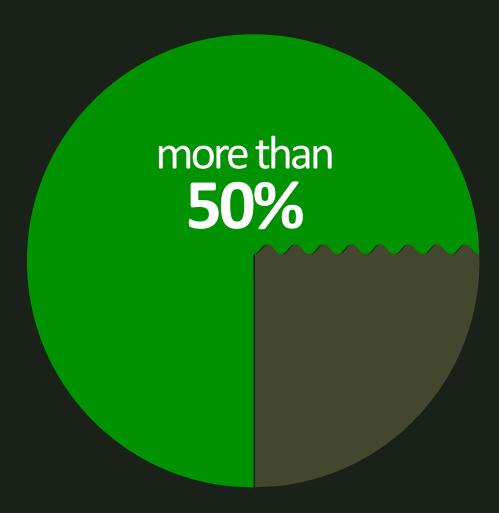
Financial supports

Model project



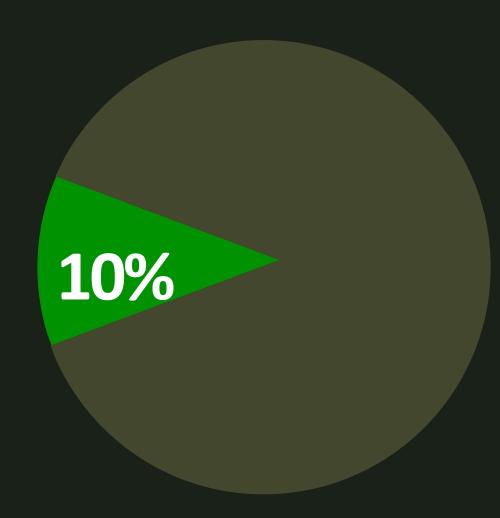
- Supported by MOEJ56 projects

Demonstration project



- Supported by METI/NEDO
- 3 projects
- Implement new technology

Japan Fund for JCM



- Managed by ADB
- 1 project
- Sovereign: grant for incremental cost
- Non-sovereign: interest subsidy for ADB's loan

Private-sector JCM

to further promote JCM

mainly funded by the private sector, rather than being premised on government funding

advance inquiry processes with the partner countries and the concept of credit allocation

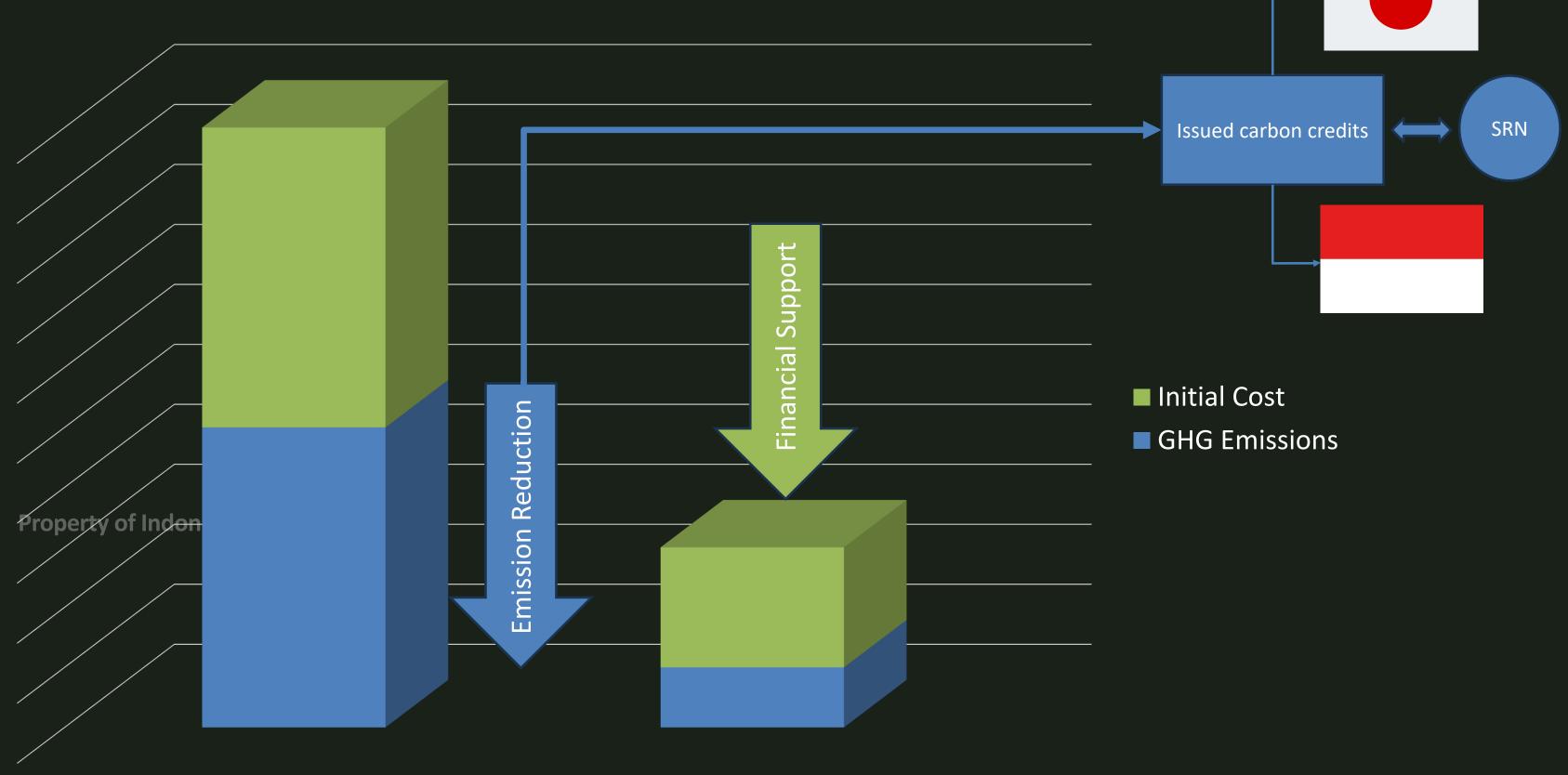
Property of Indonesia JCM Secretariat

giving private companies a business foreseeability for an implementation

have one proposal already for private-sector JCM in Indonesia

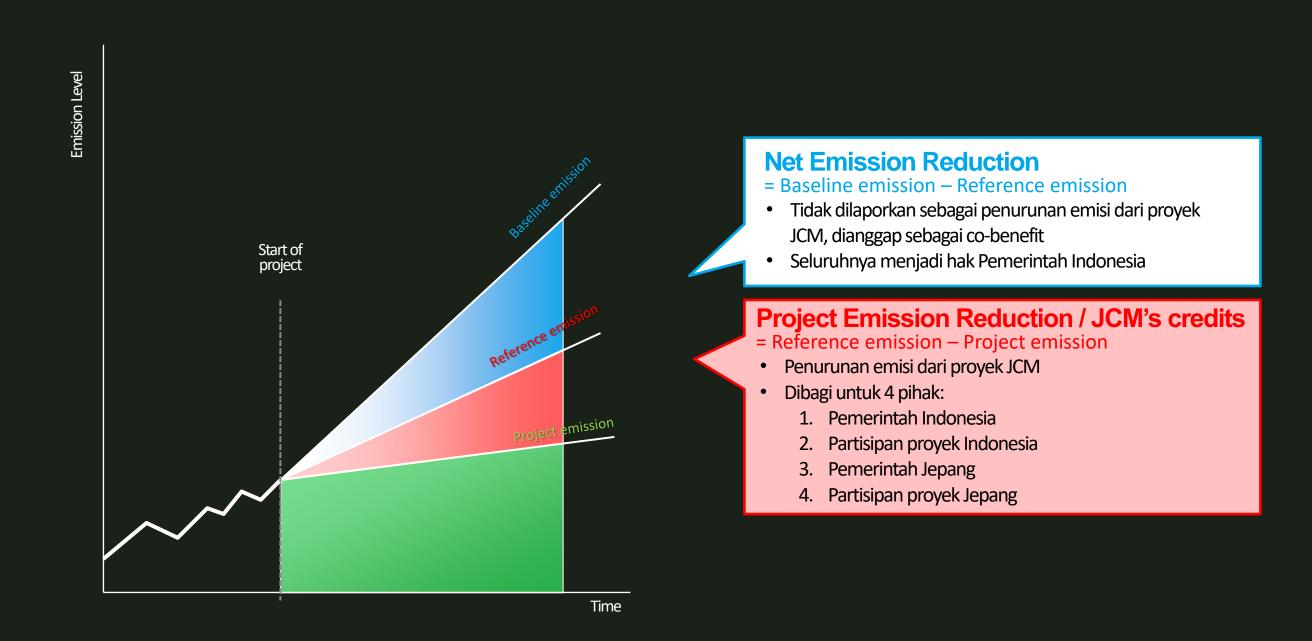
JCM Contributions

Conventional equipment and facility



Advanced decarbonizing equipment and facility

Carbon credits sharing

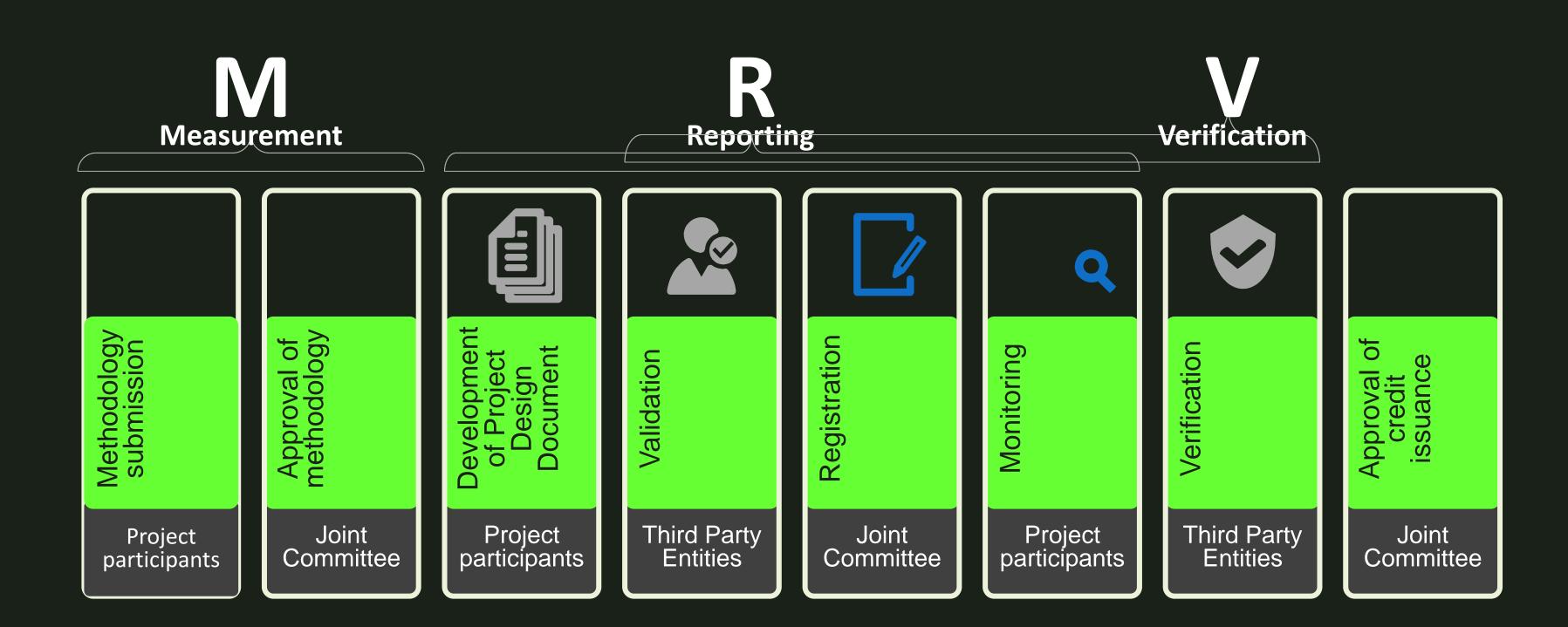


Baseline emission : tingkat emisi ketika tidak dilakukan kegiatan penurunan emisi

Reference emission: tingkat emisi dari teknologi di pasaran

Project emission : tingkat emisi dari proyek JCM

Project cycles



Can be done simultaneously
Can be conducted by the same TPE

City to city cooperations FY2023

Bandung & Kawasaki

Building and Energy Management System (BEMS)
Air quality management linked with smart LED street lights
Traffic management and control systems

Gorontalo & Ehime

Energy savings and Renewable energy Septic tanks and Waste Forest management

Pekanbaru & Kawasaki

Decarbonization domino effect in Riau Province Circular economy EMS and Energy savings

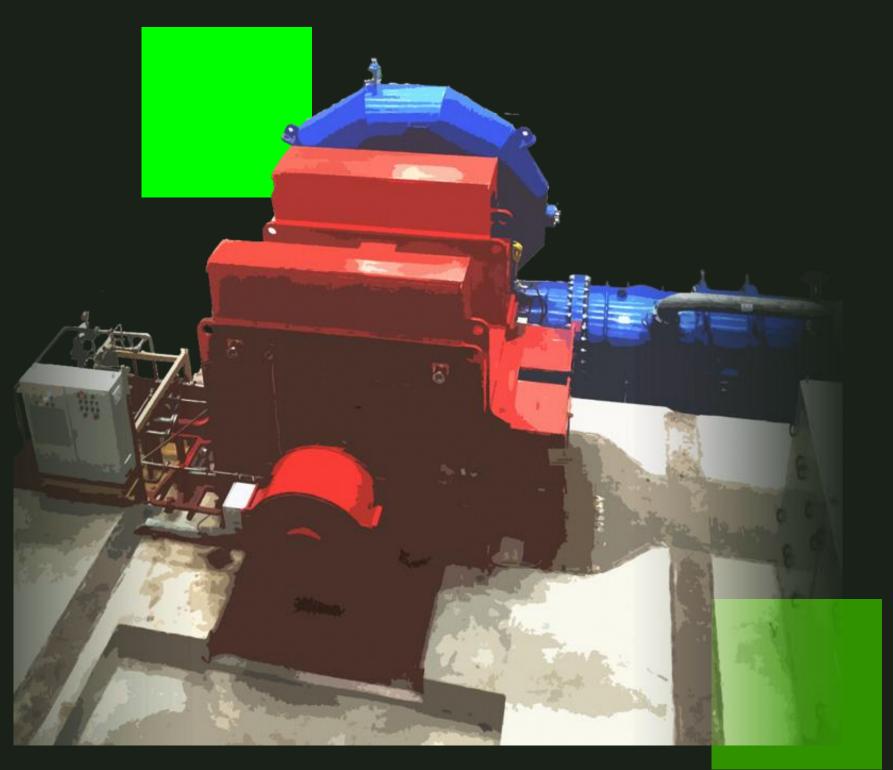
Bali & Toyama

Hydrogen production and fuel cell Fuel Cell Vehicle (FCV) and EV Waste treatment

Jawa Barat & Kitakyushu

Waste heat recovery power generation Waste handling and disposal / RDF Renewable energy and energy saving





10MW Mini Hydro Power Plant Project in North Sumatra

Project participants

PT. Citra Multi Energi & Toyo Energy Farm Co., Ltd.

Location

Parlilitan, Humbang Hasundutan

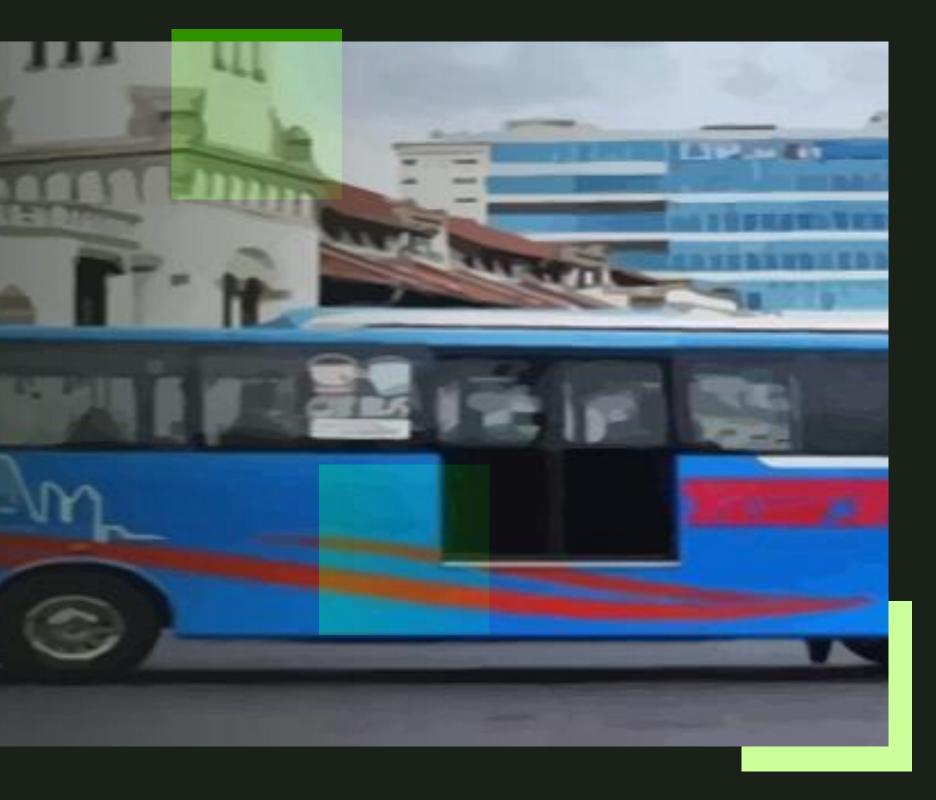
Estimated emission reduction

42,711 tCO₂e/year

A run of river power plant constructed in North Sumatra with a capacity of 10MW (5MW x 2).

Generated electricity is to be supplied to the state power company (PLN) resulting in GHG emission reductions by replacing grid electricity.

This project is also expected to contribute to improving energy supply in the region.



Introduction of CNG-Diesel Hybrid Equipment to Public Bus

Project participants

BLU UPTD Semarang & Hokusan Co., Ltd.

Location

Semarang

Estimated emission reduction

1,870 tCO2/year

Based on the City to City cooperation between Toyama City and Semarang City, this project aims to reduce GHG emissions through fuel switch from diesel to CNG.

72 diesel buses owned by Trans Semarang, including 25 large-sized buses and 47 mid-sized buses, are retrofitted from diesel engine to hybrid engine with CNG system available. These buses are considered more cost-effective through fuel switching.



Installation of Tribrid System to mobile communication's Base Transceiver Stations

Project participants

PT. XL Axiata & KDDI Corp.

Location

20 locations in Sumatera, Java & Kalimantan

Amount of carbon credits issued in 2020 $146\ tCO_2$

Tribrid System at mobile communication's Base Transceiver Stations (BTS) are installed at 20 location in off-grid and poor-grid area in Republic of Indonesia.

Tribrid System is defined as a combined system of solar PV, batteries, and electric power control system.

Tribrid System controls charge-discharge of battery, and also improves the operational efficiency of diesel generators with its electric power control system. Therefore, it enables BTS to reduce CO2 emissions from electricity and fossil fuel.



Energy-Efficient Waste Paper Processing System

Project participants

PT. Fajar Surya Wisesa & Kanematsu Corp.

Location

PT. Fajar Surya Wisesa Factory, Bekasi

Amount of carbon credits issued in 2020

16,177 tCO₂

This project aims to achieve 10% electricity usage reduction per ton produced by introducing a high efficient system for the old corrugated carton (OCC) process, thereby contributing to CO2 reduction.

This OCC process is a process to prepare clean raw materials containing dissolved paper fibers by mixing used corrugated board into water for defiberization and removing foreign substances.

Since a large amount of material (water) is used in this process, the electricity is significantly consumed by the power motors.



Installation of Gas Co-generation System for Automobile Manufacturing Plant

Project participants

PT. Toyota Motor MI (TMMIN) & Toyota Tsusho

Location

TMMIN factory, Karawang

Verified emission reduction in 2020

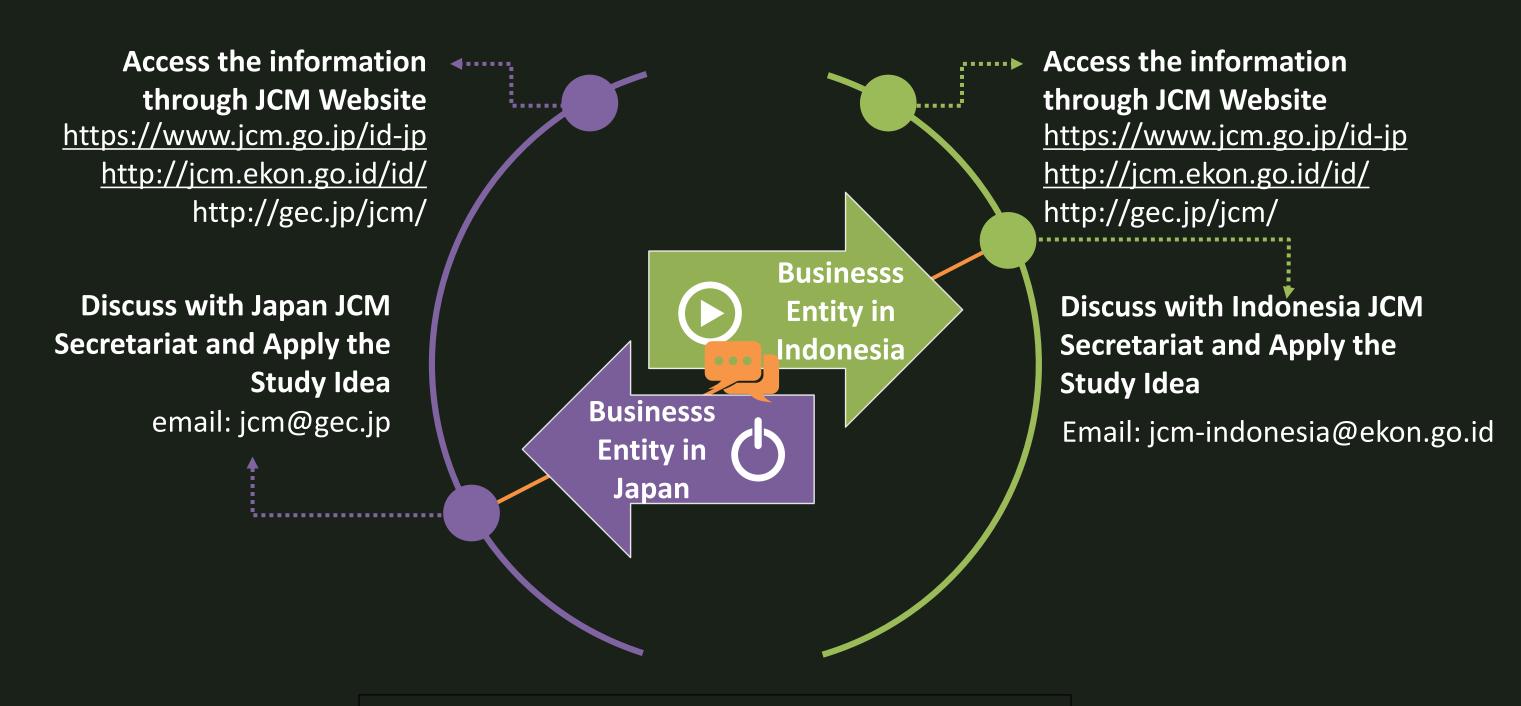
28,737 tCO₂

The purpose of this project is to reduce energy consumption and CO2 emission by installing a gas co-generation system.

This system adopts a high efficiency gas-engine and heat recovery system to generate steam 7,8 MW and hot water.

This project contributes to the reduction of energy consumption at coal fired power generation prevailed in Indonesia, and to the reduction of GHG and air pollutant emissions.

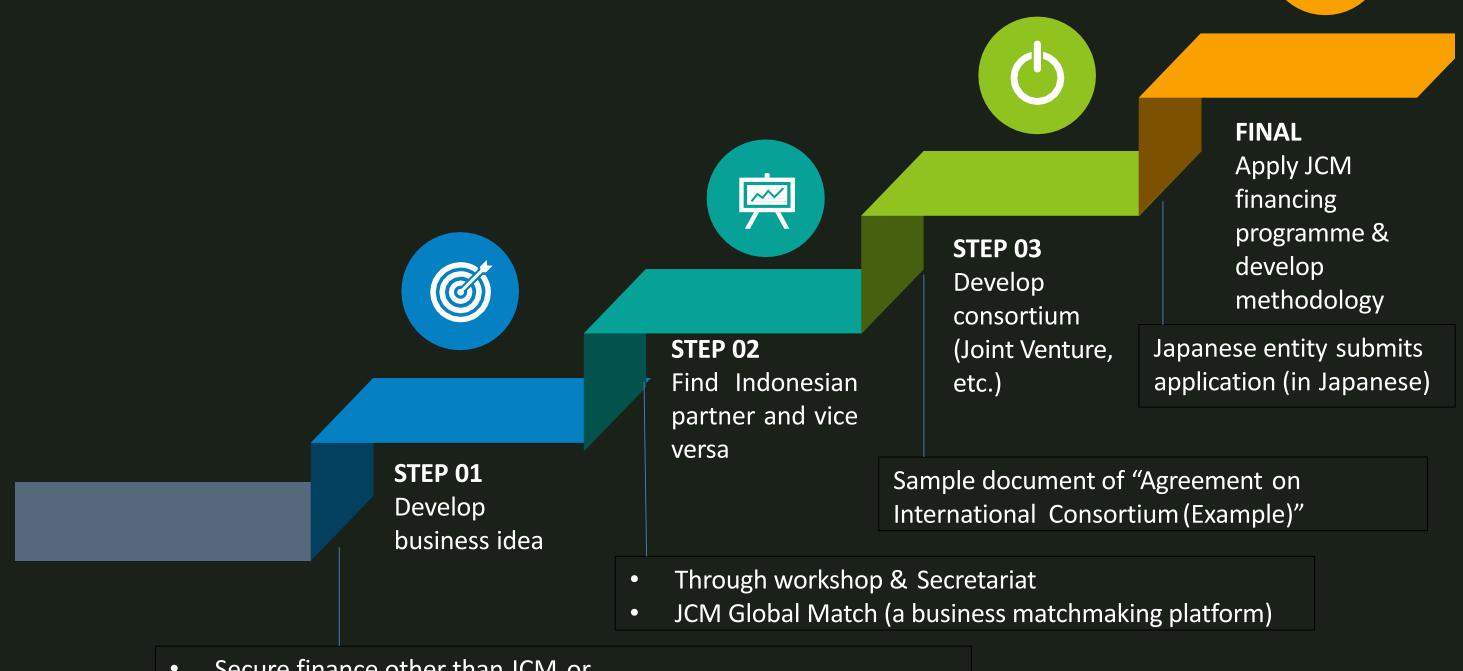
How to access JCM information



PREPARING PROJECT IDEA NOTES and SUPPORTING MATERIALS

How to develop JCM projects





- Secure finance other than JCM or
- Find another financial source for the rest of initial cost (JCM financing programs will not cover all cost, e.g. JCM Model Project covers less than half of the investment cost)

JCM Global Match https://gec.jp/jcm/globalmatch/

JCM overview: http://gec.jp/jcm/about/
Call for proposals: http://gec.jp/jcm/kobo/

Guidelines for Submitting Proposals:

1st: At noon of Friday, 16th May 2025 (Japan Standard Time)

2nd: At noon of Friday, 25th July 2025 3rd: At noon of Tuesday 30th Sep 2025

Japan Fund for the JCM (Trust Fund of Asian Development

Bank): https://www.adb.org/site/funds/funds/japan-fund-for-joint-

crediting-mechanism

Project Idea Note

Project Idea Note for the JCM Model Project			
Title of the proposed project (should be self-explanatory and clearly indicate the activity leading to emissions reduction) Host country The main contact for the project (for identification of the person is charge for the project in terms of communication)	type refrigerating system and PV System in Large Shopping Mall in Indonesia" Republic of Indonesia Name of the contact entity (company, etc): AEON Mall co., Ltd. f Acdress of the contact entity: XXXX		
l project onent info	Website of the contact entity: XXXX Name and position of the main contact person in the entity: XXXX E-mail of the main contact person: XXX Phone number of the main contact person: XXX		
Japanese participant[s] for the project and their roles in the project (if possible, please indicate the contact person of each entity involved in the project)	Roles of the entity in the project: Representative Company Address of the entity: XXXX		
Participant[s] of host country fo the project and their roles in the project (if possible, please indicate the contact person of each entity involved in the project)	Roles of the entity in the project: Co Participant Address of the entity: Jl. XXXXX		

公募提案書(様式 3b)

Brief summary of the project Example: Objective of the project Location of the project planned source of investment Technology[ies] to be adopted for the project, and brief

- description technology[ies]
- implementation scheme, and role of each participant
- Current status and progress of JI. XXXXX the project

Outline of the JCM Model Project

PT. AMSL DELTA MAS will open "AEON MALL DELTA MAS" in late 2019. This mall will be the third core mall for Aeon Mall in Indonesia. The theme of this JCM Model Project is Scale of investment including Introduction of Gas Cogeneration System by absorption type refrigerating system and PV System for CO2 reduction.

- Scale of investment including planned source of investment
- Total investment :JPY XXX (IDR XXX)
- Investment with subsidy: JPY XXX (IDR XXX)
- Location of the project

Detail project information

Technology[ies] to be adopted for the project, and brief description of the technology[ies]

Gas cogeneration system consists of Gas engine generator (3.8MW) and Absorption type refrigerating system (670RT). Absorption type refrigerating system use the waste heat from Gas engine generator in order to generate cool water for air conditioning in the mall.

The capacity of PV system is 107.52kW and generates 138,118kWh/year.

Project implementation scheme, and role of each

Rough estimation of expected GHG emission reductions (unit: tCO₂/year)

Expected schedule up to the EPC completion and the registration under the JCM

- Gas Cogeneration System by absorption type refrigerating system: 6,883.34tCO2/year
- Solar Power Generation: 112.4 tCO2/year

2017	7 May	Submit proposal to JCM application
2017	7 Nov	Start engineering and manufacturing of facilities/machinery

Thank You

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