

Recent Developments of the Joint Crediting Mechanism (JCM)

Webinar on the Joint Crediting Mechanism JCM Implementation for Tunisia

- Contribution to GHG Emission Reductions in Tunisia through the JCM –

1 November, 2023

Ministry of the Environment, Japan



GHG emissions and target in Japan

- □ Long-term goal: Net zero emissions by 2050 compared to 2013
- □ Mid-term target: 46% emission reduction by 2030 compared to 2013
- \Box GHG emissions in 2021: 1.122 billion ton of CO₂ eq. (20.3% decline compared to FY2013)
- □ JCM target: cumulative GHG emission reduction for 100 mil tons of CO2 eq. by 2030



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.





Alignment with **Article 6.2** guidance (Authorization, Corresponding Adjustment and Sustainable Development etc)

JCM Partner Countries (28 countries)



Mongolia Jan. 8, 201 (Ulaanbaatar)



Bangladesh



Mar. 19, 2013 (Dhaka) May. 27, 2013 (Addis Ababa)



Kenva Jun. 12, 2013 (Nairobi)



Maldives Jun. 29, 2013 (Okinawa)



Viet Nam Jul. 2, 2013 (Hanoi)



Lao PDR Aug. 7, 2013 (Vientiane)



Aug. 26, 2013 (Jakarta)



Saudi Arabia May. 13, 2015



Tunisia Aug. 26, 2022 (Tunis)



Papua New Guinea Nov. 18, 2022 (Sharm-el-Sheikh)



Chile

May. 26, 2015 (Santiago)



Azerbaijan Sept. 5, 2022 (Baku)



United Arab Emirates Apr. 16, 2023 (Sapporo)



Costa Rica Dec. 9, 2013 (Tokyo)



Sep. 16, 2015 (Nay Pyi Taw)



Moldova Sept. 6, 2022 (Chisinau)



Kyrgyz Republic July. 6, 2023 (Bishkek)



Palau Jan. 13, 2014 (Ngerulmud)



Thailand Nov. 19, 2015 (Tokyo)



Georgia Sept. 13, 2022 (Tbilisi)



Republic of Kazakhstan* October 30, 2023 (Astana)



Cambodia Apr. 11, 2014 (Phnom Penh)



Philippines Jan. 12, 2017 (Manila)



Sri Lanka Oct. 10, 2022 (Colombo)



Mexico Jul. 25, 2014 (Mexico City)



Senegal Aug. 25, 2022 (Dakar)



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]



convenience stores, Panasonic, Indonesia



High-efficiency airconditioning system, Hitachi, Daikin, Vietnam

Energy efficiency [Industrial sector]



Optimization in petroleum refining plant, Yokogawa Electric Corp. Indonesia



Energy efficiency [Urban sector]



High-efficiency refrigerator,

Mayekawa MFG, Indonesia

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



Waste to Energy Plant, JFE engineering, Myanmar

Transport



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

Activities related to the JCM by Government of Japan



Capacity building

- Article 6 Implementation partnership
- Secretariat work for the JCM
- Partnership for Market Implementation Facility [World Bank]
- City-to-city cooperation
- Training for TPEs



Project development

- Seminars/workshops
- JCM Global Match (biz matching website)
- Consultation with project

developers/consultants

- City-to-city cooperation
- JCM Feasibility Study



Project implementation

- JCM Model Projects
- Japan Fund for the JCM [ADB]
- F-gas Recovery and Destruction Model Project
- Financial support for projects [UNIDO]
- JCM Demonstration Projects



Monitoring/evaluation

- Support for MRV (development of methodology and project design document, validation and verification by TPEs)
- Secretariat of the Joint Committee
- Support for establishment of a registry

Outreach activities through Carbon Markets Express (website)

Overview of Japan's support for the JCM partner countries

Ministry	Programme	Type of support
Ministry of the Environment	Finance Programme for JCM Model Projects*	Subsidy
	Finance Programme for F-gas Recovery and Destruction Model Projects*	Subsidy
	Japan Fund for the JCM (JF JCM) - managed by ADB	Grant
	JCM support programme by UNIDO*	Grant for projects, technical cooperation
	Project development/capacity building/MRV support	Technical cooperation
Ministry of Economy, Trade and Industry	JCM Feasibility Study	Technical cooperation
	JCM Demonstration Programme	Government-commissioned project
Forestry Agency	Field studies for JCM REDD+	Government-commissioned project

* These programmes can support projects implemented by government-owned companies but not those implemented by the government itself.

Finance programme for JCM Model Projects by MOEJ

Budget for projects starting from FY 2023 is approx. <u>15 billion JPY</u> (approx. <u>USD 109 million</u>) in total by FY2025 (1 USD = 137 JPY)

Finance part of an investment cost (**up to half**)

* 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)

Government

of Japan



- 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 financing is awarded and finishing installation within three years.

Finance programme JCM F-gas Recovery and Destruction Model Project by MOEJ

[Budget for FY2023] 61 million JPY (approx. 0.45million USD) (1 USD = 137 JPY)

> 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)

Government

of Japan

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 energyrelated 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

JCM support programme by UNIDO

Budget	Cumulative contribution from 2021: JPY 400 million (approx. USD 2.92 million)
Overview	 Japanese service providers support the implementation of projects that utilize leading decarbonizing technologies/methane emission reduction technologies in JCM partner countries. Reduce the additional costs of the introduction of leading decarbonizing technologies/methane emission reduction technologies through financial support from UNIDO
Purpose	Targeting JCM partner countries, mainly in the African region, promote the transition to a decarbonization of society by developing a leading decarbonizing technologies, through the JCM scheme and aim to acquire JCM credits from realized GHG emissions reductions
Feature (Non-Sovereign)	 Application: Japanese company as a service provider/ an international consortium Maximum Percentage of Financial Support : up to 75% Monitoring period : an annual basis for at least 5 years etc.



JCM Financing Programme by MOEJ (FY2013~2023) as of Nov 2023

Total 235 projects (28 partner countries)

(●Model Project: 222 projects(including Eco Lease: 7projects), ■ADB: 6 projects, ■UNIDO: 1 project, ◆ REDD+: 2 projects, ▲F-gas: 4 projects)

157 underlined projects have been started operation. **72 projects with** * have been registered as JCM projects.



Thank you for your kind attention

