



JOINT CREDITING MECHANISM IN MONGOLIA

Otgontsetseg L, Secretary of the JCM between Mongolia and Japan



@Japan Pavilion, COP27

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Эвэридэй Фарм 12.7 МВт НЦС

POLICY ENVIRONMENT



Arrangements necessary for the further implementation of the JCM within the framework of Article 6.2 of the Paris Agreement in Mongolia

For the preparation:

- > Domestic arrangements to authorize the use of JCM credits for ITMO's and NDC targets
- Domestic arrangements for corresponding adjustment (CA)
- To develop domestic registry system for measures taken on emission reduction (JCM has its own online webbased registry system)
- ➢ To prepare the reports (IR, AR, RI)

Actions that may need to be considered further in the implementation of the existing JCM:

- > Ensure environmental integrity with conservative reference emissions.
- Support for sustainable development (JCM Mongolia has SDCP/SDCR documents that regulates the JCM projects environmental integrity and contribution for SDG's, and the Gender equality guideline were adopted in 2020)
- JCM partner countries will have to fulfill their obligations to participate in the cooperative approach for example, the most recent greenhouse gas inventory report required by decision.

18/CMA.1, MPGs https://unfccc.int/sites/default/files/resource/cma2018_3_add2_new_advance.pdf

<u>Preparation status for the further implementation of the JCM within the</u> <u>framework of Article 6.2 of the Paris Agreement in Mongolia</u>

For the preparation of further implementation of the JCM within the framework of Article 6.2 of the Paris Agreement:

The JCM has periodically made the arrangements since the adoption of the PA in 2015. For example: The Gender equality guideline developed within the framework of the JCM in 2020, and JCM Mongolia-Japan developed and implemented the SDCP/SDCR documents in 2018.

According to the requirements of 6.2, the necessary arrangements for all regulations and guidelines were updated and approved by the 8th Joint Committee meeting of the JCM between Mongolia and Japan, which was held on February, 2022.

CORSIA:

JCM Mongolia-Japan submitted its second application to CORSIA in February 2022. First application was submitted in 2020.

Updates of regulations and guidelines of JCM in Mongolia under the requirement of CORSIA, and

following Paris Agreement decision

	SUBJECT	ISSUES ADDRESSED FOR CORSIA
JCM Rules and Guidelines	Rules of Implementation (RoI)	 Avoidance of double claiming Corresponding adjustments Written attestation
	Common Specifications of the JCM Registry	Information on credit vintage (year of emission reductions)
	Project Cycle Procedure (PCP)	Reference, crediting period
	Guidelines for Developing Proposed Methodology	Reference, additionality, leakage and its procedure
	Guidelines for Developing Project Design Document and Monitoring Report	Review on the crediting period and its procedure
	Rules of Procedure for JC	Conflict of Interest and its procedure
	Glossary of Terms	Definition on the new terms
MN side	Registry (including website)	Tracking CORSIA-eligible units
		✓ JCM Mongolia-Japan plans to track units in the Mongolian registry in the same way as the Japanese registry. The status of those units authorized/canceled will be disclosed on the JCM website.
	Guidelines for the Implementation of the JCM in Mongolia	Development of the guidelines
		✓ The Guidelines aim at:
		- Facilitating the efficient implementation
		- Issuance of the JCM credits in the JCM registry of Mongolia
		- Management of the issued JCM credits
		- Procedures and forms related PA and its relevant decisions
		- Rules and guidelines established on the basis of the bilateral document.

RENEWABLE ENERGY DEVELOPMENT IN MONGOLIA







<u>MN001, MN002</u>

"Installation of high efficiency boiler in 118th school of UB and Upgrading and Installation of Centralized Control System of High-efficiency HOB in Bornuur soum"



Project particpants: ANU Service LLC Suuri Keikaku LLC

2016 and 2018

Total amount of credits issued in

483 T-CO2

Implementing period:

2013-2030

<u>MN003</u>

Installation of 12.7 MW Solar Farm project in Ulaanbaatar suburb

Project particpants:

Everyday Farm LLC Farmdo LLC

Implementing period:

2016 - 2030

Total amount of credits issued as of 2022

44,299 T-CO2e

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(Photo: Everyday Farm LLC)



<u>MN004</u>

10MW Solar Power Plant project in Darkhan City

Project particpants:

Solar Farm International LLC Sharp Corporation

Implementing period:

2016-2030

Total amount of credits issued in 2017

8947 T-CO2



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(Photo: Solar Power International LLC)

<u>MN005</u>

A HIGH EFFICIENCY AND LOW LOSS POWER TRANSMISSION AND DISTRIBUTION SYSTEM IN MONGOLIA

> Project particpants: NTPS SOE Hitachi Ltd.

Implementing period: 2018-2019

Total amount of credits issued in 2019 1 T-CO2

PROJECT COMPLETED





<u>MN006</u>

15 MW Solar Power Plant project located in Khushig Valley, Tuv province

Project particpants: Solar Farm International LLC Sharp Corporation

Implementing period: 2017-2030

Expected GHG emission reduction /per year/ 18438 T-CO2

Power generation /per year/ 24 million KWh

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(Photo: Tenuun Gerel Construction LLC)







Figure 3. BEFORE: DZL (16 ton/hour steam boiler)

Figure 4. AFTER: DAEYEOL (4 boiler with a steam capacity of 3.4 tons), NTEC (8 boiler with a heating capacity of 0.63 GCal/h)

MN007 –Fuel conversion project at te MCS Coca Cola factory. Production in 2021: Heat produced by steam 3589 GJ, Heat produced by hot water 409 GJ, CO2 emission reduction - 5781 tCO2e Project particpants: MCS International LLC Saisan Co.,Ltd.

JFJCM

(MN008) 5 MW solar PV with 3.6MWh battery storage and energy management system in Uliastai(solar), Aldarkhan(storage) soum in Zavkhan province

Project participants:

MCS International LLC, Ministry of Energy NGK Insulators Ltd., ADB

Implementing period: 2018-2030

Expected GHG emission reduction 6439 t-CO2 per year, 160,975 t-CO2 for 25 years.

Official opening ceremony will be in mid of November, 2022



JCM PROJECTS CREDIT ISSUANCE / CO2 REDUCTIONS

JCM partnership document is signed by 24 countries. Currently, a total of 53,730 t-CO2e credits issued for Mongolia whereas so far 10 countries have been issued 126,628 t-CO2e credits for the 40 projects. (as of Nov, 2022)

	Year	Credit issuance (1 credit =t-CO2e)				
Country		Total	Japan	Project implementer (by country)		
Indonesia	2016-2020	56,254	36,614	19,650		
Mongolia	2016-2022	53,730	42,982	10,748		
Vietnam	2017-2019	4,415	2,691	1,724		
Palau	2016-2018	881	659	222		
Thailand	2018-2020	4,032	2,017	2,015		
Laos	2019	207	174	33		
Maldives	2019	152	78	77		
Kenya	2021	486	_	486		
Cambodia	2020	92	92	_		
Saudi Arabia	2020	3074	3074	-		

COMPARISON OF THE JCM PROJECTS EMISSION REDUCTION (as of Dec, 2021)

N⁰	PROJECT NAME	STARTED DATE (year/month)	COMPLETED DATE (year/month)	TOTAL ENERGY PRODUCTION (Kw/h)	TOTAL POWER SUPPLY (Kw/h)	INTERNAL USE (Kw/h)	CO2 REDUCTION (T/CO2)
MN004	Darkhan 10 MW SPP	2016/2	2017/1	15,868,617.7*	15,739,112.9*	129,504.8*	12,567.94*
MN003	Mon Naran 12.7 MW SPP	2016/9	2017/8	18,964,000.00	18,201,702.50	763,233.14	14,981.560
MN006	Khushig Valley 15 MW SPP	2017/6	2019/6	26,366,866.5	26,048,052	318,814.5	20,760.297
MN001	HOB - 118 th School of Ulaanbaatar	2013/7	2014	19,581 GJ	19,581 GJ	None	62
MN002	Upgrading and Installation of Centralized Control System of High-efficiency HOB in Bornuur soum	2013/7	2014	39,211 GJ	39,211 GJ	None	102
MN007	Fuel Conversion by Introduction of LPG Boilers to Beverage Factory, Ulaanbaatar	2019/10 started construction	2020/8	By steam: 3589,7 GJ By water: 404.8 GJ	2195,3 GJ 404.8 GJ	1394,3 GJ	5781

ACHIEVEMENTS IN PAST 10 YEARS

- 1. Introduce low carbon technology
- The key to reducing GHG emissions is to move from old technologies that are no longer economically viable, emit more carbon, less energy efficient, and cause more air pollution.
- 2. Increase competitiveness and economic efficiency
- The JCM projects in Mongolia are a combination of good practices which introduced new advanced technologies, investments, financing, and international standards.
- 3. Private sector participation and contribution to climate change mitigation
- > JCM contributes to the expansion of public-private sectors cooperation in Mongolia.
- 4. Sustainable development goals
- JCM contributes to sustainable development of Mongolia through its projects as well as improving human health and working environment and gender equality is emphasized at all levels of JCM implementation.
- 5. Alternatives, cost-effectiveness, and benefits are all associated with the JCM.
- > JCM helps in pre-finance the projects, thereby reducing the risk of complications during project development.

CONCLUSION

- The country lacks national policy for integrating GHG emissions reductions into the carbon market system, which is necessary to develop regulations to authorize the use of JCM credits for ITMOs and NDC targets.
- Needs to establish a unified registry system, in order to track GHG emissions reductions at the national level.
- Needs to be careful and avoid the risks that the results of emission reductions transferred(ITMO) internationally in accordance with articles 6.2 and 6.4 of the Paris Agreement. Avoid double counting.
- Taking advantage of the use and adopting good practices, such as examples, regulations, registry systems, technology, know-how, and financing of the JCM, for other climate change-related projects.

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Happy 10th Anniversary

to all JCM members!

THANK YOU!

www.jcm-mongolia.com www.jcm.go.jp