

**WORKSHOP ON 3E NEXUS AND DEVELOPMENT OF JCM PROJECTS
TOWARD A SUSTAINABLE LOW-CARBON SOCIETY IN MONGOLIA**

23 February 2016, Ulaanbaatar Hotel

**Opportunities, challenges,
and expectations on the
JCM in Mongolia**

Otgontsetseg Luvsandash

Nature conservation Fund as the Secretariat of the JCM
Ministry of Environment, Green Development and Tourism

Current status of JCM in Mongolia

Road to “LCDP”

Governmental consultation
(Ulaanbaatar -3 July 2012)

Governmental consultation
(Tokyo -1 November 2012)

Governmental consultation
(Doha -30 November 2012)

Joint Statement
(Doha -6 December 2012)



Signing of the “Low Carbon Development Partnership” (bilateral document for the JCM)

(Ulaanbaatar- 8 January 2013)

Start of “JCM”

JCM first Joint Committee meeting
(Ulaanbaatar - 11 April 2013)

JCM second Joint Committee meeting
(Ulaanbaatar - 20 February 2014)

JCM third Joint Committee meeting
(Ulaanbaatar - 30 June 2015)



Joint Committee

Mongolia

Co-Chair

Members
(7 Ministries and
UB City Authority)

Secretariat

Observers

Japan

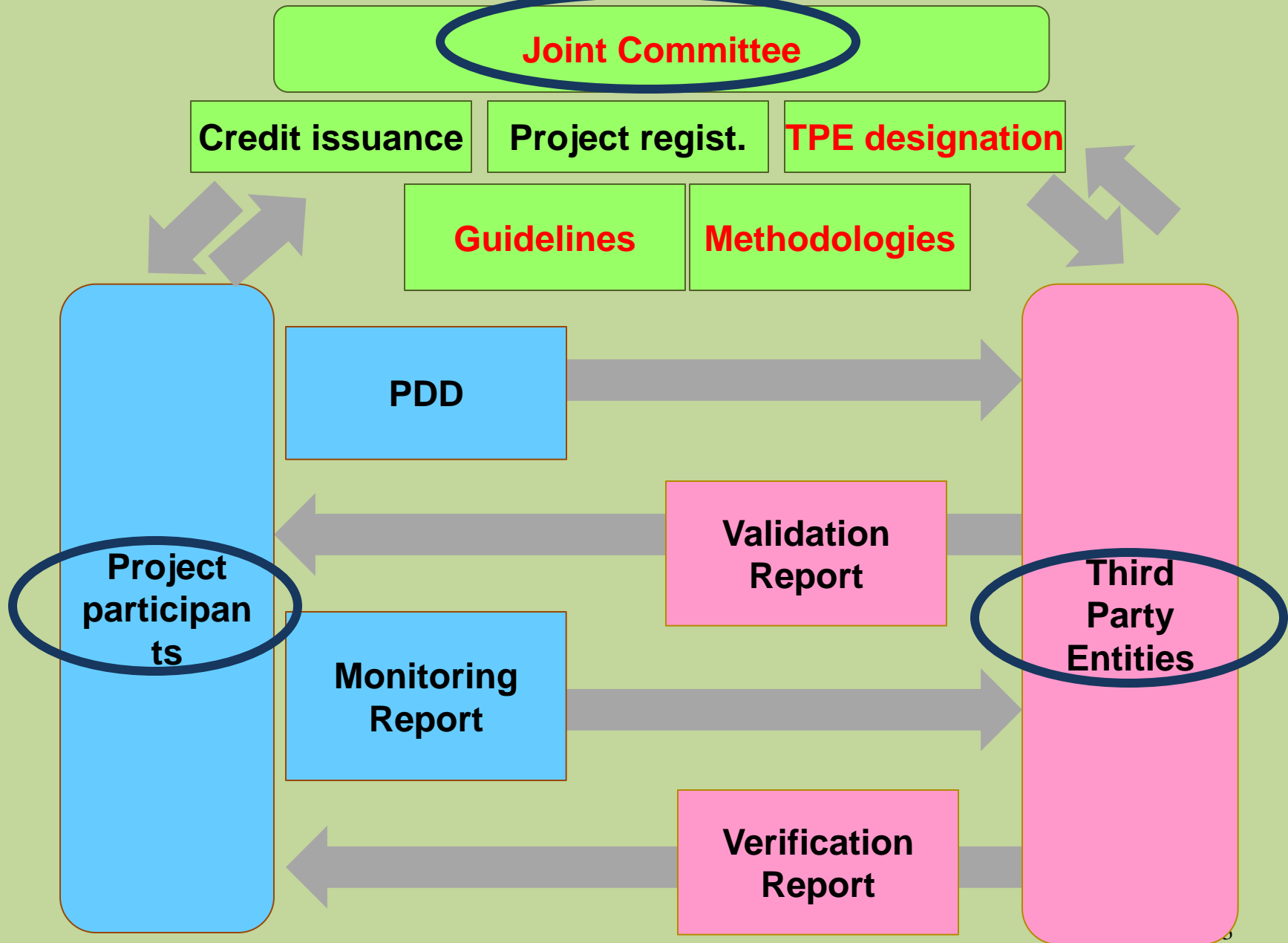
Co-Chair

Members
(2 Ministries and
Japanese Embassy
in Mongolia)

Secretariat

Observers

JCM stakeholders



JOINT COMMITTEE
(Secretariat office)



Joint Committee



Mongolia

Co-Chair
(MEGD)

Members
(7 Ministries and UB City
Authority)

Secretariat
(MEGD)

Observers
(Clean Air Fund and National
Renewable Energy Center)

Japan

Co-Chair
(MoFA)

Members
(2 Ministries and Japanese
Embassy in Mongolia)

Secretariat
(Mitsubishi UFJ
Research and
Consulting)

Observers
(IGES, OECC, GEC, NEDO and JICA
)



Joint Committee (JC) of Mongolia

	Organization	JC member	Alternate JC member	Co-Chair	Technical focal point	JCM secretariat
	Ministry of Environment and Green Development			Z.Batjargal	Ts.Gerelt-Od	Kh.Undarmaa
						L.Otgontsetseg
1	Ministry of Foreign Affairs	D.Batjargal	B.Gereltsetseg			
2	Ministry of Industry and Agriculture	B.Manansan	I.Bold			
3	Ministry of Mining	L.Radnaasuren	D.Otgonlkhagva			
4	Ministry of Road and Transport	U.Odgerel	Ts.Bayarjargal			
5	Ministry of Construction and Urban Development	U.Otgonbayar	Yu.Dorjpagma			
6	Ministry of Energy	B.Tovuudorj	M.Tumenjargal			
7	UB City authority	Kh.Galimbek	N.Nasanjargal			

Approved documents for the JCM by JC

		Rules and Guidelines
Overall		<ul style="list-style-type: none"> •Rules of Implementation •Project Cycle Procedure •Glossary of Terms •Guidelines for Designation as a Third Party Entity (TPE guidelines)
Joint Committee		<ul style="list-style-type: none"> •Rules of Procedures for Joint Committee (JC rules)
Methodology		<ul style="list-style-type: none"> •Guidelines for Developing Proposed Methodology (methodology guidelines)
Project procedure	Developing a PDD	<ul style="list-style-type: none"> •Guidelines for Developing Project Design Document and Monitoring Report (PDD and monitoring guidelines)
	Monitoring	
	Validation	<ul style="list-style-type: none"> •Guidelines for Validation and Verification (VV guidelines)
	Verification	

Approved templates for the JCM by JC

	Templates
Methodology	<ul style="list-style-type: none">•Proposed Methodology Form•Approved Methodology Revision Request Form
Project Planning	<ul style="list-style-type: none">•Project Design Document Form•Project Registration Request Form•Proposed Methodology Spreadsheet Form•Modalities of Communication Statement Form
Project Implementation	<ul style="list-style-type: none">•Post-Registration Changes Request Form•Registration Request Withdrawal Form•Project Withdrawal Request Form•Credits Issuance Request Form•Issuance Request Withdrawal Form
TPE	<ul style="list-style-type: none">•Application Form for Designation as a Third Party Entity•Validation Report Form•Verification Report Form

Number	Name	<u>Sectoral scopes for validation</u>	<u>Sectoral scopes for verification</u>	Designated date
<u>TPE-MN-014</u>	ERM Certification and Verification Services Limited	1, 2, 3, 4, 5, 8, 9, 10, 13, 15	1, 2, 3, 4, 5, 8, 9, 10, 13, 15	26 Sep 15
<u>TPE-MN-013</u>	National Renewable Energy Center	1, 2, 3	1, 2, 3	27 Apr 15
<u>TPE-MN-012</u>	EPIC Sustainability Services Private Limited (EPIC)	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 13, 14, 15	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 13, 14, 15	05 Apr 15
<u>TPE-MN-011</u>	TUV Rheinland (China) Ltd	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15	09 Sep 14
<u>TPE-MN-010</u>	KBS Certification Services Pvt. Ltd.	1, 3, 4, 5, 7, 12, 13, 15	1, 3, 4, 5, 7, 12, 13, 15	15 Jan 14
<u>TPE-MN-009</u>	SGS United Kingdom Limited	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15	15 Jan 14
<u>TPE-MN-008</u>	TÜV SÜD South Asia Private Limited	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15	24 Dec 13
<u>TPE-MN-007</u>	Lloyd's Register Quality Assurance Limited	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13	05 Dec 13
<u>TPE-MN-006</u>	Deloitte Tohmatsu Evaluation and Certification Organization Co., Ltd	1-3, 5, 10, 12, 13, 15 (<u>sectoral scopes 6, 7 and 9 were withdrawn as 4, 6, 8 was voluntarily withdrawn and 7 and 9 were not reaccredited under the CDM)</u>)	1-3, 5, 10, 12, 13, 15 (<u>sectoral scopes 6, 7 and 9 were withdrawn as 4, 6, 8 was voluntarily withdrawn and 7 and 9 were not reaccredited under the CDM)</u>)	05 Dec 13

JCM PROJECTS in MONGOLIA (2013-2014)

Project type	Project title	Sector scope	Support
Model project	Upgrading and Installation of Centralized Control System of High-Efficiency Heat Only Boiler	Energy (EE)	MoEJ/GE C
Project Planning Study (PS)	10MW-scale Solar Power Plant and Rooftop Solar Power Generation System	Energy (RE)	MoEJ/GE C
Feasibility Study (FS)	Improvement of Thermal Insulation and Water Cleaning/Air Purge at Power Plant	Energy (EE)	MoEJ/GE C
	10MW-scale Solar Power Generation for Stable Power Supply	Energy (RE)	MoEJ/GE C
	Energy conservation at cement plant	Energy (EE)	MoEJ/GE C
	GHG emission reduction by introducing an energy-efficient complex in Ger area of Ulaanbaatar	Energy (EE)	METI/NE DO
	Research on developing projects on wind power generation	Energy (RE)	METI/NE DO
Demonstration and verification project	High efficiency and low loss power transmission and distribution system in Mongolia	Energy (EE)	METI/NE DO

JCM PROJECTS in MONGOLIA (2014-2015)

Project type	Project title	Sector scope	Supporter
JCM Project Planning Study (PS)	10MW-scale Solar Power Generation for Stable Power Supply - Taishir	Energy (RE)	MoEJ/GEC
Large Scale JCM Feasibility Study	Study for the development of JCM projects for comprehensive improvements in the power generation, transmission and distribution systems in Ulaanbaatar City and on the possibility of nationwide horizontal application of the same improvement model in Mongolia	Energy (EE)	MoEJ/GEC
	Feasibility study on a programme-type finance scheme for the JCM in Mongolia	-	MoEJ/IGES
JCM Feasibility Study (FS)	Efficiency Improvement of Combined Heat and Power Plant by Thermal Insulation	Energy (EE)	MoEJ/GEC
	Reduction of CO2 emission by utilizing fly ash as cement substitute in Mongolia	Waste handling and disposal	METI/NEDO
	GHG reduction by methane fermentation of sewage sludge and food waste in Ulaanbaatar	Waste handling and disposal	MoEJ/Waste management and recycling department
	Distributed heat supply system using biomass and coal mixture combustion type boiler	Waste Management /Biomass Utilisation	MoEJ/GEC
FS and Demo project	Co-benefit project for Heat Only Boiler	Energy (EE)	MoEJ/International Cooperation Office/OECC

National TPE development

Capacity buildings are organized by MEGD and IGES for potential TPE candidates in Mongolia

Instructor	Title	Date
Shigenari Yamamoto (JQA)	Seminar on “Required competences for self-implementation of JCM Validation/verification activities by Mongolian people “	28 Oct 2013
Kenta Usui (IGES)	Training on “Validation for JCM “	22 Jan 2014
Tsuyoshi Nakao (ERM)	Training on “Validation/verification for JCM”	3-5 Mar 2015
Tsuyoshi Nakao <u>Initial result</u>	Training on “Validation/verification for JCM”	10-11 Nov 2015

National Renewable Energy Center is accredited under ISO 14065 by an accreditation body (MASM) based on ISO14064-2. Accredited sector scopes are energy industries, energy distribution and energy demand.

Advantages

Cost, time, local circumstances knowledge etc.,

Cooperation with National Accreditation Body

*Mongolian Agency for Standardization and Metrology (MASM) is accreditation body of Mongolia.

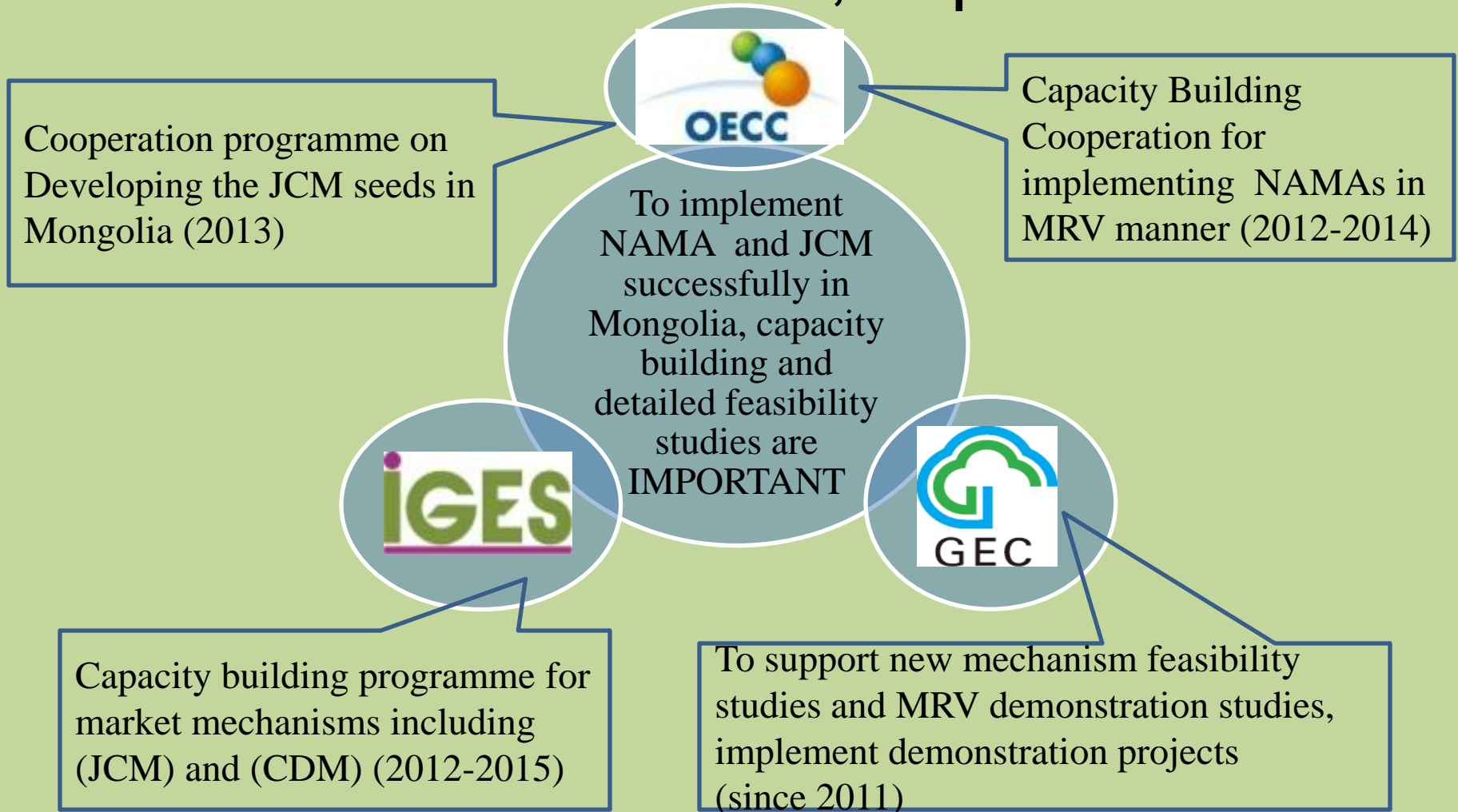
1. Approval of GHG standards into Mongolian standard

Standard code	Standard title	Standard code of Mongolia
<i>ISO 14064-1 :2006</i>	Specification with guidance at the organization level for quantification and reporting of greenhouse gas emissions and removals	MNS: 14064-1: 2006 (translation revising)
<i>ISO 14064-2:2006</i>	Specification with guidance at the project level for quantification, monitoring and reporting of greenhouse gas emission reductions or removal enhancements	MNS: 14064-2: 2006 (translation revising)
<i>•ISO 14064-3:2006</i>	Specification with guidance for the validation and verification of GHG assertions	approved in 2015
<i>ISO 14065:2013 (second edition)</i>	Requirements for GHG validation or verification bodies	MNS : 14065:2013
<i>ISO14066:2011 (complement of ISO14065)</i>	Competence requirements for GHG validation teams and verification teams	approved in 2015

2. GHG training program for ISO14065 IGES Capacity building activities on MASM (Sep 2014; with Japan Accreditation Board –JAB)

3. First national entity is accredited under ISO 14065 by an accreditation body (MASM) based on ISO14064-2

Capacity Building : Bilateral cooperation with Ministry of Environment, Japan

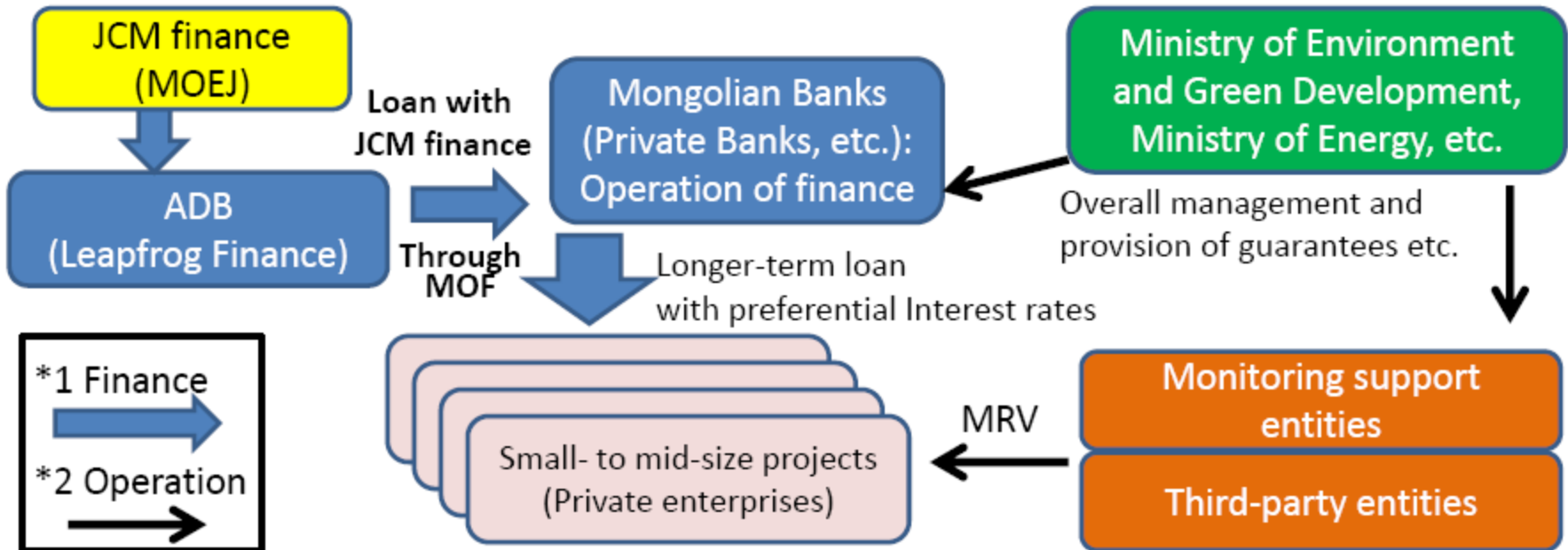


Feasibility study on a programme-type finance scheme for the JCM in Mongolia



1. Project Outline

The proposed study will be carried out in order to design a programme-type finance scheme for the JCM with the use of the JCM leap-frog finance and in partnership with local banks that will facilitate the implementation of small- to middle-scale JCM projects



The use of government guarantees and JCM finance will enable the introduction of advanced Japanese technologies with the use of longer-term loan with preferential interest rates.

Advantages to the proposed finance scheme :

- * It will enable the introduction of Japanese technologies tailored to the needs of Mongolia.
- * Local entities will effectively manage a number of small- to middle-scale projects.

Challenges related to implementing JCM

- Technical barriers (e.g. methodology development, monitoring, validation and verification)
- Institutional barriers (e.g. lack of information, inter-ministerial coordination etc)
- Financial barriers (e.g. upfront investment, appropriate financing scheme)
- Finding appropriate partners is challenging (Japanese and Mongolian)

JCM implementation will and expectations

- ✓ Support Mongolian and Japanese effort in reducing GHG emission and achieving target
- ✓ Encourage low carbon development
- ✓ Promote green investment and technology transfer
- ✓ Encourage private and public sector participation through emission reduction projects
- ✓ Achieve co-benefits such as environmental quality, enhanced capacity, increased employment, and developed MRV expertise.

JCM information sharing and coordination

Under the capacity building activities between IGES and MEGDT, www.jcm-mongolia.com website is launched in November 2015

Benefits:

- Raising public awareness on JCM
- Recent updates
- Improved networking between Mongolian and Japan partners

www.jcm-mongolia.com



MON ENG

JCM



Joint Crediting Mechanism

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Information distribution:

- Workshop announcement
- Training materials
- Publications related to JCM
- Recent updates on JCM and its public calls
- Laws and legislations

11-Р сар, 2015

10 WORKSHOP ON THE JOINT CREDITING MECHANISM (JCM) PROMOTING LOW-CARBON PROJECTS IN MONGOLIA

11 TRAINING FOR TPE CANDIDATES

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мэдээ

МОНГОЛ-ЯПОНЫ ХҮЛЭМЖИЙН ХИЙН ЯЛГАРЛТЫГ БУУРУУЛАХ ХАМТАРСАН КРЕДИТ ОЛГОХ МЕХАНИЗМЫН /ХОКОМ/ -ЫН ХАМТАРСАН ХОРООНЫ ГУРАВДУГААР ХУРЛЫН ТАЛААР

Монгол, Япон улсын Засгийн газрын хооронд 2015 оны 1 сарын 8-ны өдөр байгуулсан "Нүүрстарагч" багатай холбоотой түншлэлт" ийн баримт бичгийн хүрээнд хэрэгжжэ байгаа хүлэмжийн хийн ялгаралтыг бууруулах хамтарсан кредит олгох механизмын /ХОКОМ/ Хамтарсан Хорооны гуравдугаар хурал 2015 оны 6-р сарын 30-ны өдөр Байгаль орчин, ногоон хөгжил, агаар хуучлалын гэгээн байранд эгнээтэй [...]

11 сар 4th, 2015 | Мэдээ | Comments Off on МОНГОЛ-ЯПОНЫ ХҮЛЭМЖИЙН ХИЙН ЯЛГАРЛТЫГ БУУРУУЛАХ ХАМТАРСАН КРЕДИТ ОЛГОХ МЕХАНИЗМЫН /ХОКОМ/ -ЫН ХАМТАРСАН ХОРООНЫ ГУРАВДУГААР ХУРЛЫН ТАЛААР | Read More >

МОНГОЛ-ЯПОНЫ ХҮЛЭМЖИЙН ХИЙГ БУУРУУЛАХ АРГА ХЭМЖЭЭНИЙ ХАМТАРСАН ХОРООНЫ ХОЕРДУГААР ХУРЛЫН ТАЛААР

Монгол - Япон улс 2013 оны 1 дугаар сарын эхээр Нүүрстарагч багатай холбоотой түншлэлийн баримт бичгт гарын үсэг зурсан бөгөөд, Уг түншлэлийн хүрээнд хүлэмжийн хийг бууруулахад Япон улсын хөрөнгө оруулалтыг татах, Өндөр үр ашгтай төвлөлийг нэвтрүүлэх болонхийг Монгол улсад өий болгон байгаа юм.

Түншлэлийн хүрээнд хүлэмжийн хийн ялгаралтыг бууруулахад чөлгэсэн арга [...]

10 сар 4th, 2015 | Мэдээ | Comments Off on МОНГОЛ-ЯПОНЫ ХҮЛЭМЖИЙН ХИЙГ БУУРУУЛАХ АРГА ХЭМЖЭЭНИЙ ХАМТАРСАН ХОРООНЫ ХОЕРДУГААР ХУРЛЫН ТАЛААР | Read More >

МОНГОЛ-ЯПОНЫ ХҮЛЭМЖИЙН ХИЙН КРЕДИТ ОЛГОХ МЕХАНИЗМЫГ

Networking between Mongolian and Japan partners

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- Project developers who are interested into implementing and developing JCM project can register here. (not an official project registry)
- All materials will be confidential
- Visible for the interested partners if the registered account user allows to
- Invisible for the public

Thank you very much!

www.ncf.mn

www.jcm-mongolia.com