

Projects finding cooperation for the JCM

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Transfer of low carbon technologies and Project seeds finding for the JCM under the MOEJ Programme



- Study on applying low carbon technologies in developing countries
 (In-country need assessment, proposing improved specification, quantification of
 GHG emission reduction potentials and results, elaboration of MRV
 methodologies etc.)
- Diagnosis by low carbon technology experts for assessing potentials
 (For example; Improvement of Combined Heat and Power Plant (CHP) for EE,
 GHG and air pollution reduction)
- Environmental technology mission, match-making of private-private business, and workshop for mutual learning (With a view to developing JCM projects)
- In JFY2014, Cambodia, Lao PDR, Mongolia, Bangladesh, and Vietnam are included.









Photos by OECC

Overview of JCM Project Finding Cooperation Programme in Cambodia



Objective

To study appropriate Japanese low carbon technologies and search local potential project owners for the JCM project to respond Cambodian needs

JCM Projects in the pipeline

Solar power at SEZ



Development of 1 MW solar power generation systems at Special Economic Zone (SEZ) in Poi Pet

High-efficient rice milling



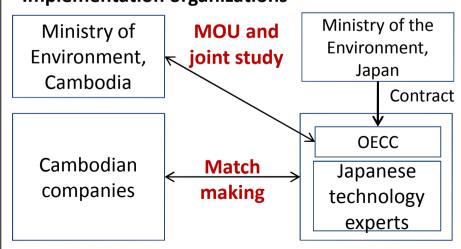
Installation of high-efficient and qualified rice polisher and whitener systems at rice mills in Batambang

Hotel energy management



Introduction of high-efficient facilities and energy management systems at 5 star hotels in Phnom Penh

Implementation organizations



Schedule

Year	2015	2016		
Month	Dec	Jan	Feb	Mar
Activity	Field sur and data collectio	n,	Business plan development and discussion	
	including energy a	energy audit		Report results

JCM Projects Development /NAMAs Capacity Building Activity in the Lao PDR

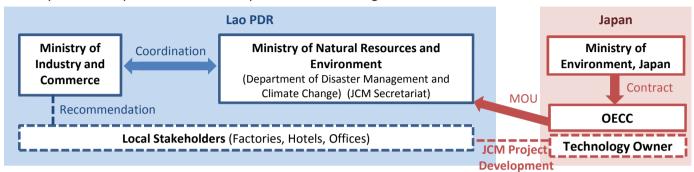
JCM Projects Development

Outline:

The Overseas Environmental Cooperation Center, Japan (OECC) is currently conducting the JCM projects development activity in order to promote concrete implementation of mitigation actions in the Lao PDR.

Implementation Structure:





List of Potential Projects (as of 27th Nov. 2014):

Counterpart	GHG Mitigation Method	Progress Situation	
Lao Cement	Utilization of Rice Husk at Cement Plant	Feasibility Study is being conduced by Taiheiyo Engineering	
Lao Beer Energy efficiency/Heat recovery at beer factory		Implementation structure and financial scheme is under	
		consideration	
Lao Plaza Hotel	Improvement of Air-conditioning system at hotel	On-site energy audit to be conducted in December 2014	
Lao Tobacco	Energy efficiency/Heat recovery at tobacco factory	On-site energy audit to be conducted in December 2014	
Dao Heuang	Energy efficiency/Heat recovery at instant coffee factory	On-site energy audit to be conducted in December 2014	
KPN Tapioca Anaerobic digestion of organic waste for cogeneration at tapioca factory		On-site energy audit to be conducted in December 2014	
Indochina Tapioca Anaerobic digestion of organic waste for cogeneration at tapioca factory On-s		On-site energy audit to be conducted in December 2014	

Schedule:

2014 Aug	Sep	Oct	Nov	Dec	2015 Jan	Feb	Mar
On-site	On-site	Technology	Technology	On-site	Development of	On-site survey (4)	Submission of
survey (1)	survey (2)	research in	research in	survey (3)	implementation structure/	Low Carbon Technology WS	the report
		Japan	Japan		business plan	Study Tour in Japan	

NAMAs Capacity Building Activity

Outline: Capacity building activity for NAMAs development has been conducted since 2012 in the Lao PDR. The focus activity for

FY 2014 is mitigation actions in the industry sector and quantification of its impacts in the MRV manner.

Schedule: The NAMAs Working Group meeting, which is consists of the member of the Technical Working Group on Climate Change,

is planned to be organized in December 2014 and February 2015, in order to share the knowledge and experience of

Japanese energy efficiency and environmental regulation activities.

Mongolia - Japan JCM Projects Finding Cooperation





1. Studies on Potential JCM projects in the prioritized sector

This programme will study appropriate Japanese low carbon technologies and search local potential project owners based on the discussion that the Mongolia Working Group on NAMAs, which consists of related ministries and relevant institutes for focused sector.

2. Match making between local stakeholders and Japanese project partners

- (1) Demonstration workshop in Mongolia in which Japanese companies make a presentation on their cutting-edge low carbon technologies
- (2) Study tour in Japan in order to observe some JCM potential technology candidates (state of the art facilities) which are listed up based on Studies of potential JCM projects in the prioritized sector, such as energy production transmission,



EE in factory (Heat Pump Technology)

EE in factory
(Heat Furnaces for Metal Production)

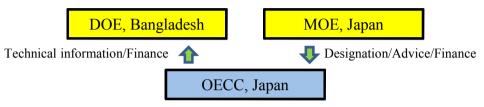
EE in factory (food and Beverage production)

EE in Power Plant



Bangladesh - Japan JCM Projects Finding Cooperation

The Joint Crediting Mechanisms (JCM) Projects Finding Programme is conducted between the Department of Environment, the Ministry of Environment and Forests (DOE) and the Ministry of the Environment, Japan (MOEJ) through an implementing organization, Overseas Environmental Cooperation Center, Japan (OECC).

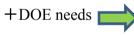




1. Studies on Potential JCM projects in the prioritized sector

This programme will study appropriate low carbon technologies and search local potential project owners for the JCM project in accordance with Bangladesh's needs (e.g., Technology Needs Assessment of Bangladesh). In order to make sure the project development, an in-depth study on financial scheme options, expected cost and financial requirements for the project will be conducted.

Power supply	Category	Technology	Scale	Availability	
Power generation	Gas-based	Advanced combustion turbine	Large	Short term	
		Natural gas combined cycle	Large	Already in use; up-scaling needed	
		Advanced natural gas combined cycle	Large	Short to medium term	
	Coal-based	Single Unit APC	Large	Short to medium term	
		Double Unit APC	Large	Short to medium term	
		Single unit IGCC	Large	Medium term	
		Double unit IGCC	Large	Medium term	
	Solar	Solar Home PV	Small	Already in use	
Power use	Domestic	Linear fluorescent lamp (LF)	Large	Already in use	
	Lighting	Compact fluorescent lamp (CFL)	Large	Already in use	



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l	Category	JCM potential menu				
		Electricity generation by Circulating fluidized bed (CFB) with coal and other waste fuel (biomass)				
	Porwer supply	Cutting-edge solar generation system				
		NAS battery for the electricity grid or facilities to smoothen fluctuation of the electricity and to reduce the black out.				
I		LED with battery to stand the black out				
P	Power use	Additional equipment for car battery to be able to reduce the GHG emission from cars				
		High spec super computer super computer				

Technology Needs Assessment (Bangladesh 2012)

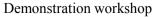
Bangladesh needs

2. Match making between local stakeholders and Japanese project partners

- (1) Demonstration workshop in Bangladesh in which Japanese companies make a presentation on their cutting-edge low carbon technologies
- (2) Study tour in Japan in order to observe some JCM potential technology candidates (state of the art facilities) which are listed up based on Studies of potential JCM projects in the prioritized sector.

JCM potential candidates (tentative)







Study tour in Japan



Vietnam - Japan JCM Projects Finding Cooperation

The Joint Crediting Mechanisms (JCM) Projects Finding Programme is conducted between the Ministry of Environment and Natural Resources (MONRE/DHMCC) and the Ministry of the Environment, Japan (MOEJ) through an implementing organization, Institute for the IMHEN and the OECC.

Additional support to activities under the Joint Committee

- ✓ Integrate JCM rules into domestic legal system
- ✓ Disseminate rules of procedure locally



MONRE/DHMCC

Technical information/Finance

MOE, Japan

Designation/Advice/Finance

IMHEN, Vietnam

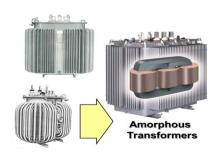
OECC, Japan

EE in Energy Distribution (with standard improvement)

CH4 emission reduction in (Waste and Agricultural Sector)

EE in hotel industries









Thank you!

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http://www.mmechanisms.org/e/index.html