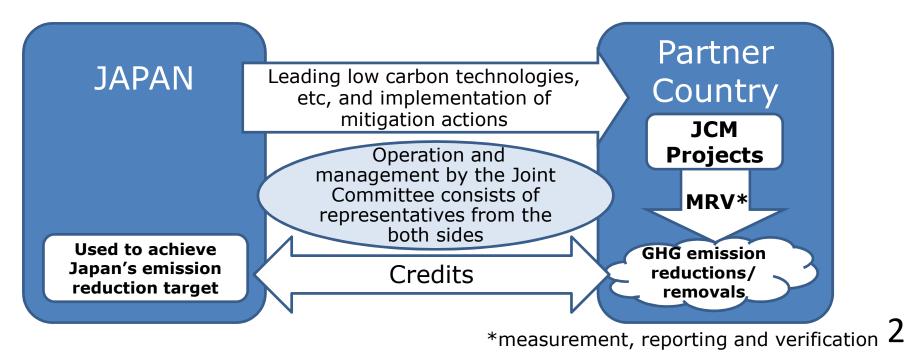
# Diffusion of Low-Carbon Technology through Joint Crediting Mechanism

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## **Basic Concept of the JCM**

- Facilitating diffusion of leading low carbon technologies, products, systems, services, and infrastructure as well as implementation of mitigation actions, and contributing to sustainable development of developing countries.
- Appropriately evaluating contributions from Japan to GHG emission reductions or removals in a quantitative manner and use them to achieve Japan's emission reduction target.
- Contributing to the ultimate objective of the UNFCCC by facilitating global actions for GHG emission reductions or removals.



## Statement by Prime Minister Shinzo Abe at the COP21



The second component of Japan's new set of contribution is innovation. The key to acting against climate change without sacrificing economic growth is the development of innovative technologies. (snip) In addition, many of the advanced low-carbon technologies do not generally promise investment-return to developing countries. Japan will, while lowering burdens of those countries, promote diffusion of advanced low carbon technologies particularly through implementation of the Joint Crediting Mechanism (JCM).

COP21.CMP11

### **JCM Partner Countries**

Japan has held consultations for the JCM with developing countries since 2011 and has established the JCM with Mongolia, Bangladesh, Ethiopia, Kenya, Maldives, Viet Nam, Lao PDR, Indonesia, Costa Rica, Palau, Cambodia, Mexico, Saudi Arabia, Chile, Myanmar and Thailand.



<u>Mongolia</u> Jan. 8, 2013 (Ulaanbaatar)

<u>Bangladesh</u> Mar. 19, 2013 (Dhaka)



<u>Ethiopia</u> May 27, 2013 (Addis Ababa)



Jun. 12,2013 (Nairobi)



Jun. 29, 2013

(Okinawa)

<u>Viet Nam</u> Jul. 2, 2013 (Hanoi)



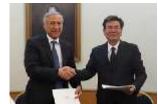
Lao PDR Aug. 7, 2013 (Vientiane)

Saudi Arabia

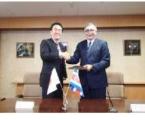
May 13, 2015



Indonesia Aug. 26, 2013 (Jakarta)



<u>Chile</u> May 26, 2015 (Santiago)



<u>Costa Rica</u> Dec. 9, 2013 (Tokyo)



<u>Myanmar</u> Sep. 16, 2015 (Nay Pyi Taw)



Jan. 13, 2014

Palau

<u>Thailand</u> Nov. 19, 2015 (Tokyo)



<u>Cambodia</u> Apr. 11, 2014 (Phnom Penh)

<u>Mexico</u> Jul. 25, 2014 (Mexico City)

Three (3) JCM projects between Indonesia and Japan, one (1) JCM project between Palau and Japan, two (2) JCM projects between Mongolia and Japan and one (1) JCM project between Viet Nam and Japan have been registered respectively.

# Japan's INDC (Excerpt)

#### Japan's INDC

O Japan's INDC towards post-2020 GHG emission reductions is at the level of a reduction of 26.0% by fiscal year (FY) 2030 compared to FY 2013 (25.4% reduction compared to FY 2005) (approximately 1.042 billion t-CO2eq. as 2030 emissions), ensuring consistency with its energy mix, set as a feasible reduction target by bottom-up calculation with concrete policies, measures and individual technologies taking into adequate consideration, *inter alia*, technological and cost constraints, and set based on the amount of domestic emission reductions and removals assumed to be obtained.

#### Information to facilitate clarity, transparency and understanding

O The JCM is not included as a basis of the bottom-up calculation of Japan's emission reduction target, but the amount of emission reductions and removals acquired by Japan under the JCM will be appropriately counted as Japan's reduction.

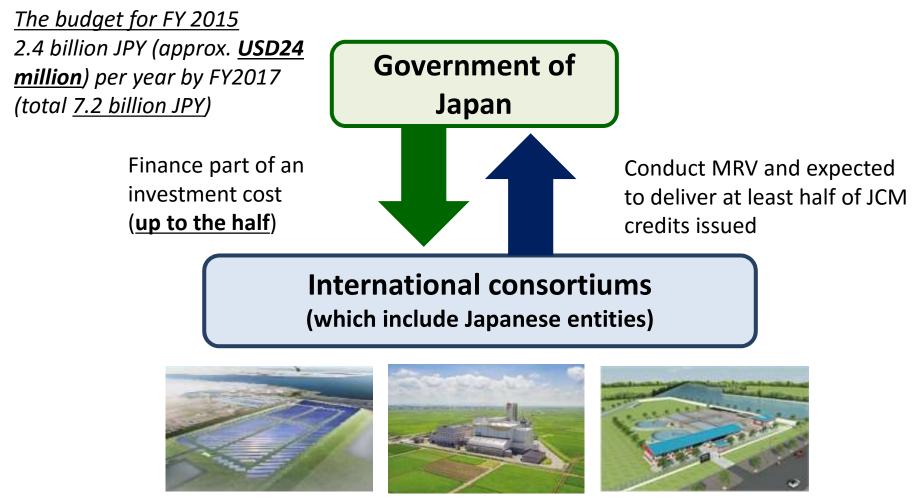
Reference information GHG emissions and removals JCM and other international contributions

O Japan establishes and implements the JCM in order both to appropriately evaluate contributions from Japan to GHG emission reductions or removals in a quantitative manner achieved through the diffusion of low carbon technologies, products, systems, services, and infrastructure as well as implementation of mitigation actions in developing countries, and to use them to achieve Japan's emission reduction target.

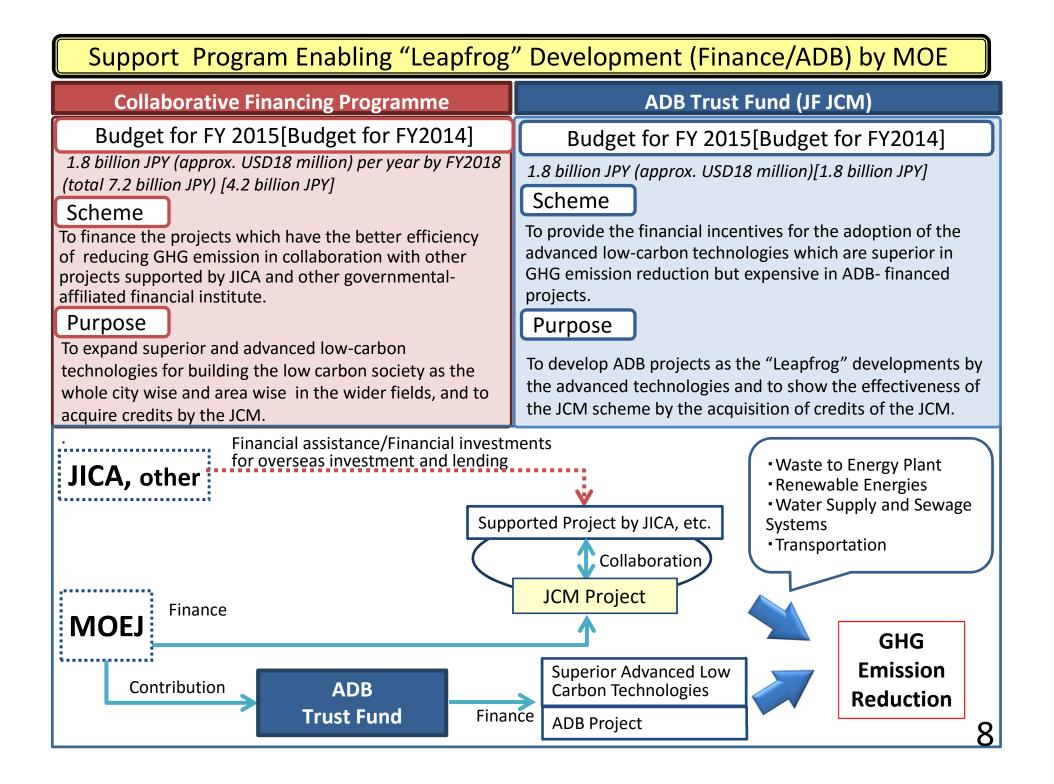
O Apart from contributions achieved through private-sector based projects, accumulated emission reductions or removals by FY 2030 through governmental JCM programs to be undertaken within the government's annual budget are estimated to be ranging from 50 to 100 million t-CO<sub>2</sub>

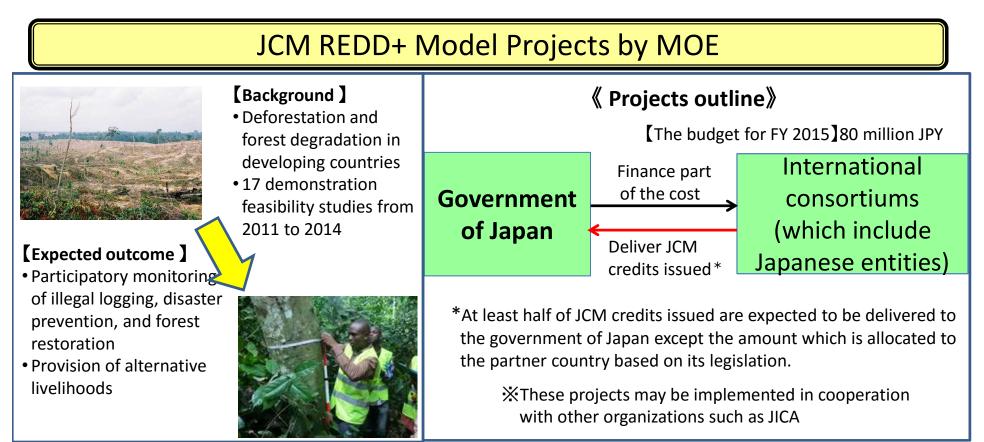
Partner Country	Number of Joint Committee meetings	Number of Approved Methodologies	Number of registered projects	Number of selected projects in JCM Financing Program and JCM Demonstration Projects
Mongolia	3	2	2	2
Bangladesh	2			3
Ethiopia	1			1
Kenya	1			1
Maldives	2	1		2
Viet Nam	4	5	1	9
Laos	1			2
Indonesia	5	10	3	19
Costa Rica	1			
Palau	3	1	1	3
Cambodia	1			1
Mexico	1			1
Saudi Arabia	1			
Chile				
Myanmar				1
Thailand				5
total	26	19	7	50

### JCM Model Projects by MOE



- Scope of the financing: facilities, equipment, vehicles, etc. which reduce CO<sub>2</sub> from fossil fuel combustion as well as construction cost for installing those facilities, etc.
- Eligible Projects : starting installation after the adoption of the financing and finishing installation within three years.





※REDD+ (Reducing Emissions from Deforestation and Forest Degradation in developing countries; and the role of conservation, sustainable management of forests and enhancement of forest carbon stocks in developing countries )

#### Purpose

Implement activities for REDD+ and use them for contributing to achieve Japan's emission reduction target through the JCM.

#### Project budget and implementation term

Up to 40 million JPY/year (fixed)

#### Eligible Companies

Japanese corporation(the representative of international consortiums)

#### Selected Projects in 2015

①Representative : Waseda University

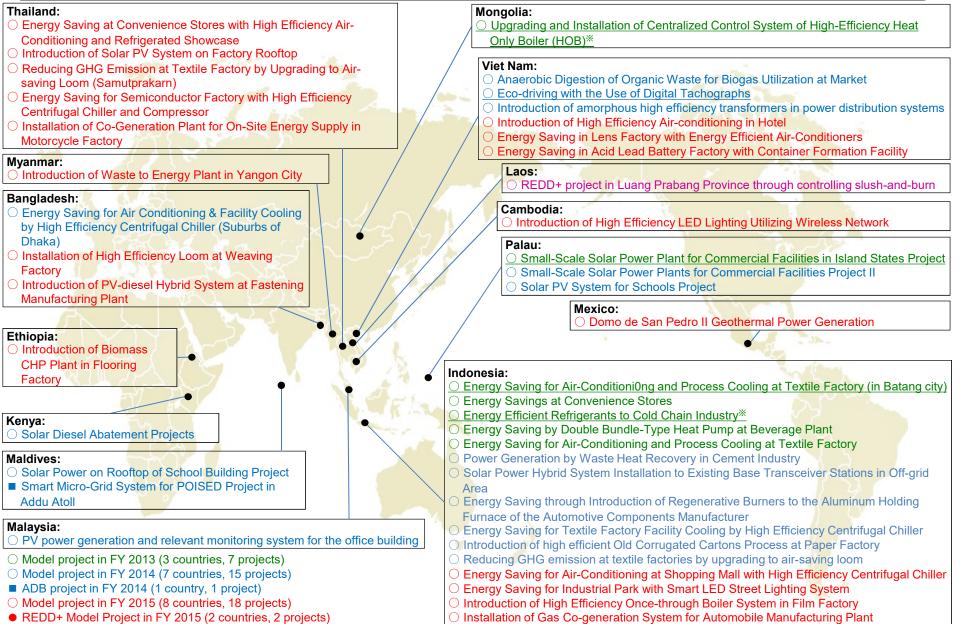
Partner country: Laos

- Project name : REDD+ project in Luang Prabang Province through controlling slush-and-burn
- 2 Representative : Kanematsu Corporation

Partner country : Indonesia

Project name : REDD+ project in Luang Prabang Province through controlling slush-and-burn

### JCM Financing programs by MOEJ (FY2013/2014/2015)



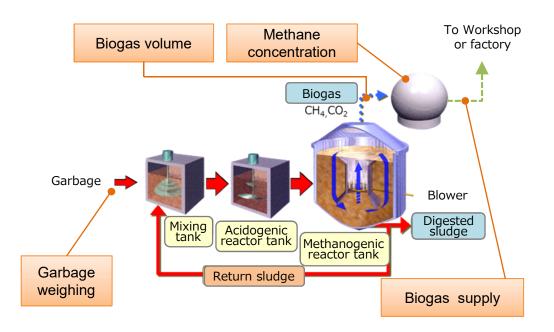
REDD+ project in Boalemo District

REDD+ Model Project in FY 2015 (2 countries, 2 projects)

#### Total 14 countries, 43 projects

The underlined projects have been registered as the JCM projects (7 projects) \* these projects account for 2 registered JCM projects respectively, as they're operating in different sites

# JCM projects and Pipeline projects by Kansai Business Sector



Biogas Utilization at Market in Viet Nam (Hitachi Zosen)



Energy-Efficient Air Conditioners in factory in Viet Nam (Daikin)