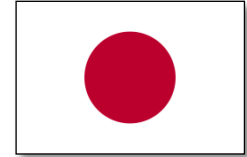




Workshop of Project Formulation Study through
City to City Cooperation in Ulaanbaatar, Mongolia



Joint Crediting Mechanism (JCM) and Project Study through City to City Cooperation

October 27, 2016

Hokkaido Government, Sapporo City

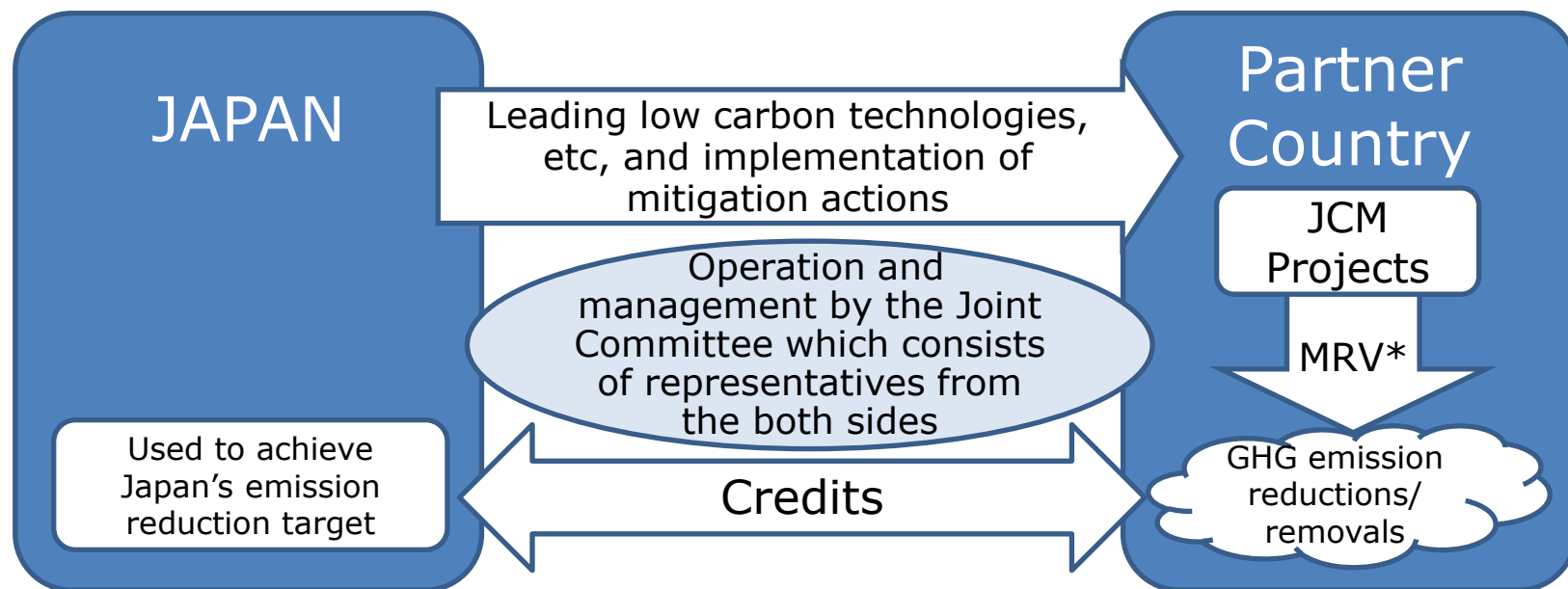
Hokkaido International Exchange and Cooperation Center (HIECC)

Overseas Environmental Cooperation Center (OECC)

Joint Crediting Mechanism (JCM)

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.

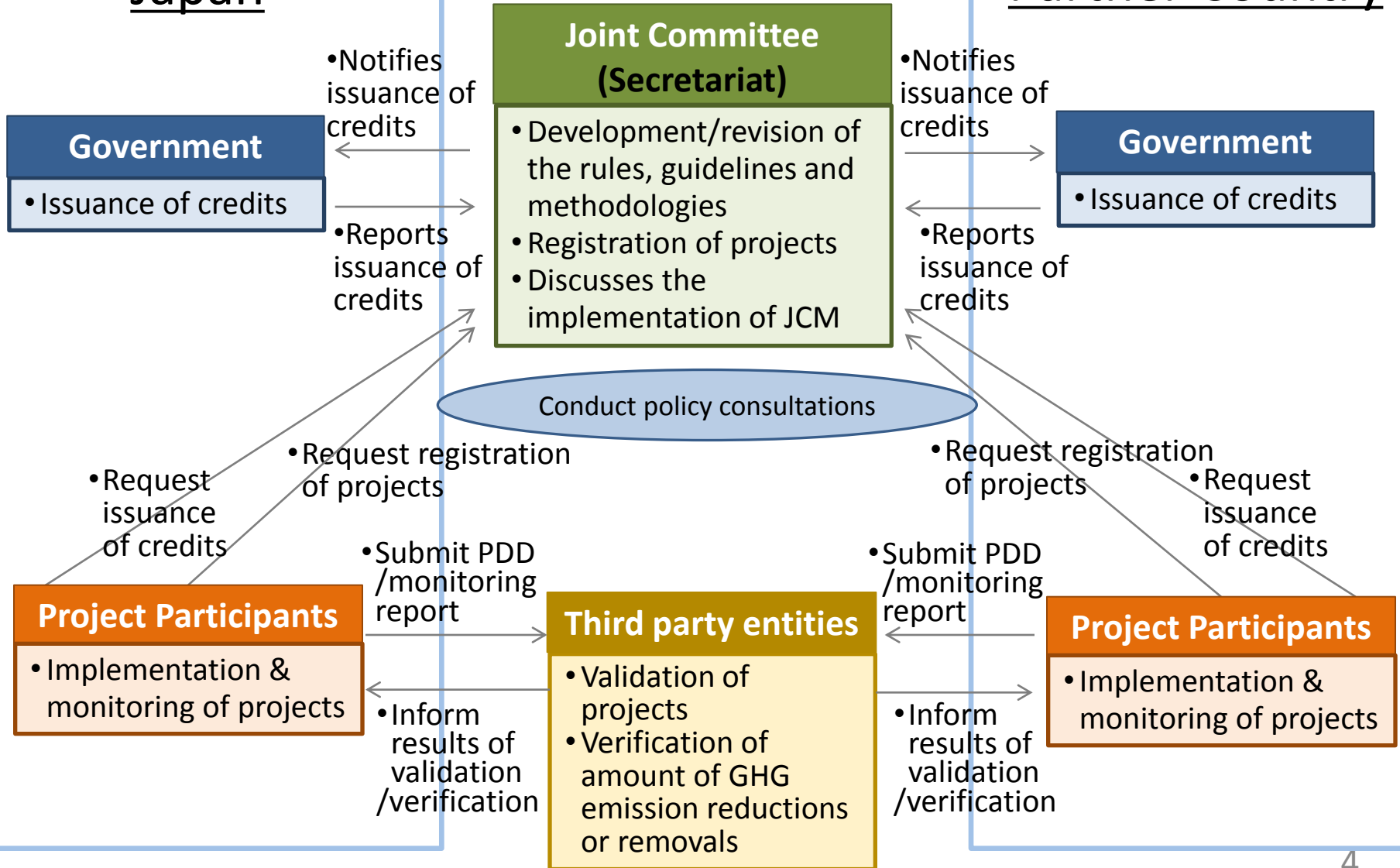


*MRV: measurement, reporting and verification

Scheme of the JCM

Japan

Partner Country



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.



Mongolia
Jan. 8, 2013
(Ulaanbaatar)



Bangladesh
Mar. 19, 2013
(Dhaka)



Ethiopia
May 27, 2013
(Addis Ababa)



Kenya
Jun. 12, 2013
(Nairobi)



Maldives
Jun. 29, 2013
(Okinawa)



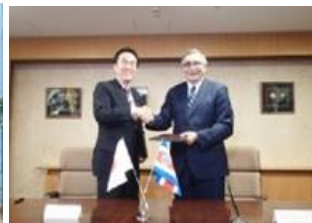
Viet Nam
Jul. 2, 2013
(Hanoi)



Lao PDR
Aug. 7, 2013
(Vientiane)



Indonesia
Aug. 26, 2013
(Jakarta)



Costa Rica
Dec. 9, 2013
(Tokyo)



Palau
Jan. 13, 2014
(Ngerulmud)



Cambodia
Apr. 11, 2014
(Phnom Penh)



Mexico
Jul. 25, 2014
(Mexico City)



Saudi Arabia
May 13, 2015



Chile
May 26, 2015
(Santiago)



Myanmar
Sep. 16, 2015
(Nay Pyi Taw)



Thailand
Nov. 19, 2015
(Tokyo)

➤ In addition, the Philippines and Japan signed an aide memoire with intent to establish the JCM.

JCM Model Projects by the Ministry of Environment Japan

The budget for projects starting from FY 2016 is 6.7 billion JPY (approx. USD 65 million) in total by FY2018

Finance part of an investment cost (**less than half**)

Government of Japan

✂ Includes collaboration with projects supported by JICA and other governmental-affiliated financial institute.

Conduct MRV and expected to deliver at least half of JCM credits issued

International consortiums
(which include Japanese entities)



- 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 the adoption of the financing and finishing installation within three years.

Project Study through City to City Cooperation

Background

Various Issues in Ulaanbaatar city are arising due to recent rapid population increase and sharp economic growth.

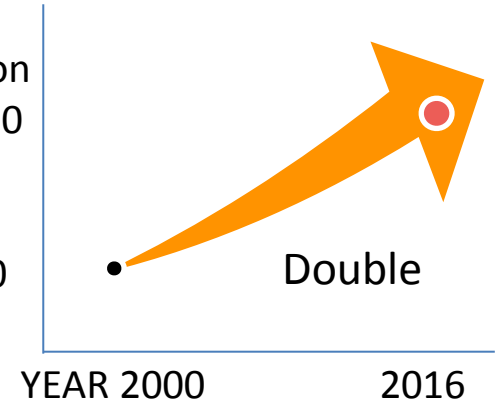
- Severe Air Pollution
(PM10 is 14 times in Japan & double in China)
- Tight Supply-Demand situation for Power System
- Waste Treatment, etc.

Population
1,350,000

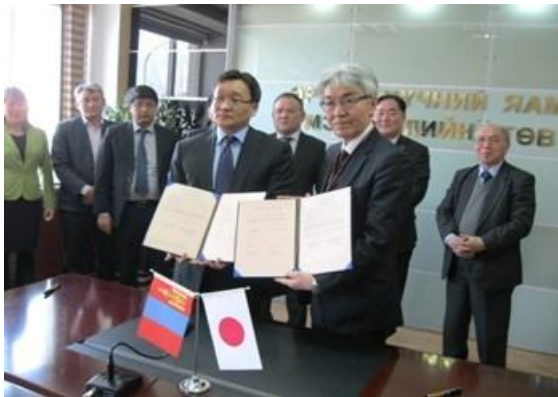
700,000

YEAR 2000

2016



Hokkaido Government / Sapporo City constructed the cooperative relationship with Ulaanbaatar City



「Memorandum Signing Ceremony between Hokkaido Government and Ministry of Energy Mongolia (Mar. 2015)



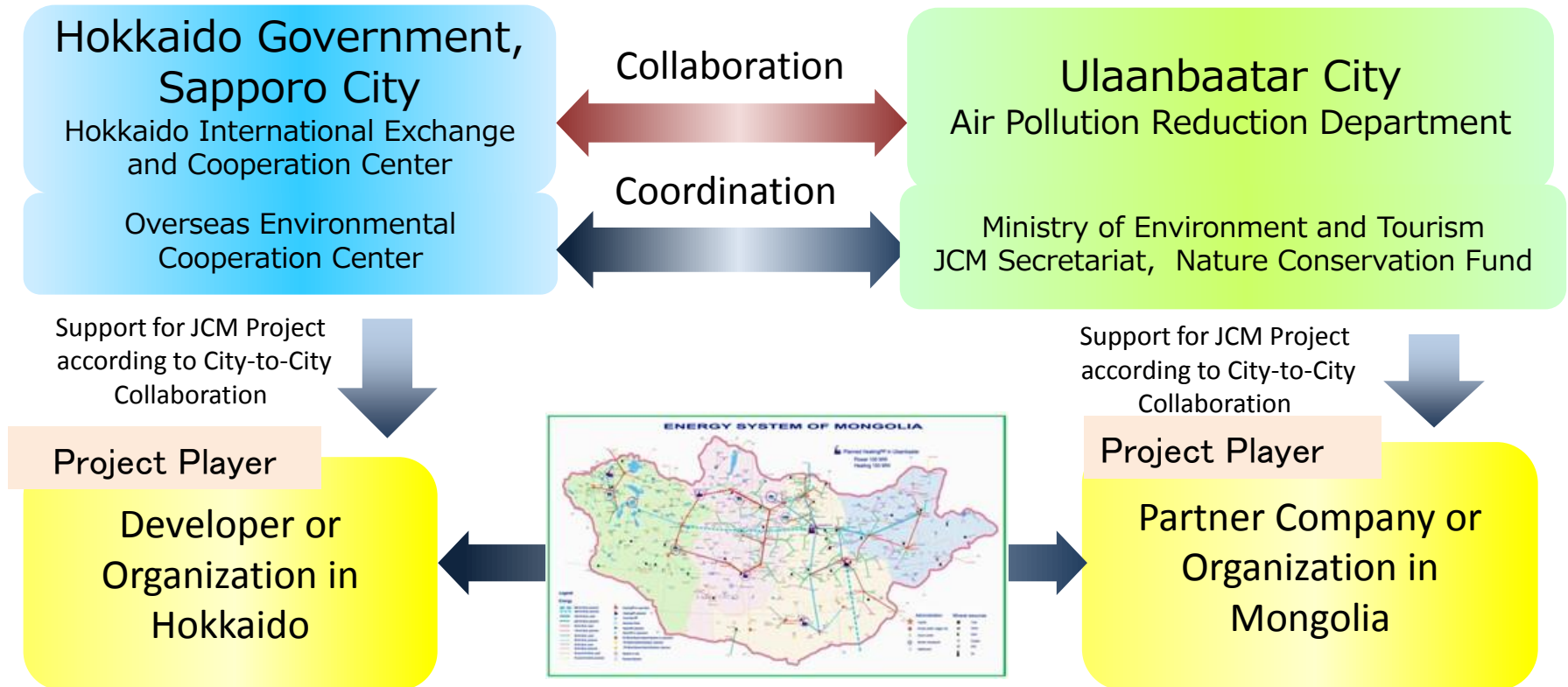
“Ulaanbaatar Declare (Jan. 2012)”
City of Sapporo & City of Ulaanbaatar



Further
Strong
Relationship

Vision

Since GHG is regarded as one of the current extraordinary weather, it is quite important to endeavor the GHG emission mitigation activity. Therefore, we re-recognize for the residence living in the Winter City that reduction of energy consumption and realization of urban city activity lowering the environmental impact should be the major issues, and we put in serious efforts to tackle the above-mentioned issues.



Action (JCM Project Formulation)

Renewable Energy Sector



Solar Power Generation & Power Storage System



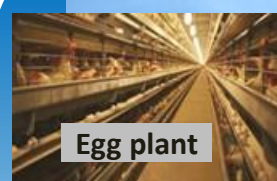
Large Capacity
Secondary Battery

Energy Saving Sector



**Introduction of Heat Pumps or
Thermal Storage Heater**

Waste Material Sector



Egg plant

Biogas Plant



Waste to Energy

Thank you for your attention

Overseas Environmental Cooperation Center (OECC)
on behalf of the Ministry of Environment, Japan (MoEJ)