## Japan Fund for the Joint Crediting Mechanism (JFJCM)

24 August 2016





## Joint Crediting Mechanism (JCM)

JCM is a bilateral carbon market mechanism to promote use of low carbon technology in host countries.







## Japan Fund for the Joint Crediting Mechanism

- JFJCM was established and announced by the Minister of the Environment, Japan and the President, Asian Development Bank on 25 June 2014.
- \$42.6 M have been contributed by MOEJ in 2014-2016
- The JFJCM provides financial incentives for adoption of advanced low-carbon technologies in ADB-financed projects.





## **JFJCM Eligible Countries**

- ➤ 16 countries for the development of the Joint Crediting Mechanism (JCM), 10 of which are ADB Developing Members.
- Mongolia was the first country to sign the bilateral document for the introduction of the JCM on 8 January 2013.



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## Use of JFJCM

**Grant** for Incremental cost of advanced low-carbon technologies

#### Sovereign Projects

 Finance to the governments and public sector entities, such as state-owned enterprises

# **Interest subsidy** to ADB-financed loans

#### **Non-Sovereign Projects**

 Direct financial assistance to private sector projects to leverage a large amount of finances from commercial sources



FJCM

## Use of JFJCM

#### Sovereign Projects

- Used for equipment, training for operation of advanced technology, civil works
- > maximum of:
  - (i) \$10 million or 10% of the project cost, whichever is lower; and
  - (ii) \$5 million if the project cost < \$50 million.

#### Non-sovereign Projects

- Used for reduction of interest rate of ADB's loan
- > \$10 million or 10% of the project cost, whichever is lower



## **Eligible Projects and Technologies**

#### **Eligible Project**

- Project co-financed with an ADB or ADB administered funds.
- Additional financing to ADB ongoing project.

#### **Eligible Technology**

- Advanced low carbon technologies that reduce greenhouse gas (GHG) emission including CO<sub>2</sub> from energy source.
- The technologies must have a proven implementation and operation record of its technical effectiveness.





## **JFJCM Approved Projects**

#### Solar Power Project in Maldives

Additional financing of \$5M Grant to Addu atoll subproject
Install advanced battery system and energy management system (EMS) for smart micro-grid system

#### Distribution Project for CHP in Mongolia

\$10M approved by MOEJ in November 2015Install energy efficient transformers

#### Regional-Capacity Development Technical Assistance



## **Case study: Maldives**

Install smart micro-grid technology with advanced battery system and energy management system (EMS)



Increase Solar PV penetration Capacity in the island

- ✓ Suppress PV and load fluctuations
- ✓ Optimize diesel generator operation





## **Case study: Mongolia**



#### Amorphous Transformer (AMT)

- widely used in distribution network system in developed countries
- Reduces power loss (no-load loss) and improves energy efficiency of transformers

https://www.jcm.go.jp/vn-jp/methodologies/24/attached\_document1





## **Other Eligibility Criteria and Requirements**

#### **JCM** Application

- Defining the JCM Methodology;
- Preparation of the Project Design Documents (PDD);
- Validation by Third Party Entities (TPEs);
- Registration of the Project with the JCM;
- Monitoring and verification of GHG emission reduction;
- Issuance of the JCM credits and delivery to both governments

#### Life cycle cost consideration on the bidding

- The evaluation and qualification criteria will incorporate the technical performance related criteria which may affect life cycle costs.
- Example: fuel cost, energy loss amount as operation cost, cost of spare parts or replacement of the equipment.



## Life Cycle Cost Consideration on Bidding



## **Fund Process of ADB Projects**



### **Contact us**

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