Overview of technology aspects of NAMAs in a MRV manner

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Overseas Environmental Cooperation Center, Japan (OECC)
Outline of the Presentation

1. Background of the Low Carbon Technology Workshop
   - NAMAs in a MRV manner
   - the Joint Crediting Mechanism (JCM)

2. Expectations to the Workshop
1. Background of the Low Caron Technology Workshop
NAMAs in a MRV manner

• Non-annex I countries (including Mongolia) is expected to voluntarily contribute to mitigation to climate change through Nationally Appropriate Mitigation Actions (NAMAs).
• For NAMAs, non-annex I countries (including Mongolia) will be supported by technology, finance, and capacity-building.
• Mongolia submitted its NAMAs to the UNFCCC, including
  ➢ Energy supply
  ➢ Energy efficiency improvement in industries
  ➢ Promotion of fuel efficient vehicles
  ➢ Increased cattle productivity
  ➢ Improved forest management
• MEDG and MOEJ started capacity-building cooperation since 2012 in the energy supply sector
Institutional Arrangement

**MEGD, Mongolia**
- Designation/Advice
- NAMA Advisory Committee
  - Relevant Ministries and Experts
  - Mongolia Expert Team (base study & draft preparation/secretariat function)
    - Climate Change
    - Others
- Technical Advice/Training/Finance

**MOE, Japan**
- Designation/Advice/Finance
- NAMA Advisory Committee
  - Recommendation
- Japan NAMA Support Team (base study & draft preparation/secretariat function)
  - OECC
  - Expert (Consultant)
Process of the survey to find the useful technologies for NAMAs

<1> Picking-up appropriate technologies from long-list and other source
<2> Short-listing
Long list $\rightarrow$ Short list

finding out the appropriate technology

**Short-listing process**
- Surveying on needs and potentials of GHG mitigation technologies in Mongolia
- Interview with certain stakeholders and collecting technology information. Create a “long list”.
- Research in Mongolia
- Revising the long list

**Selecting the appropriate technologies**

Information collection through trade fair, Interview/meeting with stakeholders, utilization of database, etc.

**Determining useful mitigation technologies under NAMAs**
Efforts to address needs for technology transfer

**Study Tour to Japan**
- Studying technologies useful for NAMAs
- Coordination between Mongolia and Japan for mitigation action seeds development
- Hands-on experience of mitigation technologies

**Environmental Technology Mission**
- Identifying TT potential for Mongolia
- Matchmaking Session
- Follow up activities in view of applying GOJ’s subsidy programmes

Visit to Power Plant Training Center and Dialogue with Technology Experts

Technology WS in Jan 2013 in Ulaanbaatar
Match-making between Mongolian stakeholders and Japanese low carbon technology experts.

Joint WS for NAMAs by 4 countries
2. Recent development on Joint Crediting Mechanism (JCM) between Mongolia and Japan
The Joint Crediting Mechanism

- To facilitate 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.
- To appropriately evaluate contributions to GHG emission reductions or removals from developed countries in a quantitative manner, through mitigation actions implemented in developing countries and use those emission reductions or removals to achieve emission reduction targets of the developed countries.
- To contribute to the ultimate objective of the UNFCCC by facilitating global actions for emission reductions or removals.
Joint Crediting Mechanism

• In January 8, 2013, Mongolia and Japan concluded a Memorandum of Understanding on JCM at Ulaanbaatar.

• April 11, 2013, the 1st Joint Committee (JC) was held by Mongolia and Japan

• May 23, 2013, the JC adopted basic rules (guidelines etc)

• September 25, 2013, the JC adopted document formats (such as application formats for project registration)

http://www.mmechanisms.org/initiatives/mongolia.html#first_jc_docu
### Menu of Activities

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<th>Capacity Building</th>
<th>Information Platform</th>
<th>Financial Scheme for Project Preparation and Implementation</th>
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<td>● Strengthen the capacities of government officials of Mongolia in the JCM</td>
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<td>● Assist the development of MRV methodologies for the JCM in Mongolia</td>
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<td>● Support Candidate for Third Party Entity (TPE) for the JCM</td>
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<td><strong>NAMAs</strong></td>
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<td>● To support identifying BAU and NAMA Scenarios, and NAMA as a potential JCM project</td>
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<td>● To support drafting domestic guidelines for a NAMA selection and a MRV, domestic institutional arrangement for NAMA implementation</td>
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<td>● Technology Survey on low carbon development and study tour to Japan</td>
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<td>● JCM project seeds development</td>
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<td><strong>JCM Project Planning Studies</strong></td>
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<td>● 10MW-scale solar power plant and rooftop solar power generation system (Shimizu Corporation)</td>
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<td><strong>JCM Methodology Demonstration Studies</strong></td>
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<td>● Centralization of heat supply system by installation of high efficiency heat only boiler (HOB) (Suuri-Keikaku Co., Ltd.)</td>
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<td><strong>JCM Feasibility Studies</strong></td>
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<td>● 10MW-scale solar power generation for stable power supply (myclimate Japan Co. Ltd)</td>
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<td>● Energy conservation at cement plant (Taiheiyo Engineering Corporation)</td>
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<td>● Improvement of thermal insulation and water cleaning/air purge at power plant (Kanden Plant Co., Inc.)</td>
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3. Expectations to the Workshop
# Roadmap for the JCM

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<th>JFY2011</th>
<th>JFY2012</th>
<th>JFY2013</th>
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| Governmental Consultation | Signing Bilateral Document | JCM Operation  
Establishment of the JC  
Development of rules and guidelines |

**Feasibility Studies**
- Explore potential JCM projects/activities
- Study feasibilities
- Develop MRV methodologies

**MRV Demonstration Projects**
- Apply proposed MRV methodologies to projects in operation
- Improve MRV methodologies by using them
- Finalize MRV methodologies

**Capacity Building**
- UNFCCC negotiations on Framework for Various Approaches

**JCM Demonstration Projects**
- Further improve the institutional design of the JCM, while starting JCM operation
Expectations

• To identify and discuss possible measures and technologies under the Nationally Appropriate Mitigation Actions (NAMAs) in the Energy industry/supply sector

• To discuss current government policies and possibilities to link existing policies with NAMAs

• To facilitate networking among Mongolian and Japanese private sector for possible cooperation in the technology transfer

• To discuss further actions needed to implement NAMAs
Positive Results from the January WS

January WS
• More than 200 participants from Mongolia (including Ministries, Private Sector, Academia)
• 5 Japanese companies with technology experts
• Match-making dialogue

Careful follow up by the MEGD and the OECC

MOEJ/GEC’s Subsidy Programme for Feasibility Study
• Project seeds from “match-making dialogue” applied.
• Some of the project seeds were successfully adopted!!

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<tr>
<th>FS Project Name</th>
<th>Mongolian Company</th>
<th>Japanese Company</th>
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<td>Energy conservation at cement plant</td>
<td>EREL</td>
<td>Taiheiyo Engineering Corporation</td>
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<tr>
<td>Improvement of thermal insulation and water cleaning/air purge at power plan</td>
<td>CHP 3 and CHP4</td>
<td>Kanden Plant Co., Inc.</td>
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Thank you very much!

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