Northeast Asia Power System InterconnectionIntroduction of Technical Assistance and Financing Aspect

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Introduction of Technical Assistance

Mongolia: Strategy for Northeast Asia Power System Interconnection



Outline of Technical Assistance

Purpose:

Prepare action plan and road map for power interconnection in Northeast Asia

- TA amount : \$1.75 million
- Implementation period:
- 1 April 2016 to 30 April 2018 (25 months)
- Executing agency:

The Ministry of Energy, Mongolia



Consulting Services

- Consulting firm (sets of international 27 person months and national experts 30 person months)
- Individual country coordinator for the PRC, Japan, ROK and Mongolia – 5 person months each
- Please look for more detailed information at: http://www.adb.org/projects/48030-001/main



Current Implementation Status

- Consulting firm: Inviting interest for consulting services—deadline for submitting expression of interest is 30 September 2016.
- Individual consultants: Under preparation of long list.
- Shortlisting of consulting services will be done by the Ministry of Energy and ADB



We are looking for.....

- Interested partners to be part of a regional knowledge and investment platform for Northeast Asia power interconnection through financial and/or non-financial contributions
- For example, potential roles could be......
 - Review and provide comments on the reports prepared by the consultants
 - Co-host/organize the regional/international workshops



Financing Aspect



Potential Business Entity

Korea-Japan/China-Korea:

JV of power utilities, transmission companies, and/or manufacturers of transmission lines



Example: Case of China-MongoliaInterconnection

Purpose: Power export to China using Mongolia's renewable sources

Business entity: JV of both Chinese and Mongolian companies or 100% Chinese capital company incorporated in Mongolia (i.e., transmission company, utility company, transmission suppliers, and solar and wind manufactures)



Example: Case of China-Mongolia Interconnection-Financial Arrangements

Equity (i.e., 30% of total project cost) from JV Debt financing (i.e., 70% of total project cost) by:

- (i) bilateral financial institutions (i.e., China Exim),
- (ii) international financial institutions (i.e., ADB– private sector lending arm, EBRD, and IFC), and
- (iii) commercial banks.



Example: Case of China-Mongolia Interconnection—Other Potential Key Players from Mongolian Side

- Ministry of Environment–EIA
- Local government–land usage rights and water access
- Energy Regulatory Commission—construction and operation permissions
- Ministry of Energy—align with energy policy
- Others—authorities related to business registration, tax and duties, and legal (arbitration)



Example: Case of China-Mongolia Interconnection-Other Potential Key Players from Chinese Side

- National Development Reform Commission import permit??
- National Energy Agency—align with national energy development policy??
- Others— (i) standardization of grid code, (ii) cross-country transmission corridor permission, (iii) electricity price import regulation??, and (iv) tax authority.



Typical Due Diligence Imposed by Financiers

- Environment safeguard should meet
 ADB's safeguard policy requirements
- Social safeguard land acquisitions
- Technical aspects
- Project and corporate financial analysis
- Economic analysis



Potential ADB Roles

- Financing arranger: Leverage on ADB financing to bring more financing partners
- Catalyst between JV and Governments: Facilitating business activities to the government, when needed
- Advisor for both JV and Governments:
 Provide legal and financial advices through in-house knowledge and technical assistance



THANK YOU!!

For further information

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