

## INVITATION FOT BIDS

### Technical Consultant for Power Systems

**Publication date:** 20<sup>th</sup> May 2022

**Submission date:** 26<sup>th</sup> May 2022

**Country:** Mongolia

#### Description of procurement:

The consultant will focus on (i) the development of wind and solar resources in South Gobi; (ii) Mongolia People's Republic of China (PRC) interconnection; (iii) the business cases of exporting renewable electricity from Mongolia to the PRC and the possibility of linking such exports to the planned trade between the PRC and the Republic of Korea (ROK); (iv) underlying policy, regulatory and electricity market environments in Mongolia, the PRC and the ROK; and (v) evaluating other opportunities for using the South Gobi Renewable Energy resources, such as for the production of green hydrogen either for exports to the PRC or Mongolia's domestic use. The consultant will assist Mongolia to carry out the necessary planning and develop associated business models. The consultant will continue and intensify dialogue between the potential trading partners and among various regional stakeholders on interconnectivity development. The consultant will also contribute to the development of project investment pipelines to be financed by ADB.

#### Scope of Work:

The Consultant will be required to:

- (i) Collect data on Mongolian site conditions for infrastructure planning.
- (ii) contribute to conceptual design for the renewable energy facilities and the transmission infrastructure to pool the power and deliver to the Mongolian border.
- (iii) collect data on domestic market conditions including qualified contractors, materials supply, and costs.
- (iv) provide input on the legal and regulatory analysis.
- (v) contribute to analysis of connecting new renewable generation in the South Gobi to the existing Mongolian 220 kV transmission network and recommendations of grid system capacity to absorb and manage additional variable renewable energy contributions.
- (vi) review and validate outputs of consulting firm's recommendations against domestic conditions.
- (vii) provide written inputs to relevant report sections; and
- (viii) any other technical tasks needed to support the overall TA analysis.

#### Qualification Criteria:

The expert should have a postgraduate degree or equivalent in electrical engineering with at least 7 years of experience in power system planning, transmission network analysis, project feasibility studies, power system master planning studies, substation designs, overhead line routing, developing grid codes/standards, and integration of renewable energy into the grid. The person should be conversant with power system analysis software, including DigSilent, PSSE, etc. It will be beneficial if the expert has experience of the sector regulation to plan for the project to align with the relevant regulation in Mongolia, the PRC and the ROK, and to identify and highlight barriers and propose mitigation measures necessary for the project.

For more information, please email to [info@tenderingprojects.es](mailto:info@tenderingprojects.es)