

Project Summary

Project Background

Mongolia still has abundant untapped resources of renewable energies to improve the electricity and heat supply in rural and urban areas. The decision of the Mongolian parliament to extend the national grid and the introduction of a RE Feed-in Law has improved the possibilities to enhance the use of grid-connected renewable energy sources and to attract private investors. Solar thermal applications are perceived as highly recommendable for heating purposes. However the lack is that the previous knowledge to promote grid connected renewable energy sources and solar heating is still limited with government and private institutions. Furthermore fundamental data are and implementing regulation is missing.

Project Objectives

The purpose of the project is to enhance the utilization of locally available renewable energy (RE) resources, mainly solar energy, hydropower and wind, by improving the technical and structural pre-conditions and to strengthen market-driven mechanisms for RE dissemination in urban and rural areas.

Project Activities

- Assistance in energy policy advice including development of rules and regulations for the implementation of the RE-law;
- Capacity building of professionals including both technical and commercial aspects, e.g. project management of RE systems (wind, PV, hydropower, solar thermal), site related resource analyses in the field of wind and water, operator models and economic analyses;
- Support in the creation of a national RE-expansion plan including activities like the determination of the hydropower potential;
- Technical advise and know-how transfer in site related resource analyses in wind energy - four sites exemplary sites have been selected and assessed based on the strategic criteria of reducing grid losses, demonstrating technical standards, reducing dependency of power import and optimizing ;
- Elaboration of a heating concept for urban centres in rural areas using RE technologies (solar thermal appliances, geothermal, heat pump);
- Development and establishment of operating structures for IPPs;
- Two hydro power plants (110 + 150 kW) + distribution grid to supply 5 soum centres are being constructed and commissioned financed by the Dutch-German Energizing Development Programme to supply approx. 2300 households with electricity;
- Business Trainings to develop income generation activities using electricity in Zavkhan Province (app. 80 people trained).

Services Provided

- Policy advisory services on the implementation of the RE law, on a national RE expansion plan
- Know-How transfer on site assessment, operation structures for IPPs
- Elaboration of a heating concept for urban centres using RE technologies
- Supervision of the construction of 2 hydropower plants and a regional grid
- Productive Use promotion
- Training of local experts and organisation of study tours
- Project management, backstopping and administration

Mongolia

Utilization of Renewable Energies, Phase III

Client

German Agency for Technical Cooperation (GTZ)

Duration

10/2007 - 09/2010

Personnel

Total 120.5 PM including

- Team Leader (15 PM)
- Local Team Leader (36 PM)
- International Experts (15 PM)
- Regional Experts (18 PM)
- Local Experts (35 PM)
- Backstopping (1.5 PM)

