

Project Proposal ¹¹

Project title	Mungash Small Hydro Power Plant, 170 kW
Project background	In the “National Program for Renewable Energy /2005-2020/” approved by the State Great Khural’s Resolution No 32 June 9, 2005, it was pointed out to perform feasibility studies of hydropower plant construction for electrification of selected 16 soum centers by using hydro energy resource. The pre-feasibility study of the project was implemented by the National Renewable Energy Center in May 2005.
Production scale	Approx. 170 kW
Market orientation and market analyses, market survey	According to the National Program for Renewable Energy, same approach could be applied to the electrification of 15 soum centers in Mongolia.
Cooperation mode:	Loan
Total investment	0.2 million US\$
Requested Investment from foreign partners	Loan with an interest rate of 6% and term of 10 years
Project venue, construction venue:	Mungash river, Ulaan-Uul soum, Khuvsgul aimag
Occupation area and construction area	Reservoir height - approx. 24 m Assumed reservoir area - 58.4 km ²
Estimated economic benefit	Annual electricity production - 424 MWh; Annual revenue - 35,275 US\$ (based on 8.3 US\$/kWh); Annual O&M cost - 2,822 US\$; EIRR - 13.5% (after tax paid); NPV@6% - 0.43 million US\$.
Investment recovery period	8.5 year without CO ₂ offset
	Energy Research and Development Center of Ministry of Fuel and Energy,
Ownership	State owned
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