

Construction of Grodno HPS on the river Neman

A. Project Opportunity Description:	
A1. Project Name:	
Construction of Grodno HPS on the river Neman	
a. Short name:	
Construction of Grodno HPS on the river Neman	
b. Full name:	
Construction of Grodno HPS on the river Neman	
c. Summary description:	
Construction of hydroelectric power station on the river Neman.	
A2. Progress Status:	
The feasibility study of the project has been developed (2002).	
A3. Organizations involved and their roles:	
1) «Belnergosetproekt» - development: fax: (+375-17) 236-12-16, S.R. Yanovich, Head Engineer, tel.: (+375-17) 236-12-41; 2) Concern «Belenergo» (RUP «Grodnoenergo») - implementation: fax: (+375-17) 218-26-39, L.P. Batian, Head of the Strategy Department, tel.: (+375-17) 218-23-40; 3) Ministry of Energy: 14, K. Marx Str., Minsk, 220030, Republic of Belarus. Rybakova Ekaterina Alekseevna, tel.: (+375-17) 218-21-45, e-mail: rybakova@min.energo.net.by	
A4. Project Description:	
The construction of low head hydropower unit is envisaged, which includes the following items: the building of HPS with closed machine hall, ferro-concrete overflow dam with flat sectional bolts for dump of freshet waters, single-chamber navigable sluice to provide river navigation. The station will have the following characteristics: the installed capacity - 17 MW; quantity of turbines - 5; quantity of generators - 5; mark of the lower head of water level - 102 m; calculated head - 7 m. For transmission of produced electric power into energy system the open switchgear with two 10 MVA transformers and 110 kV gas-insulated switches, and the building of closed 10 kV switchgear will be provided. The approximate date of the beginning of the construction - 2007; financing: own and borrowed funds. Countries of preference: Austria, Slovakia, Switzerland.	
A4a. Project cost (mln USD):	
33.6	
A5. Background / history / overall programme / related or similar projects:	
The facility RUP «Grodnoenergo» was established in 1963. It involves Grodno heat power station, oblast and regional heat and electric networks. Electric power installed is 184,5 MW. The length of heat network is 475 km, the length of electric network is more than 37 thousand km.	
A6. Environmental impact summary:	
The environmental examination of the feasibility study of the project was made.	
A7. Possible obstacles/ problems/ risk assessment:	
Has good grade of stability.	
A8. Term of realization / term of recoupment (years):	
6,6 / 12,6	
A9. Project's branch:	
Electroenergetics	
B. Capital Cost Items (additional requirements for project):	
B1. Project physical components	B2. Capital cost (mln USD)
Equipment (Austria, Slovakia, Switzerland, Germany) + construction:	16.8
Total cost of the project:	33.6
C. Capital Resources Available from Sponsors/ Proposers:	

C1. Resources 'in kind', grants, investments, equity / ownership, etc.		C2. Amount (mln USD)
Own funds:		16.8
D. Required Financial Assistance:		
D1. Financing gaps, type of financial assistance required:		
Crediting.		
D2. Sources of finance	D3. Type of investment	D4. Amount (mln USD)
Foreign investment funds:	Credit:	16.8
D5. Financial/ International Institution Name:		
E. Demand (users) and revenues:		
E1. Type of users/ markets, volumes, pricing, revenues, quantifiable benefits/ savings:		
Production of cheap electric power with the use of water-power resources of the river Neman for partially covering the needs of Grodno energy complex.		
E2. Revenues (Sales)	E3. Amount (mln USD)	
The revenues depend on acting tariffs for energy:	7.0	
F. Operating and Maintenance Costs:		
F1. Cost components, strategies for cost recovery, operating organisations, subsidies, etc.:		
F2. Cost Item	F3. Amount (mln USD)	
Fuel, water, amortization, wages, taxes, etc.:	4.1	
G. Net Income Value:		
G1. Net Income Value	G2. Amount (mln USD)	
Net income:	2.9	
H. Project information source:		
H1. This form was completed by:		
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H2. Organisation (address):		
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H4. Date:		
March, 2007		
H5. Supreme Organization:		
Ministry of Energy		