



MANNVIT
ENGINEERING

Project example:

Búðarháls Hydroelectric Power Station

The Búðarháls Hydroelectric Power Station is located near the junction of the two rivers: Þjórsá and Tungnaá, at 64, 24' north, harnessing the Tungnaá river. The project is now in the design and tendering phase and planned commissioning is in late 2011.



Technical data:

Client: The National Power Company – Landsvirkjun

Installed capacity: 80 MW

Turbines: 2 Kaplan units, vertical axis

Gross head: 40 m

Harnessed discharge: 240 m³/s

Annual energy production: 585 GWh

Sporðalda dam: Total length 2,300 m

Water reservoir: Sporðalda reservoir, 337 m.a.s.l, storage capacity of 335

million m³

Headrace tunnel: Width/height: 11/15 m; length 4 km

Pressure shaft: 2 sloped pressure shafts, \varnothing 5.6 m; length 60 m

Tailrace canal: 400 m

Powerhouse L/W/H: 55/23/28 m

Mannvit services:

Feasibility study and pre-design: Geology, hydraulic, civil, mechanical, electrical, design memorandum. Penstock and gate equipment: Tender design and tender documents. Participation in evaluation of tenders and procurement. Review of detail design.



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