



Buja HPP cascade

Imereti Region, river Buja



გრძელ ენერჯი ჯგუფი
საინჟინერო-საკონსულტაციო კომპანია
GROSS ENERGY GROUP
ENGINEERING-CONSULTING COMPANY

Information

Site Location:

Imereti Region, river Buja.

GPS coordinates:	#	X/Y	Weir location	Power house location
	Buja 1 HPP	X	241081.4	240535.28
		Y	4607008.6	4607597.9
	Buja 2 HPP	X	241188.7	241098.9
		Y	4606211.3	4606973.4
	Buja 3 HPP	X	242441.8	241175.4
		Y	4605061.9	4606166.3

Name of the River:

Buja

HPP Type:

Diversion, Run-off-the-river

Site Description:

Buja HPP cascade consists of Tyrolean weirs, diversion pipelines, silt basins, turbine conduits, power houses, pressure shaft, penstock, tailrace channels.

Buja 1 HPP - Head building conveys Tyrolean weir, height – 2.5 m, which ensures maximum water discharge, reinforced concrete water intake L=4.0m and silt basin with sluice. Free flow supply pipeline, diameter – 0.85m, length – 1.98 km. Water is diverting to the power house. Turbine conduit is represented by metal faced tunnel.

Buja 2 HPP - Head building conveys Tyrolean weir, height – 2.5 m, which ensures maximum water discharge, reinforced concrete water intake L=5.0m and silt basin with sluice. Free flow supply pipeline, diameter – 0.85m, length – 1.06 km. Water is diverting to the power house. Turbine conduit is represented by metal faced tunnel.

Buja 3 HPP - Head building conveys Tyrolean weir, height – 2.5 m, which ensures maximum water discharge, reinforced concrete water intake L=6.0m and silt basin with sluice. Free flow supply pipeline, diameter - 1.1m, length – 3.51 km. water is diverting to the power house. Turbine conduit is represented by metal faced tunnel.

