

HPP AND DAM VRGUDINAC



Contract title:	FINAL AND DETAIL DESIGN FOR HPP AND DAM VRGUDINAC
Location/River:	Bela Palanka town / Nisava River – SERBIA
Employer:	"Power Gen" Ltd. Beograd SERBIA
Commencement date:	2012.
Completion date:	2014.
Investments cost:	5,000,000.00 Eur

Hydrology data	
Average discharge	$40 \text{ m}^{3/2}$
PMF flood	980 m
Dam	
Туре	Concre
• •	dam
Height	13.00
Crest length	85.00
Spillway	
Туре	Gated
Type	bays
HPP	•
Installed capacity	1.80 N
Turbine type	Kapla
i uronic type	Kapiai

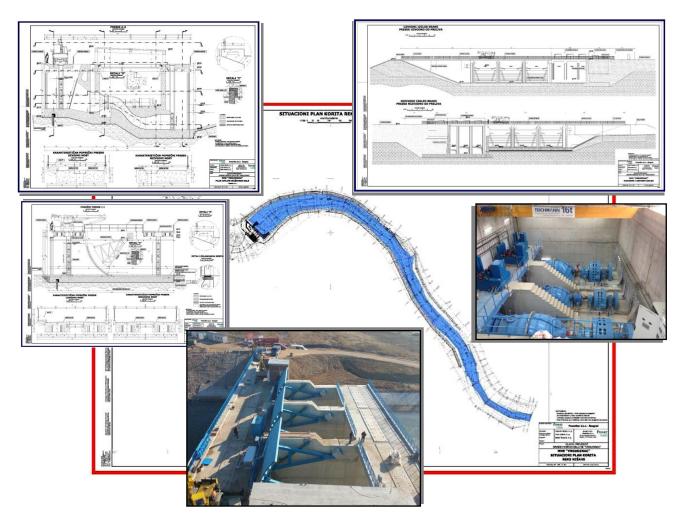
40 m³/s 980 m³/s

Concrete gravity, fill dam 13.00 m 85.00 m

Gated (radial gates) / 3 bays

1.80 MW (3 units) Kaplan (S-type)





Description of the Project:	Location of designed Vrgudinac Dam is on river Nisava, in Serbia. The main purpose of Vrgudinac reservoir is power generation and flood control for downstream area.
	Vrgudinac Dam, 13 m high, is designed as a concrete gravity dam and fill dam. The reservoir is formed by levee on both sides of the river. Three gated spillway bays with stilling basin have sufficient capacity to convey the maximum designed flood with retention in the reservoir storage available. Appurtenant structures includes, power intake with penstock and fish track. Designed power station has the installed capacity of 1.80 MW with discharge of 40 m ³ /sec.
The Services Provided:	Preparation of Final and Design with Tender Documents have been the most essential goals of the Project, including the following specific Consulting Services:
The Services Provided:	
The Services Provided:	of the Project, including the following specific Consulting Services:Determination of General Layout, optimization and engineering design of the Dam,
The Services Provided:	 of the Project, including the following specific Consulting Services: Determination of General Layout, optimization and engineering design of the Dam, Appurtenant Structures and HPP

- Implementation of Cost Estimate with Construction Time Schedule for civil works stage
- Preparation of Tender Documents for civil works.