

## Peshqeshit Hydropower Project (28 MW) on Fani i Madh River in Albania

### Client

Ayen Enerji AS Tirana Albania

### Consultant

IM Maggia Engineering Ltd, Locarno  
 ENSU Ankara

### Construction period

2010–2018

### Construction costs

€ 60 million

### Engineering services

Feasibility study, construction design, tender documents, realization and project supervision, workshop tests, general site supervision, commissioning.

### Description

New construction of an HEPP on the Fani i Madh river with the utilization of the water inflow of the Fani i Vogel River, flowing in a parallel valley located north-east of the city of Tirana in Albania. Construction of two weirs each equipped with a settling basin, power intake and fish ladder, as well as connection galleries, surge tank, penstock, powerhouse, GIS-structure with switchyard on top and transmission line.

### Main technical data

Water intakes Fani i Vogel Fani i Madh

Tunnels:	5,200 m Ø 4.4 m
	4,200 m Ø 3.6 m
	2,100 m Ø 4.4 m

Surge tank	Ø10 m H= 58 m
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Valve chamber	9.5x9.5x14.9 m
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Penstock	60 m Ø3.2 m
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### Power house Peshqeshit

Vertical Francis turbines

Capacity	2x 14.2 MW
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Hydraulic head	90–82.77 m
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Nominal flow	2x 18.5 m <sup>3</sup> /s
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Speed	428 min <sup>-1</sup>
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Generators	2x 20 MVA
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### Valves

2 butterfly valves	DN 2300 PN12
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1 safety butterfly valve	DN 3200 PN10
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1 transformer	40 MVA
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1 GIS-switchyard	
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