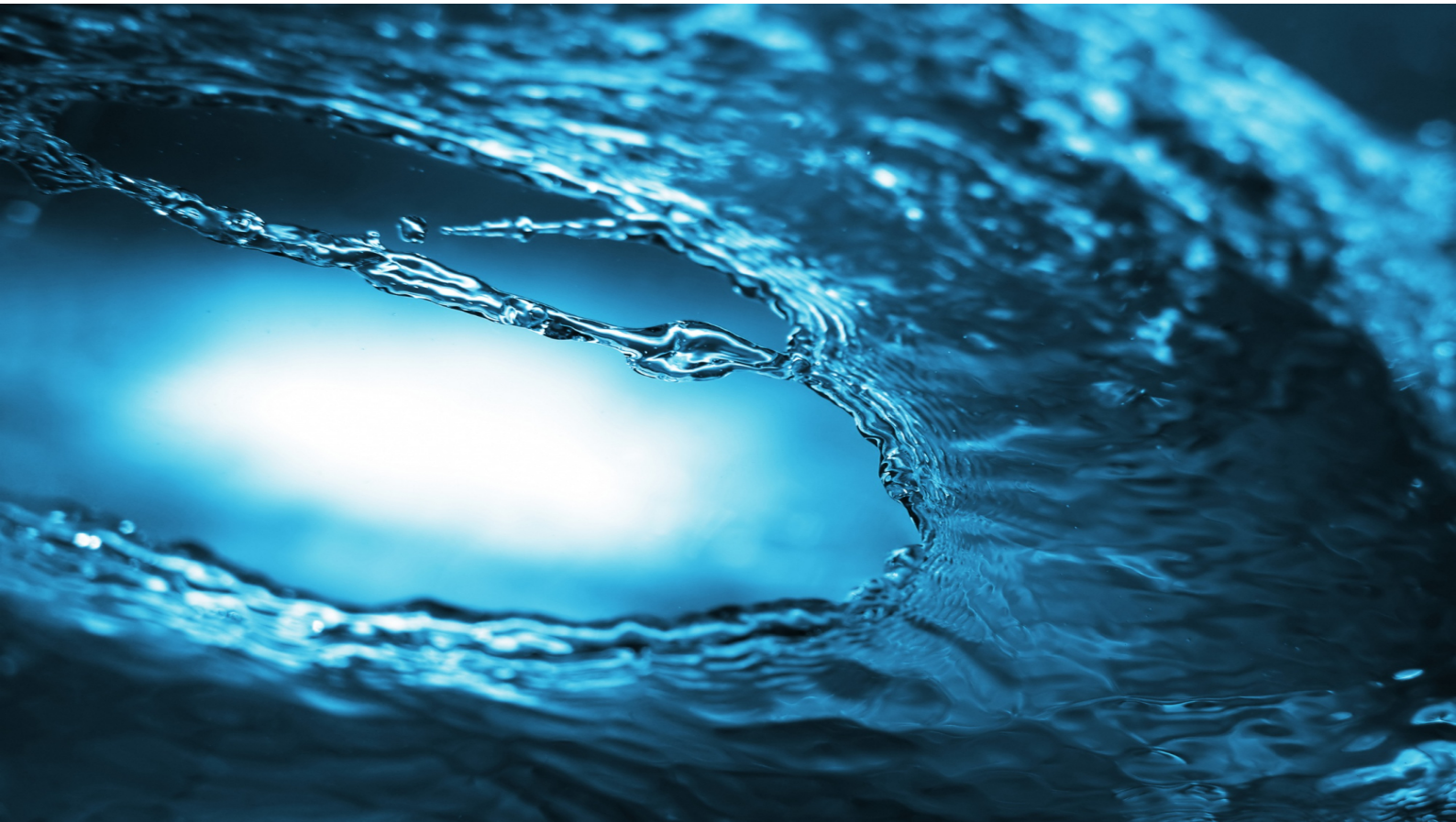


# 5,4MW Hydro Power Plant HPP



**MERGERSCORP**

## 5,4MW Hydro Power Plant HPP

The project involves the construction of a small hydro power plant (hereinafter referred to as "SHPP") with a capacity of 5.4 MW at a potential site located on the Talas River, Talas District, Talas Region. The topography of the terrain makes it possible to build the SHPP with an open-flow intake system.

The location of the SHPP was chosen given the highest slope with maximum development of the river hydroelectric potential.

The potential annual electric energy output is 36.8 million kWh.

### Overview

The location of the intake has been chosen taking into consideration the topography.

of the terrain. The open-flow intake system will be 5.6 meters long. The total pressure will be 50 meters and the average slope of the pressure intake system will be 8.9 meters per kilometer.

The preliminary total area of land plot allocated for the construction of the main structures of the SHPP is 20.2.

hectares, including water intake (6.3 ha), diversion canal (11.0 ha), power house and appurtenant structures (2.9 ha).

The location of the SHPP was chosen given the highest slope with maximum.

development of the river hydroelectric potential. Access roads to the water intake on the right shore – there is a field road along the diversion canal, to the station building on the left shore.

### Keypoints

Nearby 110/35/10 kV Chat Bazaar substation. The capacity of substation is 25,000 kVA. The aerial line to connect to the Chat Bazaar substation is 7.3 km long. The nearby 8,000 kVA 35/10 kV Kyrk-Kazyk substation. Taking into account the potential capacity of the SHPP and the distance from the SHPP to the substation, the construction of a 35 kV aerial line and a 35 kV step-up substation is necessary. According to Google Maps, the length of the 35 kV aerial line connecting the Small HPP switchyard with the "Chat Bazaar" substation will be 2.7 km.

Advantageous location of the facility. The location of the HPP was chosen taking into account the highest slope with maximum development of hydroelectric potential of the river. Access roads to the water intake on the right shore – there is a field road along the diversion canal, to the station building on the left shore.

The topography of the terrain makes possible the construction of an HPP with an open-flow intake system, which reduces the project cost.

High hydroelectric potential. The hydroelectric potential of the country is 142 billion kWh. The Kyrgyz Republic ranks third in the CIS in terms of the HPP and SHPP capacity.

### TARGET PRICE

\$8,990,000

### GROSS REVENUE

\$0

### EBITDA

\$0

### BUSINESS TYPE

Renewable Energy

### COUNTRY

Kyrgyzstan

### BUSINESS ID

L#20240646

Low development of the potential. As of 2021, the utilization rate is 10% of the total hydroelectric potential of the country.

High capacity of HPP cascades. According to experts, the total capacity of prospective HPP cascades is 5,600 billion kWh.

CASA-1000. The Kyrgyz Republic is a member of the CASA-1000 project aimed at creating a power line linking Central and South Asia.

#### Status

- Ready to Build (RTB)

#### Financials

Project cost – \$8,375,960

- Hydraulic structure – \$3,327,333
- Hydromechanical structure – \$2,740,000
- Electrical structure – \$1,280,000
- Unforeseen expenses – \$587,787
- Administrative expenses – \$440,840

Amount of investments – \$8,375,960

Payback period – 6.35 years

Capacity	5.4 MW
Output	36.75 million kWh
Investments	USD 8.37 million

*\*\*According to the legislation of the Kyrgyz Republic, the project may be subject to a preferential tariff with application of a coefficient of 1.3 for small HPPs for a period not exceeding 10 years.*

		1	2	3	4	5	6	7	8	9	10
Output	million kWh	36,75	36,75	36,75	36,75	36,75	36,75	36,75	36,75	36,75	36,75
Tariff	USD/kWh	0.0386	0.0386	0.0386	0.0386	0.0386	0.0386	0.0386	0.0386	0.0386	0.0386
<b>Revenue</b>	<b>thousand USD</b>	<b>1 418,7</b>	<b>1 418,7</b>	<b>1 418,7</b>	<b>1 418,7</b>	<b>1 418,7</b>	<b>1 418,7</b>	<b>1 418,7</b>	<b>1 418,7</b>	<b>1 418,7</b>	<b>1 418,7</b>
<b>EBITDA</b>	<b>thousand USD</b>	<b>1 318,2</b>	<b>1 318,2</b>	<b>1 318,2</b>	<b>1 318,2</b>	<b>1 318,2</b>	<b>1 318,2</b>	<b>1 318,2</b>	<b>1 318,2</b>	<b>1 318,2</b>	<b>1 318,2</b>

✓ IRR at the end of Year 10 is 9.23%

✓ Project payback period is 6.35 years, discounted payback period is 9.05 years

## SOURCES OF FINANCING AND APPLICATION OF FUNDS

Source of financing	Amount, USD
Financial investor	8 375 960
<b>Total:</b>	<b>8 375 960</b>

Application of funds	Amount, USD
Hydraulic structure	3 327 333
Hydromechanical structure	2 740 000
Electrical equipment	1 280 000
Unforeseen expenses	587 787
Administrative expenses	440 840
<b>Total:</b>	<b>8 375 960</b>

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