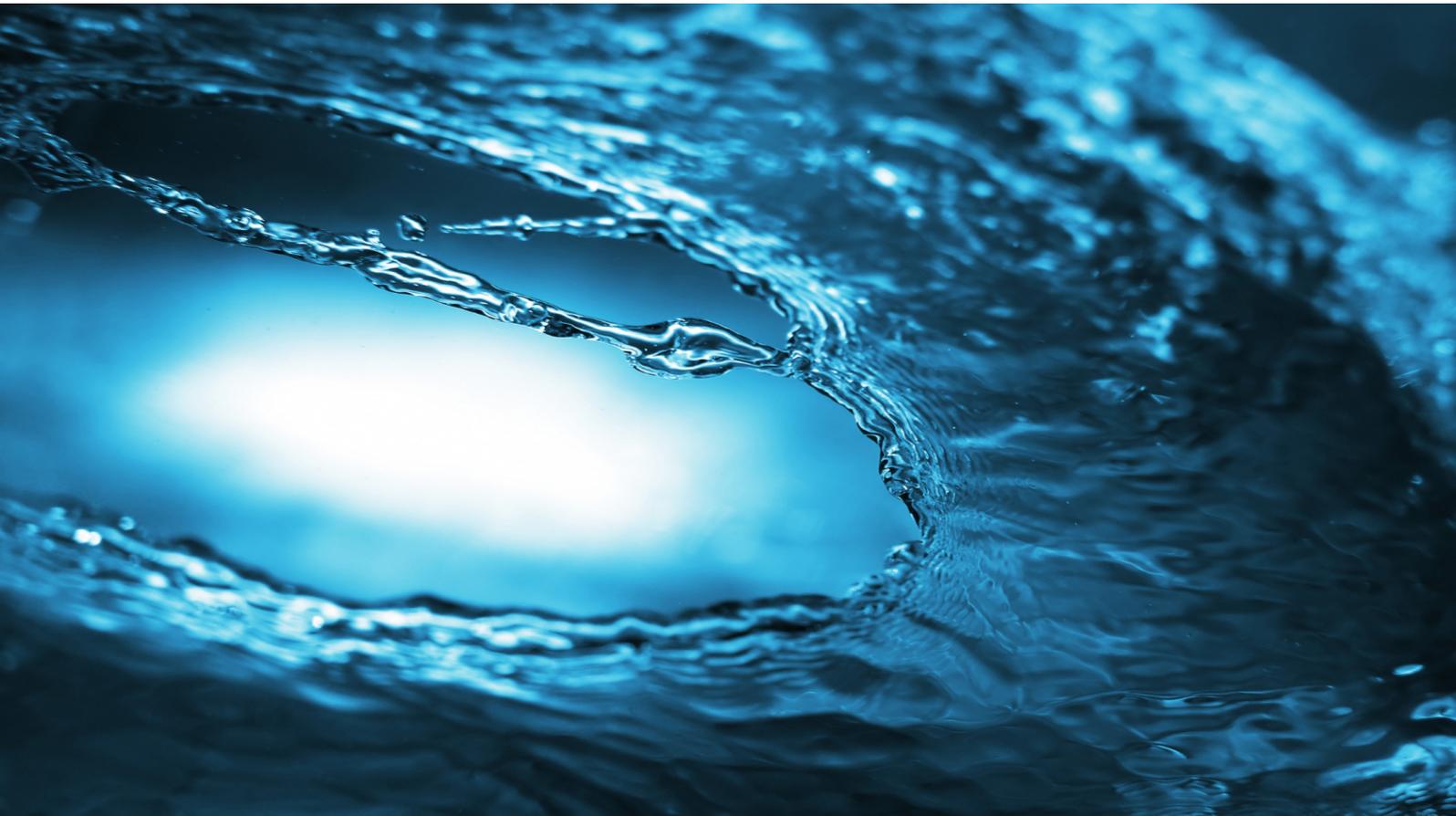


5.4 兆瓦水电站 HPP



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5.4 HPP

该项目涉及在位于塔拉斯地区塔拉斯区塔拉斯河的一个潜在地点建造一座发电能力为 5.4 兆瓦的小型水电站（以下简称“SHPP”）。这种地形使 SHPP 可以采用开流式进水系统。

选择在坡度最高、河流水电潜能开发最大的地方建设 SHPP。

潜在的年发电量为 3680 万千瓦时。

概述

取水口位置的选择考虑了地形因素。

的地形。开流式进水系统长 5.6 米。总压力为 50 米，压力摄入系统的平均坡度为每公里 8.9 米。

初步估算，用于建造该项目主要结构的地块总面积为 20.2 公顷。

公顷，包括取水口（6.3 公顷）、引水渠（11.0 公顷）、发电厂和附属建筑（2.9 公顷）。

选择 SHPP 的位置是考虑到坡度最高，坡度最大。

开发河流的水力发电潜力。

通往右岸取水口的道路-沿引水渠有一条田间小路，通往左岸的车站大楼。

要点

附近的 110/35/10 千伏 Chat Bazaar 变电站。变电站的容量为 25,000 千伏安。连接 Chat Bazaar 变电站的架空线路长 7.3 公里。附近的 8000 千伏安 35/10 千伏 Kyrk-Kazyk 变电站。考虑到 SHPP 的潜在容量以及从 SHPP 到变电站的距离，有必要建造一条 35 千伏架空线路和一个 35 千伏升压变电站。根据谷歌地图，连接小水电站开关站和“Chat Bazaar”变电站的 35 千伏架空线路长度为 2.7 千米。

设施位置优越。

在选择水力发电厂的位置时，考虑到了最高的坡度和最大限度地开发河流的水力发电潜力。通往右岸取水口的道路-沿引水渠有一条田间小路，通往左岸的车站大楼。

由于地形的原因，可以建造一个具有开流式进水系统的水力发电厂，从而降低项目成本。

TARGET PRICE

\$8,990,000

GROSS REVENUE

\$0

EBITDA

\$0

BUSINESS TYPE

发电厂

COUNTRY

吉尔吉斯斯坦

BUSINESS ID

L#20240646

水力发电潜力大。 该国的水力发电潜力为 1,420 亿千瓦时。

在独联体国家中，吉尔吉斯共和国的水力发电厂和冷水发电厂发电能力排名第三。

潜力开发程度低。 截至 2021 年，利用率为全国水电总潜力的 10%。

水力发电厂级联的高容量。 据专家称，未来的水电站级联总容量为 56000 亿千瓦时。

CASA-1000. 吉尔吉斯共和国是旨在建立一条连接中亚和南亚的电力线的 CASA-1000 项目的成员。

现状

- 随时可建 (RTB)

财务

项目费用 – 8,375,960 美元

- 水力结构–3 327 333 美元
- 水力机械结构–2,740,000 美元
- 电气结构 – 128 万美元
- 意外支出 – 587 787 美元
- 行政费用 – 440 840 美元

投资额 – 8,375,960 美元

投资回收期 – 6.35 年

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
Revenue	thousand USD	1 418,7	1 418,7	1 418,7	1 418,7	1 418,7	1 418,7	1 418,7	1 418,7	1 418,7	1 418,7
EBITDA	thousand USD	1 318,2	1 318,2	1 318,2	1 318,2	1 318,2	1 318,2	1 318,2	1 318,2	1 318,2	1 318,2

- ✓ 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
Total:	8 375 960

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
Total:	8 375 960

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