

12 MW Hydropower Plant (2 × 6 MW Units) RTB + GOV PPA



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The Hydropower Plant Cascade project represents a key development in the renewable energy infrastructure of the **Almaty Region**.

This initiative is structured as a cascade system, featuring **two hydroelectric power plants: HPP-1 and HPP-2**. Together, they offer a substantial **total installed capacity of 12 MW**, with each plant contributing **6 MW** of clean energy.

The location in the Almaty Region is ideal, chosen specifically for its **strong hydrological potential**—an abundant and reliable water resource necessary for consistent hydropower generation. Furthermore, the region is recognized for its **well-established renewable energy sector**, allowing the project to seamlessly integrate with existing infrastructure and support the area's transition to sustainable power. This project is set to be a reliable, long-term source of green electricity.

Kazakhstan has significant hydropower resources, with an estimated 170 billion kWh of gross potential and 62 billion kWh of feasible potential. This River is located within the country's South-Eastern hydropower zone, a priority area for small HP expansion to support Kazakhstan's long-term renewable energy targets.

The project has been designed based on detailed topographic and hydrological assessments, and the environmental safety of the facility.

Each HPP of the cascade is a combination of hydraulic structures and electromechanical equipment that convert the gravitational energy of the water flow into electrical energy for delivery to the regional grid. The expected lifespan of the plant is 25-35 years, with potential for significantly longer service life given standard refurbishment cycles typical in hydropower assets.

Main technical and economic parameters of the designed HPP-1 & HPP2

TARGET PRICE

\$7,500,000

BUSINESS TYPE

Renewable Energy

COUNTRY

Kazakhstan

BUSINESS ID

L#20251049

Name (indicator)	Units of measurement
Recommended (indicative) installed power	MW
Head (gross)	m
Working pressure (net), m	m
Maximum water flow through the turbine	m ³ /s
Indicative volume of electricity generation	million kWh

Indicative unified main technical and economic parameters of the designed HPP Cascade (HPP-1 and HPP-2)

Parameter name

Installed capacity

Electricity production (annual)

Construction cost (excluding IDC)

Construction Cost (including IDC and loan charHPP)

Specific capital investment per 1 kW

Specific capital investment per 1 kWh

Electricity tariff during the payback period ("fixed tariff")*

Net income in the first year of operation during the payback period

Net income in the first year after the payback period

Net Present Value (NPV)

Internal Financial Rate of Return

Payback period (discounted)

Payback period (downtime)

Profitability Index

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