

# 50MW Ready-to-Build (RTB) Hydroelectric Asset featuring a 240 GWh secured by a GOV Power Purchase



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The Hydroelectric Project represents a premier, high-yield renewable energy asset strategically situated in the water-abundant mountainous region of southern Kazakhstan. Currently at the Ready-to-Build (RTB) stage, this 50MW run-of-river facility is engineered to capitalize on optimal hydrological conditions, delivering a projected annual generation capacity of 233.97 GWh of clean, baseload electricity. This project is the HPP-1, a milestone engineering endeavor located on the hydro-energetically rich Bukhtarma River in the Altai District, East Kazakhstan Region.

GROSS REVENUE  
\$0

EBITDA  
\$0

BUSINESS TYPE  
Renewable Energy

COUNTRY  
Kazakhstan

BUSINESS ID  
L#20261074

### Investment Highlights

- **Secured Revenue Stream:** Fully backed by a long-term **Government Power Purchase Agreement (PPA)**, ensuring predictable, inflation-indexed cash flows and mitigating off-taker risk.
- **Strategic Infrastructure:** The asset features a state-of-the-art concrete gravity dam, advanced generation facility, and dedicated substation infrastructure seamlessly integrated into the national grid.
- **ESG & Sustainability Impact:** By generating over 233 GWh of zero-emission power annually, the plant will offset significant carbon emissions, directly supporting Kazakhstan's national transition toward carbon neutrality.
- **Shovel-Ready Status:** All primary environmental permits, land rights, and grid-connection approvals have been secured, allowing immediate commencement of civil works.

### Technical Profile

Parameter	Specification
<b>Capacity</b>	50 MW
<b>Annual Yield</b>	233.97 GWh
<b>Project Stage</b>	Ready-to-Build (RTB)
<b>Offtake Structure</b>	Sovereign-backed Government PPA
<b>Asset Type</b>	Run-of-River Hydroelectric

**Operational Mandate:** Managed by a seasoned team of regional engineers and international energy experts, the project utilizes real-time telemetry and advanced hydrological modeling to optimize flow management and maximize generation efficiency.

- **Installed Capacity:** 50 MW
- **Projected Annual Output:** 233.97 GWh
- **Power Purchase Agreement (PPA):** Fixed tariff, KZT 38.99 with RFC KEGOC (GOV) – \$0.08 USD (8 US cents)
- **Structural Innovation:** A 35.87-meter-high gravel-sand dam featuring an elastic composite geomembrane core, uniquely engineered to withstand deep sedimentary foundations and up to magnitude-8 seismic events.
- **Turbine Configuration:** 4x high-efficiency Axial-flow Kaplan units (12.5 MW each) designed for optimized performance across volatile annual flow regimes.
- **Grid Infrastructure:** Fully integrated via a 15.5 km double-circuit 110 kV line coupled with a state-of-the-art Gas Insulated Switchgear (GIS) substation for extreme climate reliability.
- **Commercial Viability:** De-risked via a secured, long-term Power Purchase Agreement (PPA) featuring a guaranteed tariff of 38.99 KZT/kWh for 20 years.

#### Operational & Engineering Capabilities

This firm differentiates itself through an integrated project delivery framework that covers every critical milestone of large-scale renewable development:

- **Hydrological Excellence:** Leveraging over 65 years of continuous historical flow data (1956–2022) to precisely model asset capacity factors and design for 1-in-500-year extreme flood events
- **Global Contracting Alliances:** Partnering with world-class engineering organizations, including the East Kazakhstan branch of the **China International Water & Electric Corporation**, ensuring projects are delivered on time, within budget, and to international standard specifications.
- **Asset Digitalization:** Transitioning toward fully automated, “staff-less” plant capabilities via modern SCADA architectures, redundant PLC gate-control systems, and predictive maintenance technologies.

#### Financial Soundness & Governance

The Owner maintains an institutional-grade financial footprint, utilizing a disciplined capital deployment model optimized for capital-intensive infrastructure projects.

- **Optimal Capital Structuring:** Assets are typically capitalized through a highly structured 30% Equity / 70% Debt financing framework, maintaining robust debt service coverage ratios (DSCR).
- **Long-Term Predictability:** Revenue streams are shielded from market volatility through government-backed, long-term off-take mechanisms, offering investors predictable, infrastructure-grade yield profiles.

- **Rigorous Risk Management:** From extensive preliminary geotechnical drilling to rigorous ESG alignment, every project undergoes comprehensive risk mitigation prior to financial close.

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