

50 兆瓦即建 (RTB) 水电资产，通过 GOV 购电协议 (PPA) 获得



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50 (RTB) GOV (PPA) 240

该水电项目是一项重要的高收益可再生能源资产，位于哈萨克斯坦南部水资源丰富的山区，地理位置十分优越。这座 50 兆瓦的河上发电设施目前正处于准备建设 (RTB) 阶段，其设计目的是利用最佳水文条件，提供预计年发电量为 233.97 千兆瓦时的清洁基荷电力。该项目是具有里程碑意义的 HPP-1 号工程，位于东哈萨克斯坦地区阿尔泰区水能丰富的布赫塔尔马河上。

- 完全由长期 **PPA** 支持，确保可预测的、与通胀指数挂钩的现金流，降低承购商风险。
- 该资产拥有最先进的混凝土重力坝、先进的发电设施和专用变电站基础设施，可与国家电网无缝连接。
- **ESG** 该发电厂每年可产生超过 2.33 亿千瓦时的零排放电力，将抵消大量的碳排放，直接支持哈萨克斯坦向碳中和的国家转型。
- 所有主要环境许可证、土地权和并网审批均已获得，可立即开始土建工程。

参数 规格

50 兆瓦

233.97 千兆瓦时

即用即建 (RTB)

主权支持的政府 PPA

径流式水电站

该项目由一支经验丰富的地区工程师和国际能源专家团队管理，利用实时遥测技术和先进的水文模型来优化流量管理，最大限度地提高发电效率。

TARGET PRICE

\$ 0

GROSS REVENUE

\$ 0

EBITDA

\$ 0

BUSINESS TYPE

发电厂

COUNTRY

哈萨克斯坦

BUSINESS ID

L#20261074

- 50 兆瓦
- 233.97 千兆瓦时
- 购电协议(PPA)：固定费率，38.99 克朗，RFC KEGOC (GOV) – 0.08 美元（8 美分）
- 35.87 米高的砾石-砂坝采用弹性复合土工膜核心，其独特的设计可抵御深层沉积地基和高达 8 级的地震。
- 4 台高效轴流式卡普兰机组（每台 12.5 兆瓦），设计用于在不稳定的年流量情况下优化性能。
- 通过一条 15.5 千米长的双回路 110 千伏线路与最先进的气体绝缘开关设备（GIS）变电站进行全面整合，以确保极端气候条件下的可靠性。
- 通过有保障的长期购电协议 (PPA)，降低风险，20 年内保证电价为 38.99 KZT/kWh。

运营和工程能力

该公司的与众不同之处在于其综合项目交付框架涵盖了大规模可再生能源开发的每一个关键里程碑：

- 利用超过 65 年的连续历史流量数据（1956-2022 年），精确模拟资产容量系数，并针对 500 年一遇的极端洪水事件进行设计
- 与包括东哈萨克斯坦分公司在内的世界一流工程机构合作，确保项目在预算范围内按时交付，并符合国际标准规范。
- 通过现代 SCADA 架构、冗余 PLC 门控系统和预测性维护技术，向全自动、“无需人员”的工厂能力过渡。

财务健全与治理

业主保持着机构级的财务足迹，利用规范的资本部署模式，优化资本密集型基础设施项目。

- 资产通常通过高度结构化的 30% 股权/70% 债务融资框架进行资本化，保持稳健的偿债覆盖率 (DSCR)。
- 通过政府支持的长期承购机制，收入流不受市场波动的影响，为投资者提供可预测的基础设施级收益。
- 从广泛的初步岩土钻探到严格的环境、社会和治理调整，每个项目在财务结算前都要进行全面的风险缓解。

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