

40兆瓦离网电站及数据中



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40

建设用于高性能计算（HPC）、人工智能集群或工业数据挖掘的3/4级数据中心。

技术参数与基础设施

- 土地面积：2.9公顷，已确认未来存在领土扩张的潜力。
- 能源独立：
该项目完全由专有的天然气发电系统（离网）供电，从而避免了受公共电网限制和电力短缺的影响。

安全供气规范

- 工作压力：5.4 MPa
- 甲烷含量：不低于91%（高热值天然气）
- 最大小时供气量：10,000 立方米/小时
- 日供水量：240,000 立方米
- 月供应能力：720万立方米
- 年供应能力：8760万立方米

发电能力

根据现代燃气往复式发电机系统每兆瓦平均消耗250立方米天然气的标准，每小时10,000立方米的稳定天然气供应可支持约40兆瓦电力的可靠发电。

现有的现场基础设施

该场地拥有完善的基础设施，包括：

- 光纤通信线路（FOCL）
- 供水系统
- 辅助电源
- 已修建的通往道路

可扩展性与扩展潜力

该项目具有巨大的可扩展潜力，并有一份明确的开发路线图作为支撑，计划通过开发相邻地块，将天然气供应上限提高，并将发电能力扩大至100兆瓦。

主要投资亮点

- 资本支出总额：约1.58亿美元
- 卓越的风能资源：平均风速为8.5米/秒，可实现高发电量 of 2

TARGET PRICE

\$ 158,000,000

BUSINESS TYPE

数据中心

COUNTRY

哈萨克斯坦

BUSINESS ID

L#20261096

- 高容量因子：预计为49%（P50）和44%（P75），反映出该项目具有强劲的经济效益
- 长期收入可预测性：通过买方与本公司之间签订的为期20年的电力购买协议（PPA）得以保障
- 初步电价：预计2027年为0.029美元/千瓦时
- 诱人的回报：预计股本回报率（ROE）最高可达15%

强劲的需求基本面

该公司是哈萨克斯坦最大的电力生产商之一，也是该国最大的电力消费企业，目前约占全国发电量的17%。

预计该公司的铁合金业务将成为该项目发电量的主要承购方，从而确保需求状况稳定且可预测。

投资机会

这是一个投资哈萨克斯坦一个具有战略意义的可再生能源项目的良机，该项目兼具优质的风能资源、长期合同收入、强劲的工业购电需求以及具有吸引力的风险调整后回报。

- 月发电总量：2880万千瓦时
- 每千瓦时最终成本：12.75 KZT（约合0.028美元/千瓦时）

这种成本结构使该项目跻身全球最具成本竞争力的地区之列，特别适合开展包括人工智能、高性能计算（HPC）和加密货币挖矿在内的高能耗计算应用。

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