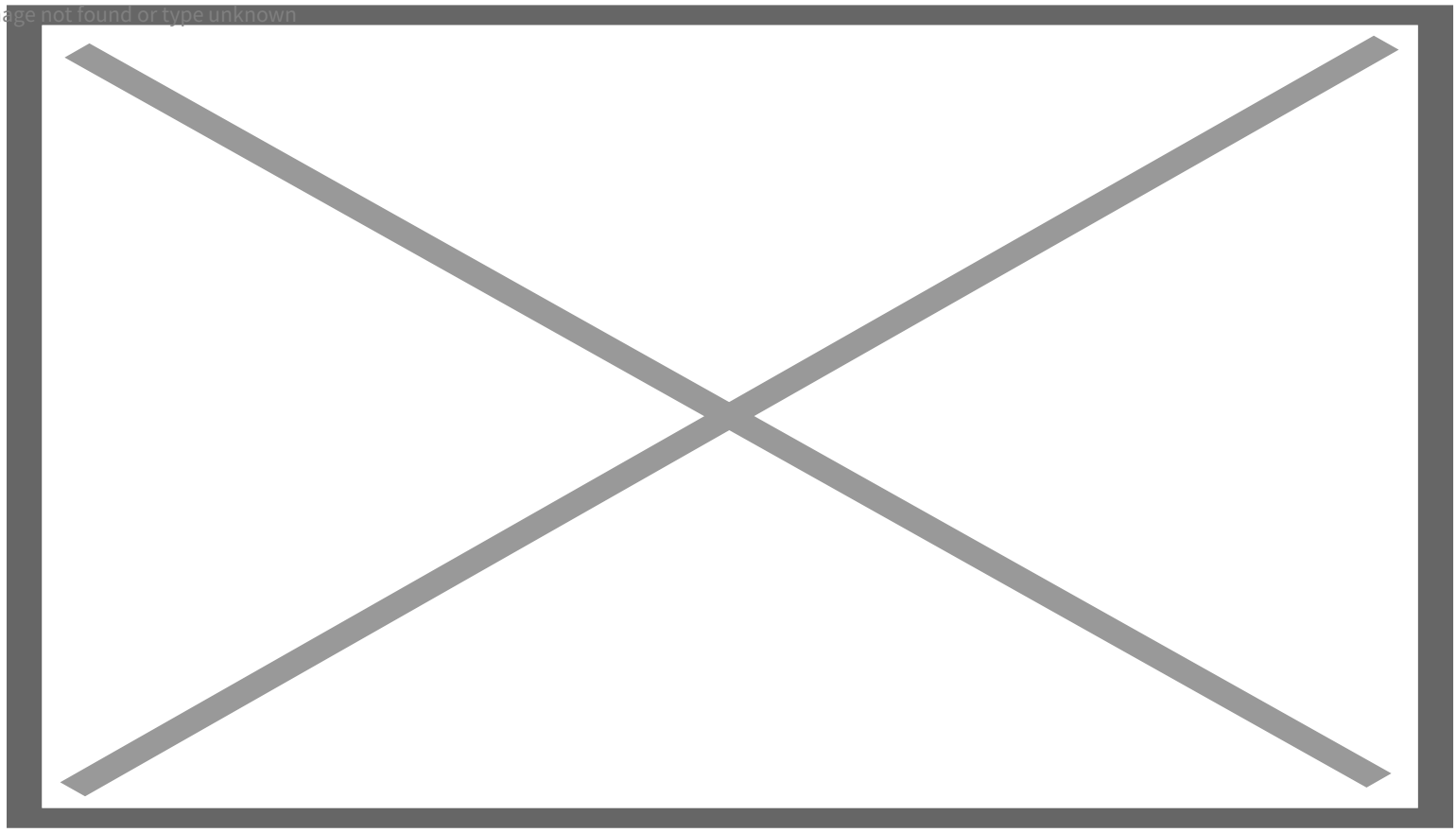
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417MWp储能水电站水电

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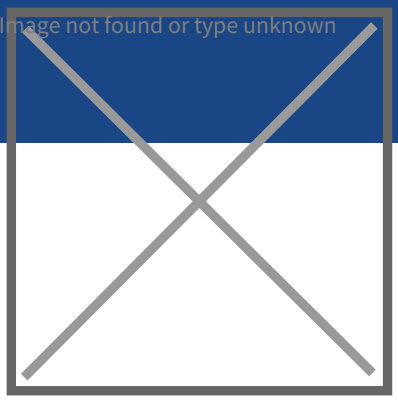


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MERGERSCORP



417MWp

一个位于水文条件优越的南亚河流流域的大型抽水蓄能水电开发项目。该项目是一项经过全面工程设计的、高水头的水电工程，旨在实现长期的基础负荷可再生能源发电，并具有强大的区域外输潜力。

TARGET PRICE

$ 1,300,000,000

GROSS REVENUE

$ 83,200,000

EBITDA

$ 73,200,000

BUSINESS TYPE

可再生能源——水力发电

COUNTRY

尼泊尔

BUSINESS ID

L#20261080

项目概述

该项目是一个以蓄水为主的水电工程，包括一座大型RCC大坝和一个大型水库系统，可提供可观的有效蓄水容量。 该设计可实现多季节调节，并在用电高峰期优化发电。

- 装机容量：417 兆瓦
- 水轮机配置：4台×104.25兆瓦立轴佩尔顿水轮机
- 设计网高：约610米
- 设计流量：78.4 立方米/秒
- 项目类型：蓄水式水电站（高水头）
- 状态：准备开工的项目

水坝与水库

一座大型弧形重力式钢筋混凝土大坝形成了一个储水量巨大的水库系统，可实现季节性调蓄。

- 大坝高度：248 米
- 水库总蓄水量：4.74亿立方米
- 可用储量：3.5亿立方米
- 溢洪道：
  Ogee型无闸门溢流结构，专为应对极端洪水（最高可达PMF条件）而设计
- 防洪处理：专为极端水文状况设计，包括PMF级入流量

水道系统

该项目采用了一套经过精密设计的液压布局，专为高水头能量传输而设计：

- ~8.2公里长的混凝土衬砌引水隧道（马蹄形截面）
- 溢流井系统（高165米，直径16米）
- 多节钢衬压力竖井和落料竖井
- 地下变电站和变压器洞室
- 经过全面优化的高压输送系统，确保高效与稳定

动力之源

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AT 40TH WALL STREET, SUITE #2725, NEW YORK, NEW YORK 10005, UNITED STATES OF AMERICA

- 地下发电厂综合体
- 针对高水头运行优化的佩尔顿水轮机配置
- 地质环境稳定，宿主岩为砂岩

输电与电网并网

- ~112公里高压输电线路
- 400千伏双回路设计
- 与该地区主要变电站枢纽直接互联

能源产量

- 年发电量：约1,280 GWh
- 稳定电力：约672 GWh
- 二次能源：约608 GWh
- 强大的季节性负载均衡和数据导出能力

项目预计成本（OPCC）

- 资本支出总额：约13亿至14亿美元（视输电范围而定）
- 包含详细列明的土木、机电、水力机械及基础设施组件

主要投资亮点

- 具有高水头效率的大型蓄水式水电资产
- 采用地下机房设计的长寿命基础设施
- 雄厚的地质和水文资源基础
- 在应对峰值负荷和出口市场方面具有高度灵活性

参数 / 指标	保守情景（65美元/兆瓦时）	基准情景（75美元/兆瓦时）	乐观情景（85美元/兆瓦时）
	1,280,000 兆瓦时	1,280,000 兆瓦时	1,280,000 兆瓦时
	83,200,000	**96,000,000**	**108,800,000**
（运营与维护、行政、保险）	约10,000,000美元	约12,000,000美元	约13,000,000美元
EBITDA	**73,200,000**	**84,000,000**	**95,800,000**
	~88%	**~87.5%**	**~88%**

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