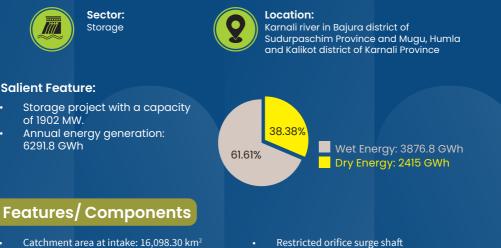
Mugu Karnali Storage Hydroelectric Project (1902 MW)





Background

Mugu Karnali Storage Hydroelectric project is a storage scheme hydropower designed to harness the potential of Kranali River. The Project is located at Bajura District with installed capacity of 1902 MW and total annual energy generation of 6291.8 GWh. Ministry of Energy, Water Resource and Irrigation has awarded Survey License of Mugu Karnali Storage Hydro Electric Project (1902 MW) to Vidhyut Utpadan Company Limited (VUCL) on July 06, 2018 and after completion of feasibility study VUCL has applied for Generation License at DOED on June 27, 2023.



- Design discharge: 762.5 m³/s
- Gross head: 276.0m
- Rock Fill Dam with Central Impervious Core and Filter with height 283 m
- 4 number of Side intake
- Main spillway is Low Ogee Shaped gated Chute C
- 4 number of circular underground tunnel type water conveyance with diameter 8 m with each 565 m length
- Underground Powerhouse
- 2 number of Underground inverted D-shaped tail race Tunnel with length 1,040 m
- 8 number of Vertical Axis Francis Turbine
- Transmission Line: 400 kV D/C approx. 42.0 km length
- Connection Point: Rengil Substation, Kalikot district (to be developed by RPGCL)

Project Outcome



Excess energy Export to neighboring country



Promote Tourism and Development



Increment in economic activities



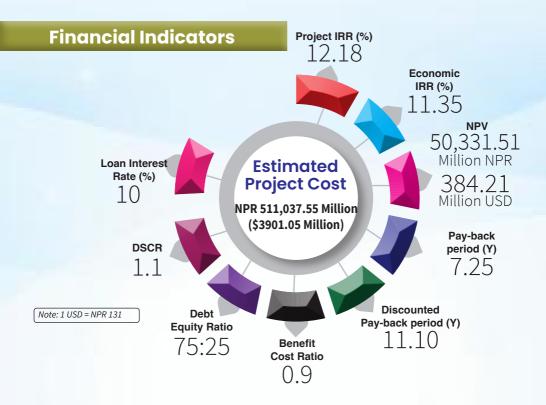
Achievement of Sustainable **Development Growth and Green** Growth



Enhancing local infrastructure, including access roads & bridges



Employment Opportunities



Project Modality & Requirement



Public Private Partnership **(PPP model)**

Build Own Operate Transfer **(BOOT)**

Project Seeking Finance



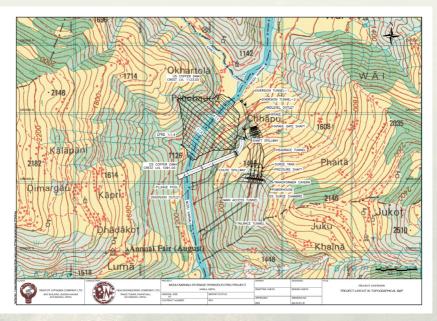
Seeking lenders to finance 75% of the total project cost as a debt

Project Implementation Timeline



Additional Information

MKHEP will bring socio-economic transformation of Sudurpaschim and Karnali Province of Nepal.



Pic 1: Project Layout

Relevant Agencies

- Vidhyut Utpadan Company Limited (VUCL)
- Ministry of Energy, Water Resource and Irrigation (MOEWRI)

About the Agency

Agency: Vidhyut Utpadan Company Limited

Government of Nepal has established Vidhyut Utpadan Company Limited (VUCL) under the Companies Act 2006 AD and registered in Ministry of Industry, Office of the Company Registrar Government of Nepal 'to identify HPP Potential of country and to carry out other work for the development of HPP. The company is working for survey, construction/development, generation, operation and management of HPP in an economically efficient and sustainable manner to meet the growing power demand in the country. Company is diversifying its business from HPP to Renewable energy sector as well through collaboration with National and International investor and various Development Partners (DP).

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