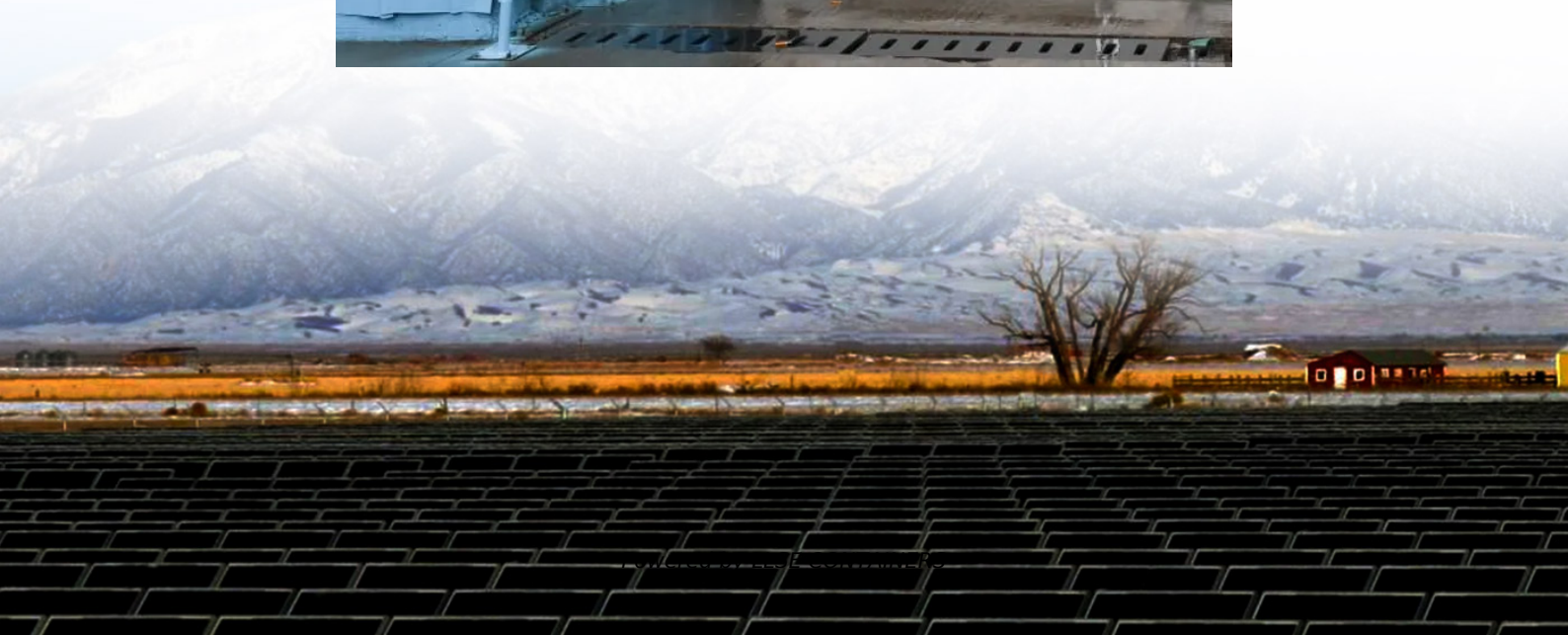


Nepal Randian Energy Storage Project





Overview

Gham Power together with its partners Practical Action and Swanbarton have officially been awarded a project by United Nations Industrial Development Organization (UNIDO) to install one of the largest energy storage systems in Nepal, with a total battery capacity of 4MWh. Why should we study pumped storage systems in Nepal Himalayas?

Nepal Himalayas provide an ideal testbed to study pumped storage systems given high topographic gradients, large flow fluctuations, and prevalent energy demand patterns.

Can a geospatial model predict energy storage capacity across the Nepal Himalayas?

In this study, we configured a geospatial model to identify the potential of PSH across the Nepal Himalayas under multiple configurations by pairing lakes, hydropower projects, rivers, and available flat terrain, and consequently estimate the energy storage capacity.

Can solar PV be integrated with pumped hydro storage in Nepal?

Integrating Solar PV with Pumped hydro storage in Nepal: A case study of Sisneri-Kulekhani pump storage project Hydropower Development in Nepal - Climate Change, Impacts and Implications Mool PK, Wangda D, Bajracharya SR, Kunzang K, Raj Gurung D, Joshi SP.

Is pumped storage hydropower feasible in the Himalayas?

We show that 42% of the theoretical potential of 3000 GWh is technically feasible. We find the flat land-to-river configuration more promising than other configurations. Our findings provide insight into the potential of pumped storage hydropower and are of practical importance in planning sustainable power systems in the Himalayas and beyond.



Nepal Randian Energy Storage Project



[Nepal Himalaya offers considerable potential for pumped storage](#)

Dec 1, 2023 · PSH's large potential for energy storage in the Nepal Himalayas is a precursor for Nepal to become a seasonal power hub in the region. Furthermore, in the South Asia region, ...

[NEA prioritizes pumped storage project for energy security](#)

Mar 5, 2025 · The Nepal Electricity Authority (NEA) has prioritized the construction of pumped storage hydropower projects to manage daily electricity demand fluctuations and enhance the ...



[Nepal's Largest Battery Storage Project Launched « ...](#)

Apr 3, 2025 · The project is expected to transform industrial energy use by replacing polluting diesel generators with a large-scale battery storage system powered by solar energy . Over ...



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Apr 29, 2025 · Gham Power, supported by UNIDO, is installing Nepal's largest energy storage system to cut diesel use and carbon emissions.



[Energy Storage - Independent Power ...](#)

Jun 2, 2025 · Independent Power Producers' Association, Nepal (IPPAN) was established in the year 2001 with the intention of encouraging the ...



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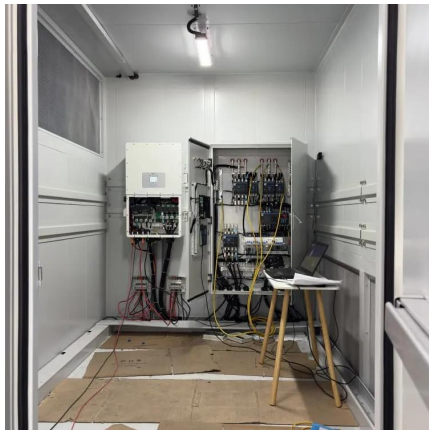
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Nepal , Green Hydrogen Organisation

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Storage Solutions Revolutionizing Nepal's Grid
Enter the Nepal Energy Storage Base initiative - a \$1.2 billion national program approved last month to deploy 30 storage facilities by 2027 [1].
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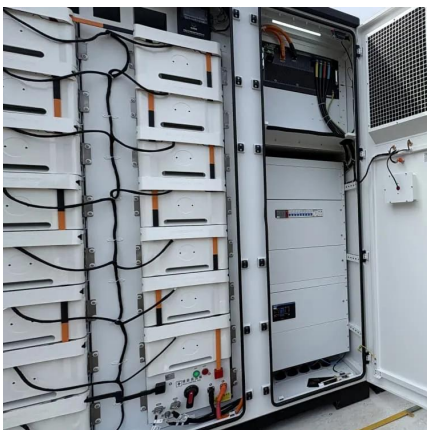


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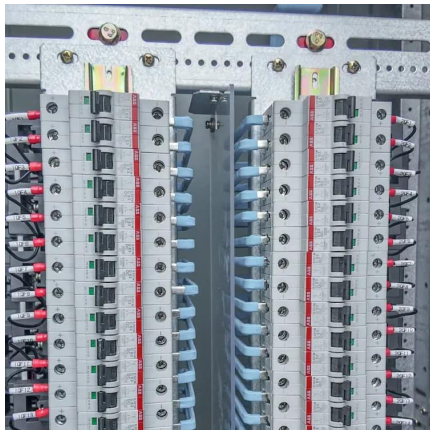
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