

Large Energy Storage in Nepal





Overview

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.

Where are the most exploitable storage sites in Nepal?

We observed that the most technically feasible locations (greater than 0.1 GWh, shown in green squares in Fig. 4) were located in the northeast region of the country. Only one exploitable site was found with a larger storage capacity, i.e., 0.3 GWh (between Begnas and Rupa Lakes in Northeast Nepal).

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 pumped storage hydropower be used in Nepal?

In this study, we assess the potential of pumped storage hydropower across Nepal, a central Himalayan country, under multiple configurations by pairing lakes, rivers, and available flat terrains. We then identify technically feasible pairs from those of potential locations.



Large Energy Storage in Nepal



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Nepal Himalaya offers considerable potential for pumped storage

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