



# Nepal alter energy solution

Can Nepal produce green hydrogen?

By leveraging its abundant hydroelectric resources, Nepal can produce green hydrogen to meet its energy needs and reduce its carbon footprint. The applications of green hydrogen in energy storage, transportation and industrial processes are vast, offering a cleaner alternative to fossil fuels.

Could green hydrogen be a game-changer for Nepal?

So, green hydrogen can potentially be a game-changer for Nepal as it seeks to combat climate change and transition to a low-carbon economy. By leveraging its abundant hydroelectric resources, Nepal can produce green hydrogen to meet its energy needs and reduce its carbon footprint.

How to reduce energy losses in Nepal?

Introducing the energy efficiency measures in industries and upgrading the production infrastructure can assist in curtailing the huge system-level energy losses. Nepal should follow the international trend of creating the energy mix to build up its power systems rather than focusing only on large hydropower projects as is happening at present.

Is green hydrogen a viable solution for Nepal's Transition to a low-carbon economy?

For a couple of years, as green hydrogen has been considered the most efficient and sustainable green energy, its potential in Nepal has become of interest to researchers, developers and the government. It represents a promising solution in the nation's transition toward a low-carbon economy.

Can Nepal create the right energy mix?

The transformation success and economic activities are critically dependent on providing sufficient energy supply. The renewable energy sources abundantly present in Nepal are naturally the key potential solution to the present energy crisis. However, creating the right energy mix for Nepal is still subject to debate.

How to tackle the energy crisis in Nepal?

Understanding the current energy situation in Nepal is the first key step towards tackling its energy crisis. However, the ultimate goal is to eradicate, not just mitigate the energy crisis. It is only when the energy demands are met that substantial economic and social developments in Nepal can be expected.

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This year's summit emphasized the critical role of clean energy and digitalization in shaping the future of Nepal's infrastructure. During the Energy and Water Resources panel discussion on September 12th, Chen Yong, President of Huawei APAC Digital Power Smart PV & ESS, presented on the topic "Energy Digitalization for a Smart and ...





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Green hydrogen is a promising alternative energy source that can help meet Nepal's energy needs. Hydroelectricity is the most efficient form of energy in Nepal, making it the best option for producing green hydrogen. Different studies reveal that splitting 1.0 kg of water using an electric current produces 110 g or 1235 liters of hydrogen.

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In the case of Nepal, the total theoretical hydroelectric capacity is 83 GW, with 43 GW being technically and economically achievable [8]. However, on a more recent note, a study by Water and Energy Commission Secretariat in 2019 revealed a gross hydropower potential of 72.5 GW, with a techno-economical potential of 32.7 GW, and total installed ...

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Although there is a considerable lack of efficiency in energy use, Nepal accounts for relatively low CO2 emissions compared to other countries in the region. The reason is the high proportion of renewable energy sources (biomass and hydropower) in primary energy consumption. 43.6 % (2009) of Nepalese population has access to electricity; 81.0 % ...

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