

How sustainable is mini-grid operation in Nepal?

The findings show that sustainable operation of mini-grid requires the local capacity building, coordination, and understanding among community cooperatives. Most of the people in Nepal live in rural areas, where access to energy resources reaches 84.9% (97.7% urban and 81.7% rural) [1].

Does Nepal need a micro hydropower catchment area?

Abstract - Nepal is known for its successful rural electrification efforts through community owned and managed standalone micro hydropower projects (MHP) that have helped transform its rural economy. Unfortunately, as soon as the national grid reaches a micro hydro catchment area, things start falling apart.

Can micro-hydropower provide electricity to rural areas in Nepal?

A majority of Nepalese population are living in rural areas, where the electricity access by grid extension is not feasible. Development of micro-hydropower in the isolated state is one of the solutions to provide the electricity to these areas.

Should 'permit/license' regime be simplified for grid interconnection in Nepal?

The 'permit/license' regime prevalent for grid interconnection in Nepal has to be simplified before a large number of rural communities come forward to take advantage of government's policy to interconnect MHPs of less than 100kW.

Why does Nepal lack skilled manpower for a microcontroller based control panel?

The adopted technologies are new in the context of Nepal, resulting to the lack of skilled manpower for repair and maintenance work. Skilled personnel needs to be hired from India for the purpose of repair and maintenance of the microcontroller based control panel which is the core of the technology implemented.

How is rural electrification implemented in Nepal?

Currently, rural electrification in Nepal is implemented through two institutions; Nepal Electricity Authority (NEA), and Alternative Energy Promotion Center (AEPCC) [11, 12]. NEA is implementing grid-based REs to remote areas either on its own or through Community Based Rural Electrification (CBRE).

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A team from the "Nepal Solar Volunteer Corps" [29], including the authors and volunteers have installed four PV off-grid systems in various parts of Nepal. In this study, a HRES combining three RE power systems - hydro (20 kW), PV (5 kW), and wind (3 kW) - was implemented in the remote villages of Thingan and Kolkhop, Makawanpur ...

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o Study was carried out as part of research projects -"Renewable energy based rural electrification for South Asia: the Mini Grids Experience" funded by GNESD -"Decentralized off-grid electricity generation in developing countries: business models for off-grid electricity supply" OASYS South Asia), funded by Research Councils, UK Energy Program ...

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