



# Off-grid energy storage kathmandu

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To eradicate this problem, we have partnered with Swanbarton, Practical Action, Scene Connect, and HiT power for a project termed 'GRIPS (Grid Reliancy through Intelligent Photovoltaic Storage). Our idea is to develop a Smart PV+ Storage system that will allow the generation of sun-powered energy locally, eventually leading to the reduction of the use of Diesel Generators and environmental welfare. This process began on the 1st of September 2022 and will run for 24 months under two phases. In the first phase, we'll build and install the Smart PV+ Storage system and in the following phase, we will move forward with the trial and brainstorm on the business plan development.

The main objective of this project is to demonstrate that the smart storage system can optimize the use of peak solar, which will eventually decline the import of energy from the neighboring country, and as a result, will increase energy security in Nepal.

Each member of the cooperation is responsible for specific tasks. For example, Swanbarton will be responsible for software development, whereas HiT power will develop the hardware like inverter and switch. Likewise, our third partner Scene Connect will monitor the power quality and we, Gham Power Nepal, will be responsible for the coordination and supervision of the overall installation process in Nepal.

The world is facing problems due to the lack of a stable energy storage system. This project will result in a great step to improve the energy storage system and ensure energy stability for Nepal. After the trial and development of the concrete plan, we further plan to explore overseas like the developing neighbor nations: India and Bangladesh, and eventually, reach the entire globe.

Contribute by Agraj Khanal, Content Writing Intern

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I'm very much looking forward to Justin's next blog installment (about his Victron powered off-grid Straw Bale home) when he plans to open the Victron boxes and carry on with equipment installation. In the meantime I just received email about another fascinating off-grid project. The clue is in the headline image. What a contrast!

The Tyers family had a shiny courier van deliver all their equipment direct to their doorstep and home, where they could open the boxes amidst wood burning stove warmth. Maybe Justin & Linda have it easy after all



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&#8211; just imagine instead carrying 3 x 30Kg Victron Mutiplus inverter/chargers up a 2,000 m mountain before even beginning to read the manuals&#8230;

Simigoan is a village in the Nepal Himalaya, at around 2,000 metres elevation. It is situated above the Tama Koshi River along the trekking route to the Gaurishankar base camp a common route and area that is used by mountaineers to practice and train before tackling serious climbs. The locals believe that the village was established when nomadic people from the &#8216;Tibetan side&#8217; crossed over into Nepal to hunt in the rich valleys, and on the way dropped some of the dried beans they carried for food. On the return they found the beans (simi) had grown into a thriving field of bean plants, so their ancestors decided to settle and establish the village (goan).

Today Simigoan is a small village of Sherpa and Tamang peoples, just a few of the many ethnic groups in Nepal. Here people earn a living from guiding, climbing or hauling during the trekking season, some operate small guest houses for the tourists going in and out of the GS base camp. Others have sons and daughters abroad in countries like Qatar and UAE who work as construction workers, nannies and maids.

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