

# Regenerative Hybrid Power System

RHPS

## HGM

Hydrogen generator converts renewable energy into hydrogen.

## Power Generator

- Stores Hydrogen.
- Converts Hydrogen to AC or DC power.

## Advanced Features

- Patented design on stores and releases hydrogen.
- Flexible Configuration.
- High Reliability.
- Low Emissions.
- Room Saving.
- Highly integration.

## Applications

- Village Power
- Low Emission Power
- Stand-alone Power
- Backup Power



The Regenerative Hybrid Power System (RHPS) is a highly integrated system which stores intermittent renewable energy and delivers reliable electric power. It is most useful to serve as a stand-alone power system for remote area, or as an UPS for Telecommunication base stations. The system takes power from renewable sources, such as wind turbines or PV, splits water into Hydrogen via water electrolysis, and stores Hydrogen in metal hydride canisters. Hydrogen then feeds into fuel cells to produce electricity whenever electric power is needed. The RHPS comprises a Water Electrolyser, Metal Hydride Canisters, a Fuel Cell Module, Inverters, a Control Unit, and all necessary accessories to meet both functionality and safety requirements. The power output and power durations can be tailored to suit all kinds of applications. The RHPS is a cost-effective solution for low emission power systems

Project participated: A mobile office on campus

