

GREEN POWER

anytime | anywhere

A revolution in rural electrification is happening. H2Energy, the solar H2 hydrogen fuel cell energy generation systems have been designed to provide sustainable and uninterrupted power to rural communities (settlements, facilities and work sites) and can be deployed in even the remotest of location.

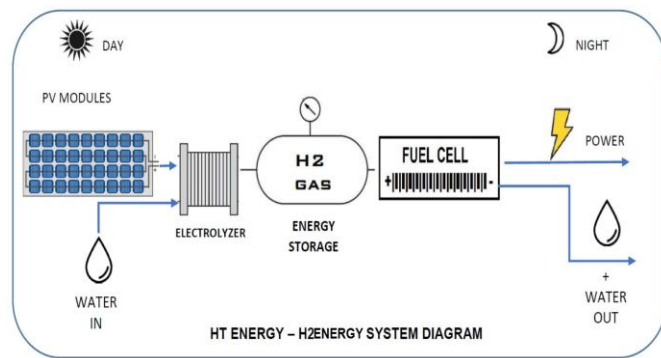
An Off-Grid Electrification Solution and How It Works

- A storage ENERGY technology which can integrate into any renewable energy sources.
- Consists of interchangeable components: ELECTROLYZER, LTs (long term) storage in H2 gas, STs (short term) storage + SDEMS Energy management Apps & Control electronics.

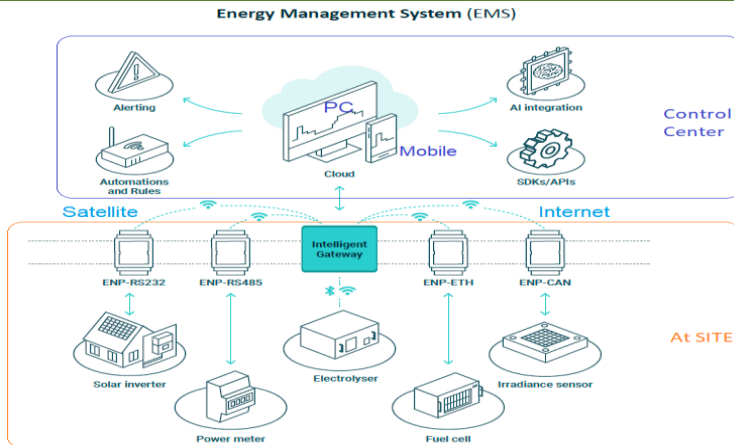
How it works...

Daytime ▶ H2E Electrolyzer produce Hydrogen by Electrolysis of water, during daytimes when the RE production is in EXCESS. The energy harvested is stored as Hydrogen gas.

Nighttime ▶ H2 is drawn from gas tank to feed into fuel cell where it combines H2 and O2 (from atmospheric) to produce electric power.



Aided by Software Defined Energy Management System (SDEMS)



✓ Controlled through smart software. SDEMS is a comprehensive, fully integrated power electronics hardware and software platform that delivers utility grade power from any combination of DC or AC sources including 100% renewable generation and storage.

✓ Able to integrate multi-vendor equipment to manage MPPT, PV charging, inverting, safeties, switching, control, logging and monitoring.

Key Features

- Sustainable & Circular
- 24/7/365 Power Supply
- Cost Competitive
- Modular, compact & transportable
- Scalable/customisable
- No Noise/Air Pollution

Key Benefits

TRANSFORMING ENERGY SYSTEM TOWARDS NET-ZERO

