

# Off-grid Energy Storage System 10Kwh Retopon Energy Technology

How much hydrogen can be stored in an off-grid power system?

When only hydrogen is employed to store the surplus renewable energy, a  $H_2$  storage rated capacity of slightly more than 9500 kWh is required (C4). The hydrogen storage capacity is around three times lower when both batteries and hydrogen are included within the off-grid power system (C8).

Why is energy storage important for off-grid communities?

There is thus a huge global potential, in remote areas, for exploiting local renewable energy sources (RES) in place of fossil generation. Energy storage systems become hence essential for off-grid communities to cope with the issue of RES intermittency, allowing them to rely on locally harvested RES.

What is electrical energy storage (EES)?

When dealing with RES, electrical energy storage (EES) technologies become key system components to make the community energy autonomous. EES devices allow in fact to match load and supply, thus solving the problem of intermittency of locally harvested RES, .

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