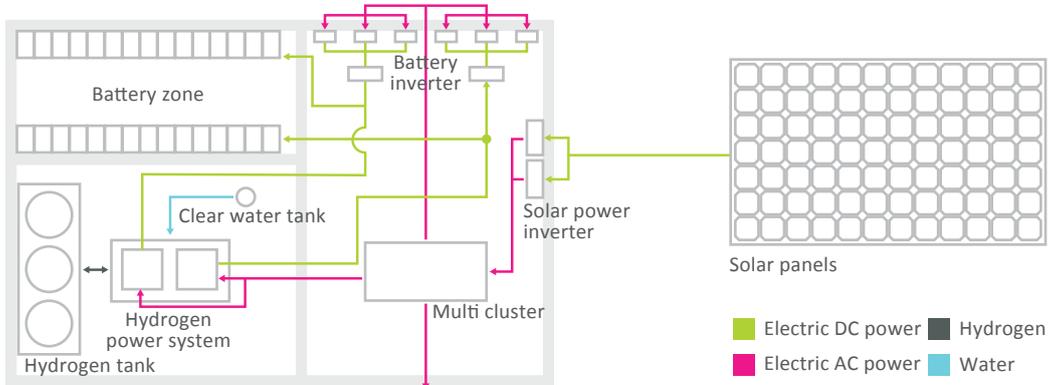


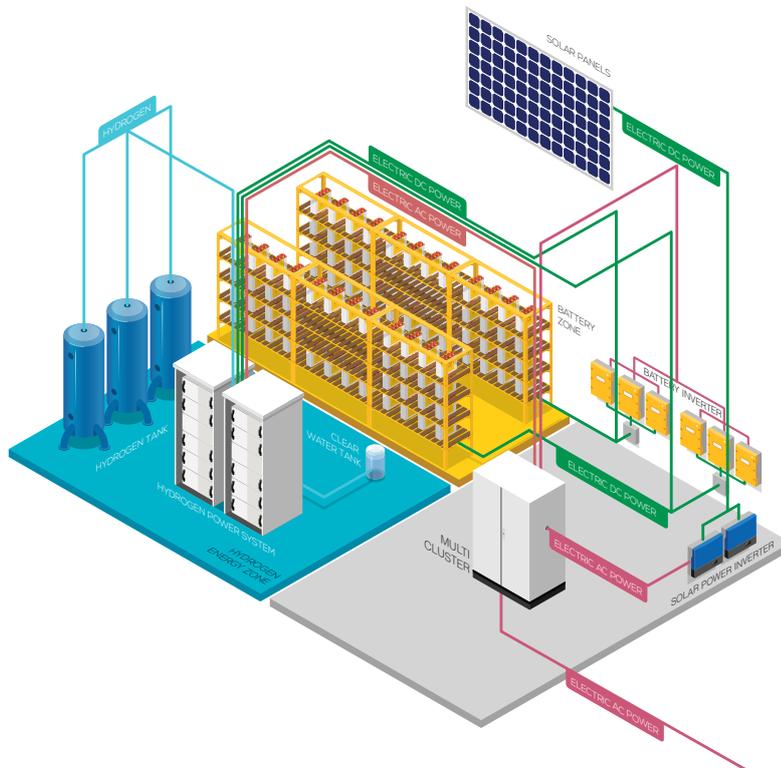
ENERGY SYSTEM

Solar Powered Hydrogen Storage System

PV POWER / HYDROGEN ENERGY STORAGE / BATTERY

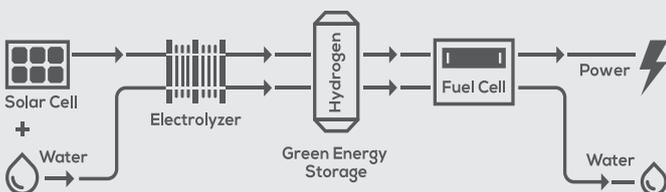


PV installed:	86kW
Average daily power production:	326.8kWh
Phi Suesa House energy demand:	6000kWh monthly
Battery:	2x 2000Ah, 48V lead-acid battery banks
Hydrogen gas production rate:	max. 2000 litres/hour
Hydrogen storage capacity:	90,000 litres of H2 at 30 bar, equivalent to 130 kWh in the fuel cell



☀ DAY

🌙 NIGHT



Day Time

- The electricity that solar panels generate is direct current (DC power).
- Electrolyzer generates Hydrogen and Oxygen from water.
- We store Hydrogen in a tank but Oxygen gas goes in the air.

Night Time

- A solar inverter converts the electricity (DC power) from Hydrogen into alternating current (AC power) that can be used for your TV, computer, etc in your house.