Solar Powered Hydrogen Storage System

**PV POWER / HYDROGEN ENERGY STORAGE / BATTERY**

PV installed: 86kW
Average daily power production: 326.8kWh
Phi Suea 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 Time**
- The electricity that solar panels generate is direct current (DC power).
- Electrolyser 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.