Crossing the time and border, We are now starting a new adventure to save the Earth with KWaterCraft.









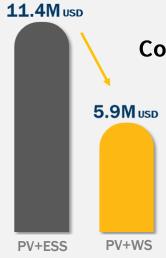


Carbon Net-zero

3,650 ton/year of CO₂ reduction

- Zero carbon footprint
- 100% renewable energy sources
- | Energy recycling system





Cost-Effectively Large System

47.6% cost-saving

Long duration energy storage | (LDES)

Hydrogen ESS, Safe energy | Storage

Cost-Effective



Highly Efficient System

70.4% (WaterStation)

- High efficiency electrode technologies
- A-IoT based energy control





Process



- Water quality secure through advanced purification treatment
- Supply drinkable water if wanted

2. Hydrogen production and storage

- Alkaline water electrolysis system driving power supply through solar cells
- Hydrogen storage through purification

3. Energy production and utilization

- Energy production through PEMFC fuel cell
- Energy produced is stored in a battery and used for power generation



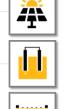
4. Utilization of heat water and oxygen

- 60°C water production through PEMFC fuel cell (over 10kW)
- Oxygen production through water electrolysis system

A-IoT based remote control, efficient energy management and securing safety

Integrated energy management platform







Alkaline Water Electrolysis

Energy Storage System

Fuel Cell



10kW WaterStation Specification



Power Max. H₂ production 7.6 kg/day 10 kW

Durability Max. Power capacity 20 years Max. 224 kWh/day Max. Required H₂O 76 L/day

Required renewable energy 75 kW

Max. CO₂ reduction 37.6 Ton co₂/year

^{*} High-capacity power generation of up to 1MW is possible through modular build-up.