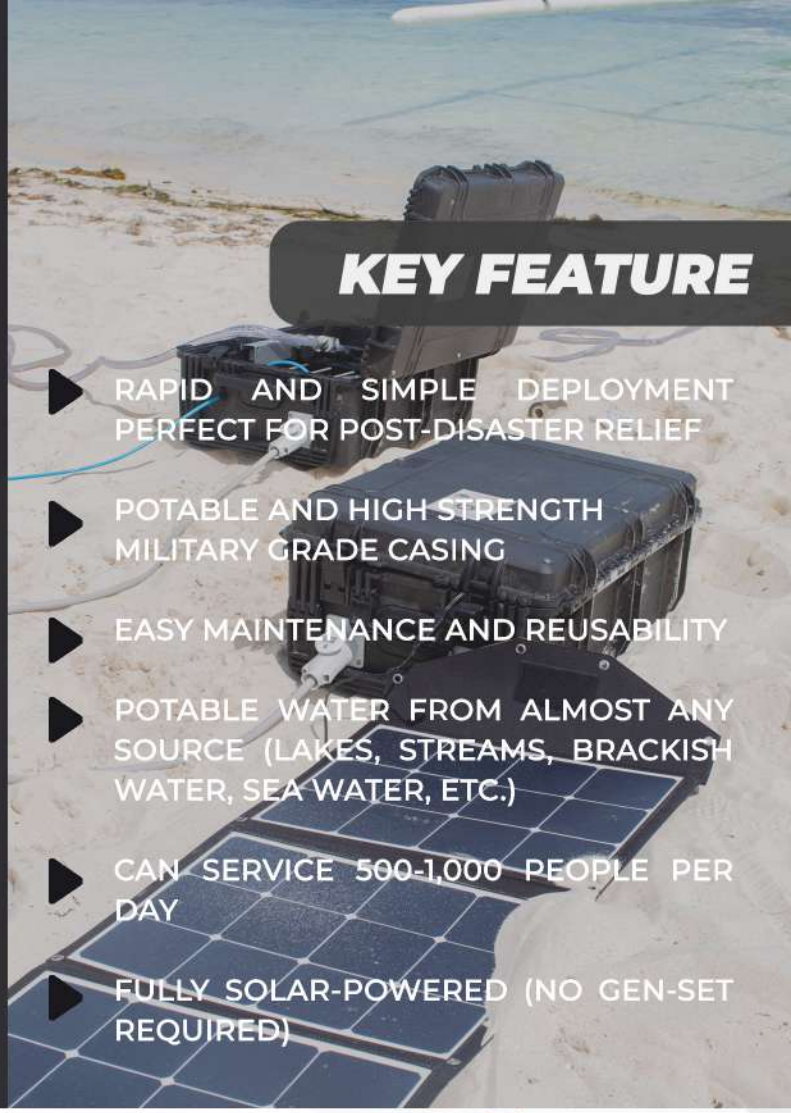
NXTLVL
Water

EWR

The *Emergency Water Response* unit or EWR is a portable water solution made to directly address potable water needs specifically in post-disaster scenarios.

Designed for rapid deployment, the EWR units are encased in military grade suitcases and are self-powered using only the built-in solar and battery package to avoid reliance on generators & fuel which are often not available in typhoon aftermaths.

Each EWR unit can produce high quality potable water from almost any water source (e.g. sea, river, pond, lakes, brackish water, etc.) for up to 1,000 individuals on a daily basis.



KEY FEATURE

- RAPID AND SIMPLE DEPLOYMENT PERFECT FOR POST-DISASTER RELIEF
- POTABLE AND HIGH STRENGTH MILITARY GRADE CASING
- EASY MAINTENANCE AND REUSABILITY
- POTABLE WATER FROM ALMOST ANY SOURCE (LAKES, STREAMS, BRACKISH WATER, SEA WATER, ETC.)
- CAN SERVICE 500-1,000 PEOPLE PER DAY
- FULLY SOLAR-POWERED (NO GEN-SET REQUIRED)

TECHNICAL FEATURE

EWR 50

Capacity:	1200 liters per day - 13.2 Gal/hour
Power Supply:	12 VDC
Consumption:	240 W - 20A
Weight:	48kg - 106 lb
Membranes:	n.2 2.5" x 21"
Filters:	50 mesh strainer - 5 micron melt down 5" x 2.5"
Inlet Hose:	i.d 16mm length 10 mt
Discharge Hose:	i.d 16mm length 5mt
Permeate Hose:	i.d 16mm length 5mt
Suction Capacity:	horizontal 10mt - vertical 1mt

***EWR50 comes with an EWR Powerbox solar add-on for off-grid usage.**

POWER BOX

Capacity:	200Ah
Battery Type:	Lithium-ion (LiFoP04)
Stored Energy:	2560Wh
Nominal Voltage:	12.8 V
Weight:	35kg
Safety Features:	Overload, Short - circuiting, Temperature
Solar Panel Power:	200 Watt
Solar Panel Voltage:	12 VDC
Solar Panel Cells:	6x12
Solar Panel Dimension: (Unfolded)	1240mm x 930mm

NXTLVL
Water

HYDRA

The Hydra is a fully turnkey system, which features highly energy efficient key technology that is able to reuse and recycle the salty water flow of the reverse osmosis process.

Designed to be modular, housed within a 30-50 sqm concrete structure, the Hydra produces high quality potable water using a cutting edge pressure exchange technology that captures energy of the pressurized brine outflow back into the system, which enables efficient small scale water production.

Solar integration is also done for sustainable off -grid power — especially for island deployments or areas that do not have stable or cost-efficient electricity sources. This means a reduced cost and use of fossil fuels and grid electricity for operation, making it a sustainable solution using unlimited renewable resources of the sea and sun.

KEY FEATURE

- LOWEST COST OF SEAWATER OR BRACKISH WATER TREATMENT
- CONSISTENT HIGH QUALITY WATER OUTPUT
- RESILIENT TO EXTREME WEATHER
- DEPLOYABLE AND OPERATIONAL WITHIN 5 MONTHS
- LABOR - EFFICIENT OPERATIONS AND INNOVATIVE WATER
- PLUG-AND-PLAY DESIGN WITH REMOTE MONITORING AND
- LOCALIZED SUPPLY CHAIN & SPARE PARTS
- SOLAR-POWERED WITH CAPACITIES: 5KLPD, 11KLPD, 22KLP

HYDRA ADVANTAGE

Power Savings Technology

- **100% energy savings** for fully solarpowered Hydra.
- Can **run up to 3 days** only using stored solar power (battery)
- Ultra-efficient desalination process, **less than 3.5 kWh per cubic meter** produced

Cost Effectiveness

- **100% Self Sufficient:** water sales at extremely low prices (e.g PHP 7.oo per 5 gallon jug vs normal PHP 25.00) can cover maintenance, operator saleries, all other operating costs
- **Upfront costs up to 70% cheaper** versus Other self-powered desalination.

Community Impact

- **Massive consumer savings:** water produced by Hydra sold for as PHP 5.00 per gallon jug (PHP 7.00-10.00 per jug recommended. maintenance, operator saleries, all other operating costs
- **Reduces reliance on unsafe water sources** such as rainwater.

Environmental Sustainability

- **100% environment friendly:** only inputs to sytem are sea and sun.
- **Proprietary well designs** for input and brine outflow ensure no visible change to beach/ shorefront.
- **Zero measurable change to sea ecology/ salinity** due to micro-scale modularapproach to desalination.

Disaster Resilience

- **Proven resilience to typhoons:** Hydra systems have fully survived Level 4 typhoons with next-day operability.
- **Solar self-power** allows for operation even if no other power or fuel exist.

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