



**NXTLVL**

Water



# NXTLVL Water

We are a Filipino water company that aims to eradicate the **potable water** crisis in islands & coastal areas, and to strengthen clean water security across the country. We do this through a focus on:

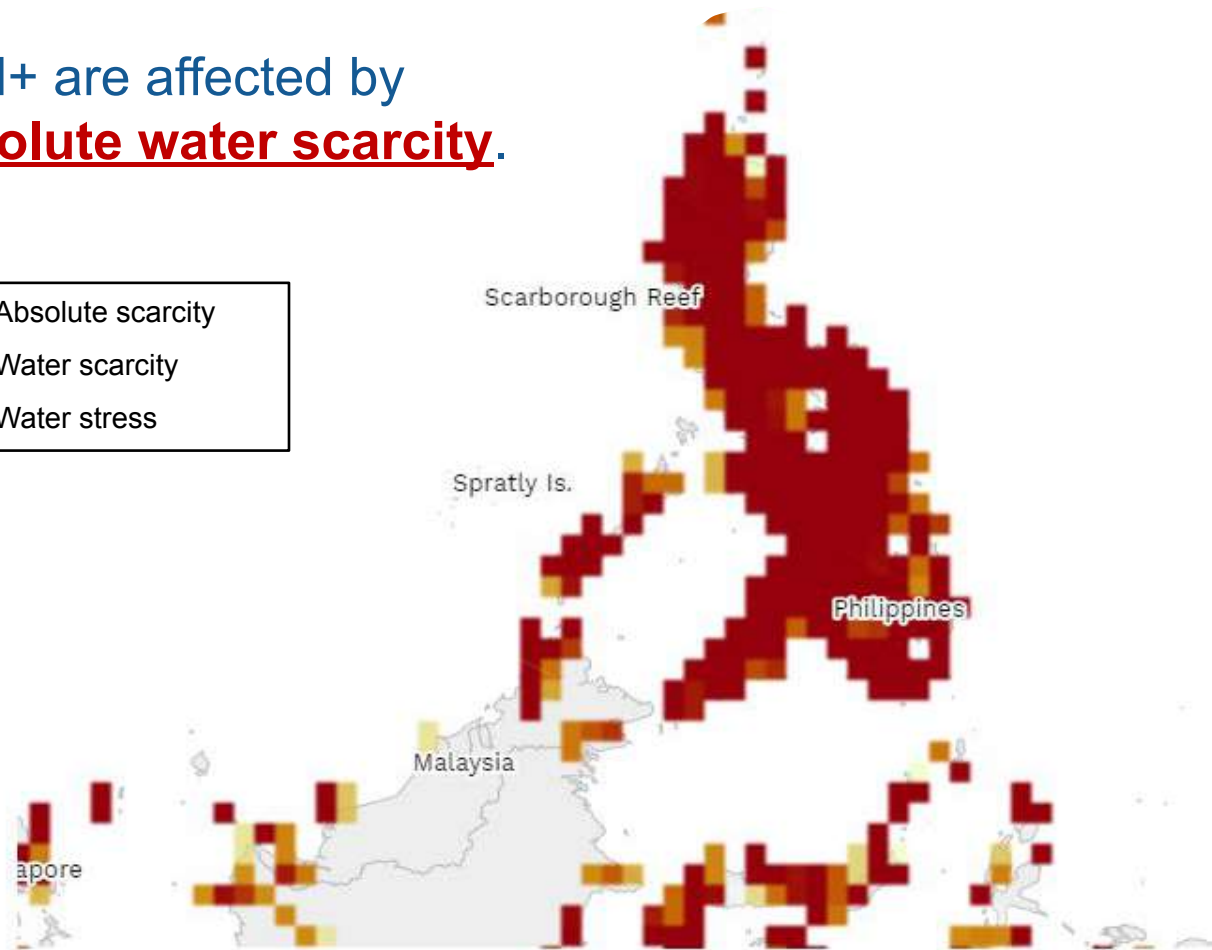
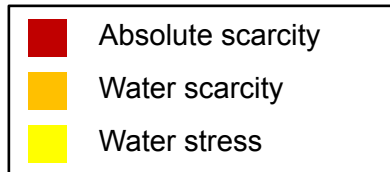
- Fit-for-purpose technological innovation
- Cost-accessibility to the poorest populations
- Environmental sustainability



# Over 42M Filipinos experienced water stress in 2020



26M+ are affected by **absolute water scarcity**.



<sup>1</sup> Water availability in the Philippines during the driest month (April). Image from <http://worldwater.io> March 2, 2021 13:24 PST+8

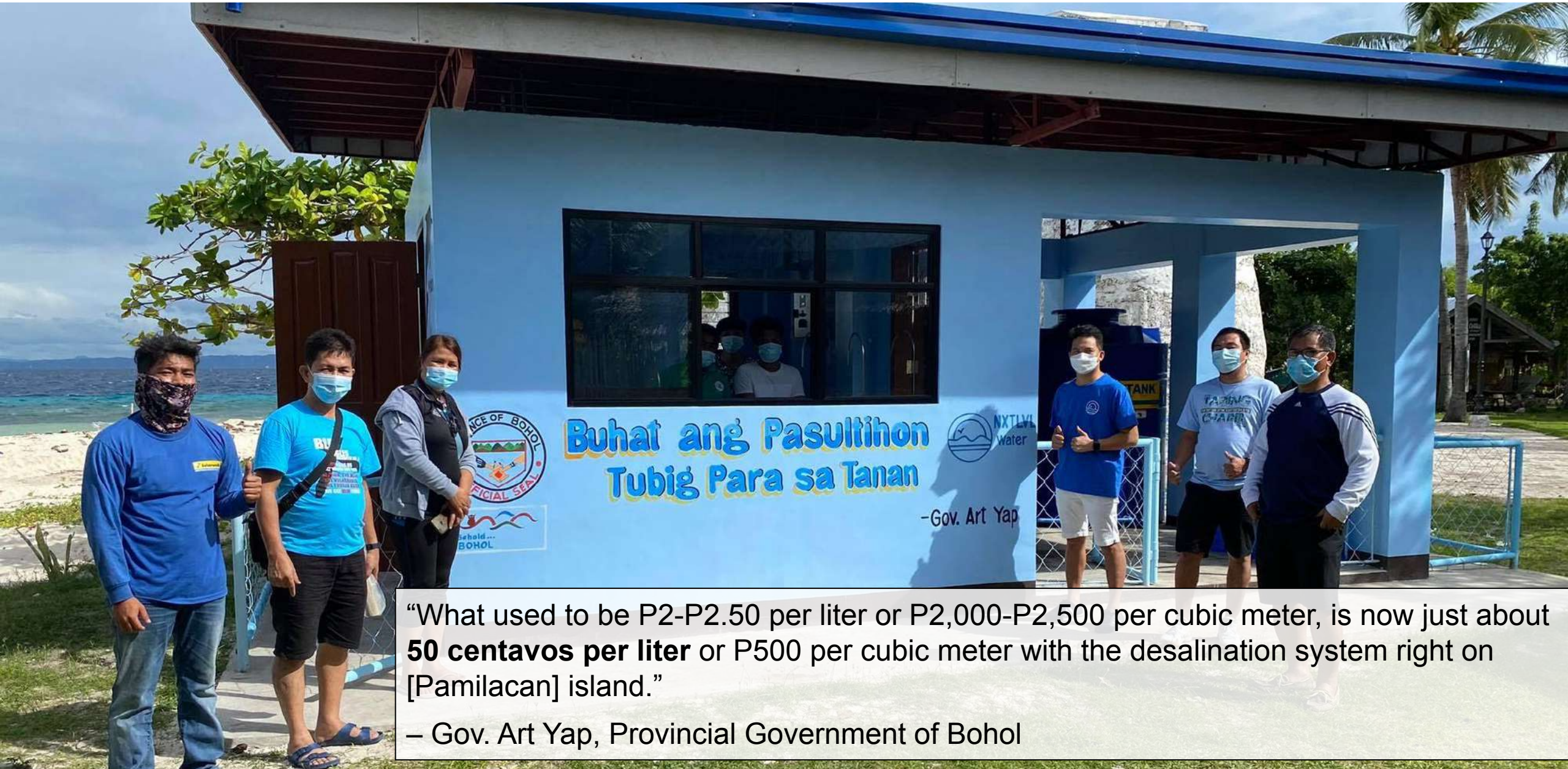
# There are Three Main Causes of the Water Problem



- 1 Inadequate modern water infrastructures leading to water insecurity and interruptions**  
Clean water supply vulnerable to disruption and contamination, esp. during natural disasters.
- 2 Alarming depletion of freshwater resources**  
Some negative effects of groundwater over-extraction are saline intrusion and decline of water quality.
- 3 Desalination & other seawater treatment methods traditionally expensive**  
Energy costs of treating seawater traditionally very expensive, can cost up to PHP 90 per 5 gallons <sup>1</sup>

<sup>1</sup> Patrick Lester N. Ty, Chief Regulator, MWSS Regulatory Office via <https://www.pna.gov.ph/articles/1081347>

# Introducing the NXTLVL Hydra



“What used to be P2-P2.50 per liter or P2,000-P2,500 per cubic meter, is now just about **50 centavos per liter** or P500 per cubic meter with the desalination system right on [Pamilacan] island.”

– Gov. Art Yap, Provincial Government of Bohol

# NXTLVL Addresses The Three Main Problem Factors



## Issue

---

- 1** Inadequate modern water infrastructures leading to water insecurity and interruptions.
- 2** Alarming depletion of freshwater resources.
- 3** Desalination & other seawater treatment methods traditionally expensive.

## NXTLVL Solution

---

### **Modular and Resilient, Award-Winning Design**

Compact and rapidly deployable even to remote islands;  
Can operate even during typhoons & extreme weather conditions<sup>1</sup>

### **Undepletable, Sustainable Resources.**

Seawater is an abundant and consistent source. Solar power utilized to generate required energy.

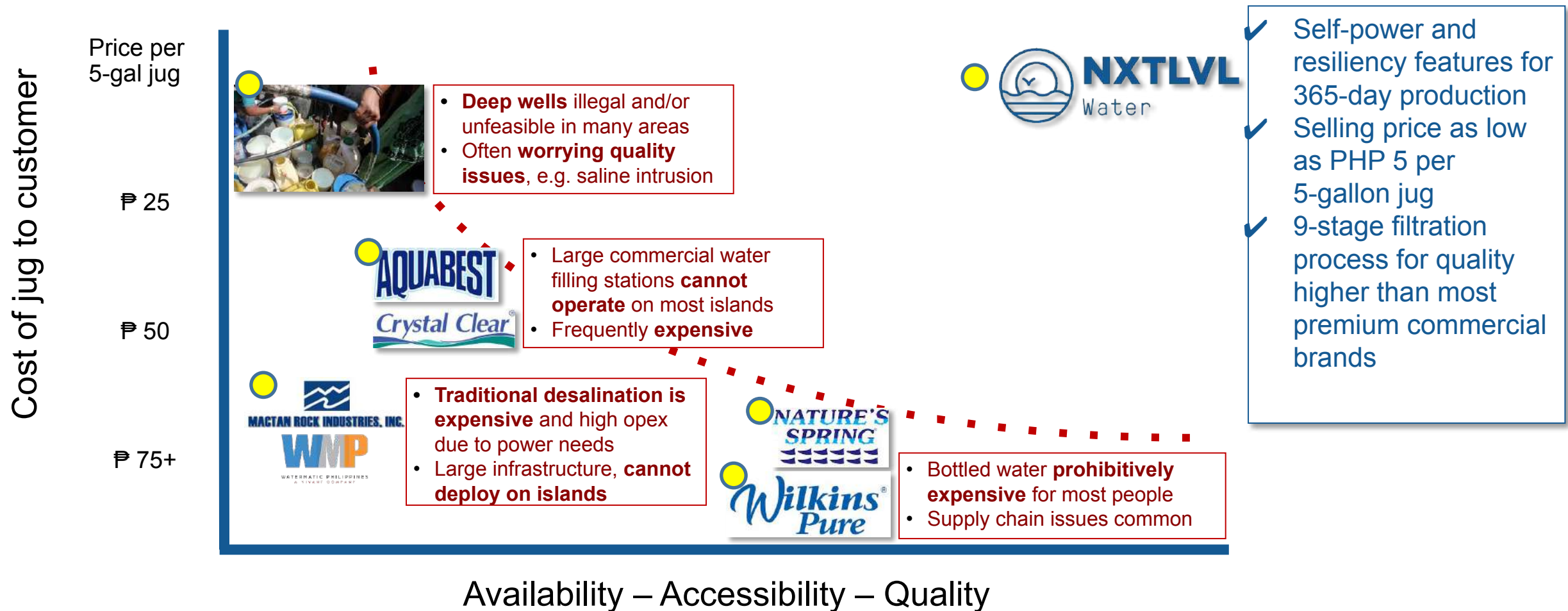
### **Cost-Efficiency for the End-Consumer**

Save 75% or more on power & electricity costs  
Incorporate potable water treatment & distribution facilities for ease of use

# Hydra breaks through the Cost-Availability Barrier



Existing solutions trade off cost and quality/availability. NXTLVL solves both.



# NXTLVL Hydra: Technology Benefits



## Key Tech Features

- **5,000-88,000 liters per day** year-round of potable water from unlimited renewable source: the sea
- **100% solar-powered** for zero net energy costs
- **Small footprint** (<50sqm) modular systems
- **Lowest cost** of seawater or brackish water treatment at sub-100m<sup>3</sup> per day scale through award-winning **energy recovery device**
- **High quality** output beyond WHO Standard
- Typhoon and **extreme weather resilience**
- **Turnkey**; localized supply chain & deployment for small islands
- **Labor-efficient operations** and potable water distribution model
- **Remote monitoring** and maintenance

## Tech Partners / Recognition



ImpactCity



Climate-KIC



TU Delft



Mohammed bin Rashid  
Al Maktoum  
Global Water Award



# NXTLVL Systems in the Philippines



San Juan, La Union  
11klpd, hybrid 60% solar, 30% grid



Tanza, Cavite  
11klpd, hybrid 60% solar, 30% grid



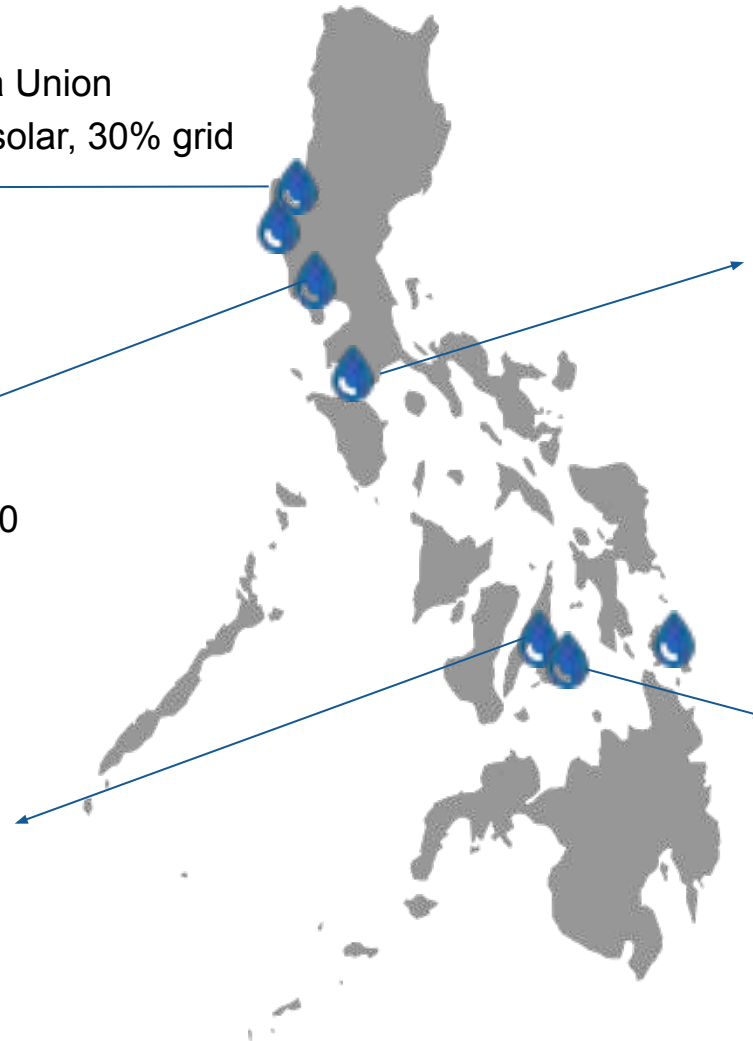
Pampanga  
EWR 30 & EWR 50



Pamilacan, Bohol  
5klpd, 100% solar



Pandanon, Bohol  
5klpd, 100% solar



# NXTLVL Hydra Systems in Bohol



<b>Locations</b>	Pandanon Island Pamilacan Island
<b>Housings</b>	48 sqm concrete structures
<b>Capacities</b>	5,000 liters per day
<b>Pop. served</b>	3,500 island residents
<b>Water Intake</b>	10 ft beach well
<b>Energy</b>	100% solar-powered
<b>Selling price per 5 gallon jug</b>	<b>Php 5.00</b>
<b>Distribution channels</b>	Site walk-ins Distribution partners

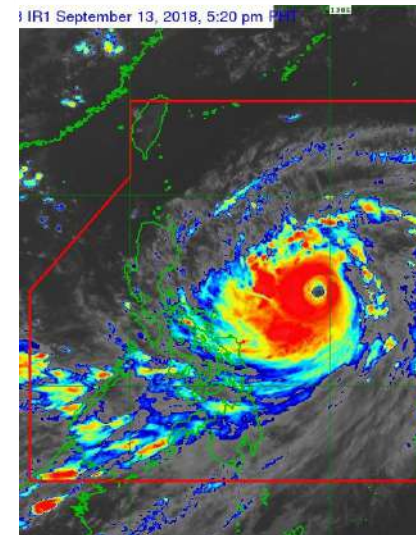


*In partnership with the Provincial Government of Bohol*

# NXTLVL Hydra System in La Union



<b>Location</b>	Urbiztondo, San Juan
<b>Housing</b>	20-ft shipping container
<b>Capacity</b>	11,000 liters per day
<b>Water Intake</b>	90 ft deep beach well
<b>Energy</b>	60-30% solar-grid hybrid
<b>Selling price per 5 gallon jug</b>	<b>Php 10.00</b>
<b>Distribution channels</b>	Site walk-ins Distribution partners



Typhoon Ompong



Across the street



NXTLVL Hydra Site

# NXTLVL Solution for Disaster Relief: Emergency Water Response System (EWR)



- Potable water from almost any source (lakes, streams, brackish water, sea water, etc.)
- Fully Solar-powered (no gen-set required)
- Rapid and simple deployment perfect for post-disaster relief
- Portable and high strength military grade casing
- Easy maintenance and reusability
- One EWR system can service **500 to 1000 people per day**



Available in 2 versions: **EWR30 & EWR50**



# Technical Features of EWR Systems



## EWR30

<b>Capacity:</b>	720 liters per day – 7.8 Gal/hour
<b>Power Supply:</b>	12 VDC
<b>Consumption:</b>	110 W – 9 A
<b>Weight:</b>	38kg – 84 lb
<b>Membranes:</b>	n.1 2.5" x 21"
<b>Filters:</b>	50 mesh strainer – 5 micron melt blown 5" x 2.5"
<b>Inlet Hose:</b>	i.d. 16mm length 10mt
<b>Discharge Hose:</b>	i.d. 16mm length 5mt
<b>Permeate Hose:</b>	i.d. 16mm length 5mt
<b>Suction Capacity:</b>	horizontal 10mt – vertical 1mt

## EWR50

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

## EWR Powerbox

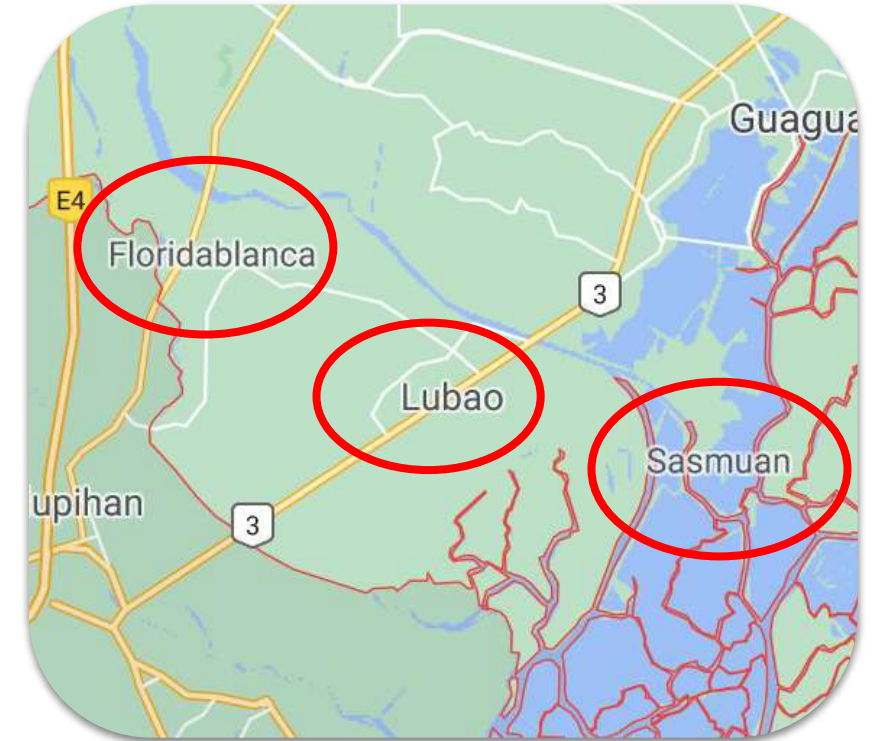
<b>Capacity:</b>	40 Ah
<b>Battery Type:</b>	Lithium-ion (LiFoPO4)
<b>Stored Energy:</b>	512 Wh
<b>Nominal Voltage:</b>	12.8 V
<b>Weight:</b>	25kg
<b>Safety Features:</b>	Overload, Short - circuiting, Temperature
<b>Solar Panel Power:</b>	120 Watt
<b>Solar Panel Voltage:</b>	12 VDC
<b>Solar Panel Cells:</b>	3×12
<b>Solar Panel Dimension (Unfolded):</b>	1280mm x 540mm

*Both EWR30 & EWR50 comes with an **EWR Powerbox** solar add-on for off-grid usage*

# NXTLVL EWR Case Study: Pampanga



A total of five EWR systems were deployed to three different municipalities in Pampanga (Sasmuan, Floridablanca, Lubao) for purposes of DRRM use by the LGUs. The EWR systems will **service up to 4500 Pampangeños** with high quality potable water in times of disaster.



[Click here to see EWR in action](#)



Turnover of EWR and Powerbox



On-site demo with NXTLVL Team



Testing of EWR box in a creek



# NXTLVL Water Partnerships



Embassy of the  
Kingdom of the Netherlands







# NXTLVL

Water

Address: 2288 Chino Roces Avenue, Makati City, PH

Website: [www.nxtlvlwater.xyz](http://www.nxtlvlwater.xyz)

E-mail: [hello@nxtlvlwater.xyz](mailto:hello@nxtlvlwater.xyz)

Miguel Francisco “Paco” P. Caparas

Co-founder, Managing Partner

[paco@nxtlvlwater.xyz](mailto:paco@nxtlvlwater.xyz)

Kim Limpahan

Business Development

[kimberly@nxtlvlwater.xyz](mailto:kimberly@nxtlvlwater.xyz)

(+63) 917 336 4681



Click video to learn more.