blue currents
www.bluecurrents.co

Building On A Legacy

Improving Lives Together



Solarized Well Retrofit System

*From traditional wells to stronger, smarter water systems — **Trident Wells** enhances existing community wells with solar power, secure storage, purification, and monitored distribution, in a single 20' container*

Blue Currents builds resilience!

The Well Still Works, But...

The infrastructure around it has not evolved. More demand, lower efficiency, less impact.

Today's Challenges

- Long Lines Waiting For Water
- Manual Pumping Requires Massive Effort
- Limited Daily Water Production
- Water Quality Often Goes Unverified
- No Storage For Emergency Situations
- Difficult To Monitor After Installation
- Repairs Depend On Local Reporting
- Little Operational Data For Ministries

HOW TRIDENT WELLS SOLVES IT

AN ENGINEERED RESILIENCE UPGRADE

Instead of replacing existing pump wells, we enhance them. *Our retrofit approach preserves legacy investments while dramatically improving access, reliability, and public health.*



Existing Hand Pump



Solar-Powered Pump



Secure Storage System



Water Purification



Secure Distribution



Remote Monitoring

TECHNICAL SPECIFICATIONS

- ***Footprint**: 20' ISO container (20' x 8' x 8.5')*
- ***Water Storage**: 1,000 gal capacity (2 x 500 gal tamper-resistant tanks)*
- ***Purification**: Multi-stage 5-micron sediment, GAC carbob, UV disinfection, chlorine residual dosing*
- ***Solar Pump**: Solar submersible pump, rated to ~200 ft. head, dedicated 1.2kW array*
- ***Power**: 1.5 - 2.5 kW rooftop solar array + 10 kWh LiFePO4 battery bank*
- ***Distribution**: SmarTAP RFID/token-metered dispensing, up to 3 access points*
- ***Monitoring**: Cellular telemetry, turbidity/TDH/Ph sensors, remote dashboard*

BUILT FOR

- Rural Villages
- Schools
- Health Clinics
- Refugee Camps
- Diaster Recovery

The Impact Of Solarizing Existing Wells

MORE PEOPLE SERVED

Water available to more families, more of the time

GREATER RELIABILITY

Less downtime. more resilience in all conditions

BETTER HEALTH OUTCOMES

Softer water and improved hygiene reduce disease

SMARTER USE OF RESOURCES

Lower operating costs & long-term sustainability

blue currents

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Water Power Resilience Delivered Anywhere

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