

# Operational Scenario: Disaster Response

## Emergency Power and Water in Disaster Zones

AFB presents mobile power generation and energy storage for disaster response. Natural disasters often disrupt power and clean water access. Recovery efforts need mobile and rapidly deployable solutions.

### AFB Solutions



#### Solar Energy

A solar array with multiple options for generating capacity.



#### Energy Storage

An onboard battery system for storage and continuous power.



#### Fast Deployment

3 to 4 people can have the system up and running in 3 to 4 hours.



#### Mobile

Easily transportable by truck or air for rapid deployment and reuse.



#### Water Purification

On-board reverse osmosis water purification is included as a standard feature.

After a natural disaster, communities often face critical shortages of electricity and clean water. AFB's Disaster Response System integrates solar arrays, energy storage and water purification into a single, portable container. The system generates up to 75 kWh of electricity daily, powers emergency shelters and purifies drinking water for displaced populations. Designed for ease of transport and rapid setup, the container can be air-dropped and deployed in hard-to-reach areas.



#### Benefits:

- **Rapid Deployment:** Operational in 3–4 hours with minimal personnel.
- **Multi-functional:** Provides electricity and purifies up to 22,000 liters of water per day.
- **Adaptability:** Can operate independently or integrate with existing infrastructure.
- Provides clean water for thousands of people with reverse osmosis technology.
- Operates in extreme weather, with retractable solar panels (in 30 minutes) for protection.
- Reduces the reliance on diesel fuel, ensuring uninterrupted recovery operations.