

# Operational Scenario: Agriculture

## Powering Off-Grid Farms and Water Systems

AFB presents mobile power generation and energy storage for agricultural operations in remote areas that lack reliable electricity and depend on diesel generators for irrigation and processing.

### 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

Reverse osmosis water purification is available as an option to generate clean drinking water.

Farms in remote regions face power challenges for irrigation pumps, refrigeration and processing equipment. Diesel generators, though common, are costly and have limited reliability. AFB's mobile power generation and energy storage systems offer a scalable energy solution that combines solar arrays and industrial grade batteries to reduce reliance on diesel generators. They can power irrigation systems, improve refrigeration for perishable goods and allow the operation of agricultural processing units efficiently.



#### Benefits:

- **Reliable Power:** Ensures uninterrupted electricity for critical operations.
- **Cost-Effective:** Reduces operational costs compared to diesel.
- **Eco-Friendly:** Supports sustainable farming practices.
- **Reduces energy costs,** enabling reinvestment in farming activities.
- **Improves food security** by ensuring consistent refrigeration and processing.
- **Enhances sustainability** by reducing emissions and diesel dependency.