

Operational Scenario: Industrial Sites

Sustainable Power for Mining and Construction Sites

AFB presents mobile power generation and energy storage for industrial operations. Remote industrial operations and construction sites often require stable, long-duration power. Diesel generators are costly and prone to maintenance issues.

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 barge for rapid deployment and reuse.



Water Purification

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

Mining sites, construction projects and small commercial facilities require robust and reliable power systems to operate heavy machinery and support facilities or reliable backup power when the grid is unavailable. AFB's Diesel Replacement System offers a modular energy solution that reduces diesel consumption by up to 90%. The system's high renewable energy fraction (REF) ensures stability during high and variable daytime loads while maintaining consistent output at night.



Benefits:

- Scalability: Modular setup meets varying power needs.
- Efficiency: Up to 83% renewable energy fraction reduces diesel use.
- Durability: Operates efficiently in extreme temperatures.
- Lowers operational costs through reduced fuel usage and maintenance.
- Meets stringent environmental regulations by cutting CO2 emissions.
- Enables efficient redeployment to new project sites when operations move.