



Industrial off grid power systems

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Battle Born Batteries is the leader in LiFePO₄ batteries and provides the industry's best in solar panels and system components. We focus on supplying dealers, contractors, and industrial specialists located worldwide with dependable, cost-effective battery storage and solar system solutions. Because of our tried and trusted products and qualifications, we ensure the components in our systems are top-quality and reliable in any environment and any climate, making them suitable for utilities, oil and gas, and other markets that are dependent on continuous and reliable power.

With an extensive and experienced background, Battle Born Batteries' Industrial Solar Specialists have designed Pole Mounted and Ground Mount Off-Grid Solar Systems to power SCADA, smart meter monitoring, recreational vehicles, water management, outdoor lighting, site security equipment, and more. All Industrial Solar Systems are designed specifically for remote industrial off-grid applications and are built to withstand harsh environments and a wide range of climates.

Complete 12V and 24V Pole Mounted Industrial Solar Systems Kits are pre-assembled for various use cases and industries, including WiFi and Repeater Networks, Site Security, Area Lighting, Obstruction Lighting, Smart Meter Readers, and more.

Complete 24V and 48V Ground Mount Industrial Solar Systems Kits are pre-assembled for various use cases, including Cellular Towers, Railway Transportation Controls, Cathodic Protection, RTU, PLC, SCADA, and more. Systems are available using components from Victron Energy or Morningstar, and include the following products vetted by our Industrial Solar Specialists:

Our team has designed off-grid solar systems that have been installed at industrial sites across the globe, providing efficient, stand-alone solar power with the implementation of renewable energy and sustainable products.

Amid a global energy crisis where demand often outstrips supply, off-grid power systems are gaining significant traction. The limitations of traditional grid power, such as capacity constraints, lack of transmission infrastructure in remote areas, and the increasing electricity demand, have pushed many companies towards exploring alternative off-grid solutions. This shift toward off-grid power is not driven by convenience; it's in critical response to the evolving landscape where energy independence is pivotal.

Traditional grid energy systems, designed many decades ago, are now struggling to keep up with the modern world's voracious energy appetite. In other cases, especially in developing countries or remote locations, the infrastructure for grid power is underdeveloped or nonexistent. This gap in energy access has propelled a movement towards off-grid solutions, highlighting the importance of alternative sustainable energy sources.

Off-grid power systems, which generate electricity independently of the central grid, offer a viable power generation system alternative especially in places where extending the main grid is economically impractical or environmentally unsustainable. This shift to off-the-grid power is also a response to the increasing occurrence of power outages, driven by aging infrastructure, extreme weather events, and other factors affecting the reliability of grid power.

The rise of off-grid power systems reflects a broader societal shift towards sustainability and resilience. As technology continues to advance, these systems are becoming more efficient, more affordable, and more accessible, enabling companies and communities to decarbonize and take control of their energy needs, paving the way toward a more sustainable future powered by renewable energy.

Historically, diesel generators have been the mainstay of off-grid power systems, especially in scenarios where traditional grid power is inaccessible. These off-grid power generators have also been the backbone for generating electricity in remote locations, thanks to their reliability and robust power output. In regions where establishing grid energy infrastructure is impractical or cost-prohibitive, diesel generators have provided a critical energy source.

However, the use of diesel generators comes with significant drawbacks. First and foremost among these is their high carbon footprint. These off-the-grid power generators rely on fossil fuels and are known for emitting a substantial amount of greenhouse gasses, contributing negatively to the environment. The impact of diesel generators on the environment extends beyond carbon emissions; they also contribute to air and noise pollution, making them less favorable in environmentally sensitive areas, like wetlands, coral reefs, or endangered species habitats.

In addition to environmental concerns, diesel generators pose economic challenges. The cost of diesel fuel is subject to market fluctuations, leading to unpredictable operational costs. In remote or isolated communities, where fuel transportation can be difficult and expensive, relying on diesel generators can be particularly costly. The maintenance and operational costs associated with diesel generator off-grid power generators can also be substantial, involving ongoing servicing, repairs, and replacement of parts, which adds to the total cost of ownership.

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