

SOLAR POWERED RENTAL SOLUTIONS

Working towards a sustainable future



byrnerental.com

Solar Powered Temporary Buildings



Byrne Equipment Rental provides eco-friendly, cost-effective and adaptable solar-powered solutions for various projects to help reducing carbon footprint.

These solar panels offer numerous benefits, including:

Clean Energy - Utilizing solar energy reduces conventional energy consumption, promoting sustainability.

Off-Grid Capability - Buildings operate off-grid, ensuring continuous power supply in remote locations.

Cost-Efficiency - Solar-powered buildings significantly reduce energy expenses, aligning with financial objectives.

Reliability - Our solution ensures continuous power supply even in bad weather conditions.

Environmentally Responsible - Choosing solar-powered options demonstrates a commitment to sustainability, reducing impact on the environment.

Customization - Buildings are available in various sizes and configurations to meet specific project needs.

Less Noise Pollution - By utilizing solar power instead of running generators for 24 hours, creates a quieter working environment.

Smart Integration - Buildings integrate smart technology for efficient energy management and remote monitoring.

Minimized Operation Time & Efforts - With solar-powered buildings, there's no need for frequent refueling of generators, saving time, effort and typically maintenance.

These solutions not only reduce carbon footprint but also provide efficient, cost-effective and flexible temporary building options.

We provide both solar solution with battery or without battery to meet your needs.



Solar Solution - without battery

Daytime

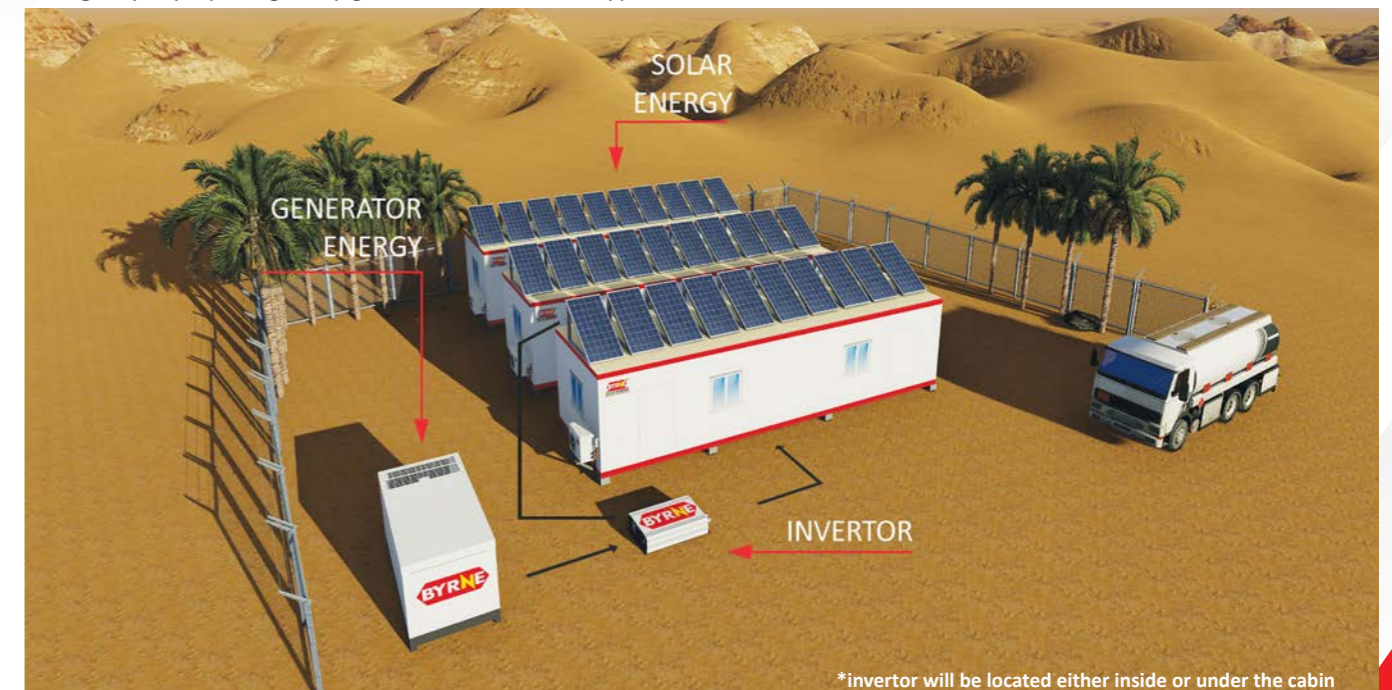
- Primary reliance on solar energy for power requirements, with solar panels converting sunlight into electrical energy.
- The inverter supplements power supply from generators if solar production is insufficient.
- Automatic on/off control of generators based on actual load demand and solar contribution.
- Seamless power supply management to avoid disruptions.

Night-time

- Smooth transition to generator power during night-time hours.
- Consistent and uninterrupted energy supply throughout the night.
- Dependable power infrastructure for night-time requirements.

| Key Features - 100 solar panels | Key Benefits |
|--|--------------|
| Fuel saving per month (liters)* | 2,611 |
| CO ₂ saving per month (KG)* | 6,996 |

*Savings may vary depending on daylight hours, environment and application.



*inverter will be located either inside or under the cabin

Solar Powered Temporary Buildings

AS SOON AS THE BATTERY IS FULLY CHARGED, THE GENERATOR WILL AUTOMATICALLY TURN OFF AND THE UNIT WILL BE POWERED SOLELY BY THE BATTERY.

Solar Solution - with battery

Daytime

- Solar power efficiently charges the integrated battery pack, serving as a primary energy source.
- Continuous power supply from solar energy, with any excess charge directed to the battery for storage.
- Battery seamlessly takes over in case of solar output fluctuations, ensuring uninterrupted power.
- Automated generator activation in case of battery discharge to a predetermined level, maintaining a consistent power supply.
- Proactive generator intervention prevents any power disruption, even during suboptimal weather conditions.

Night-time

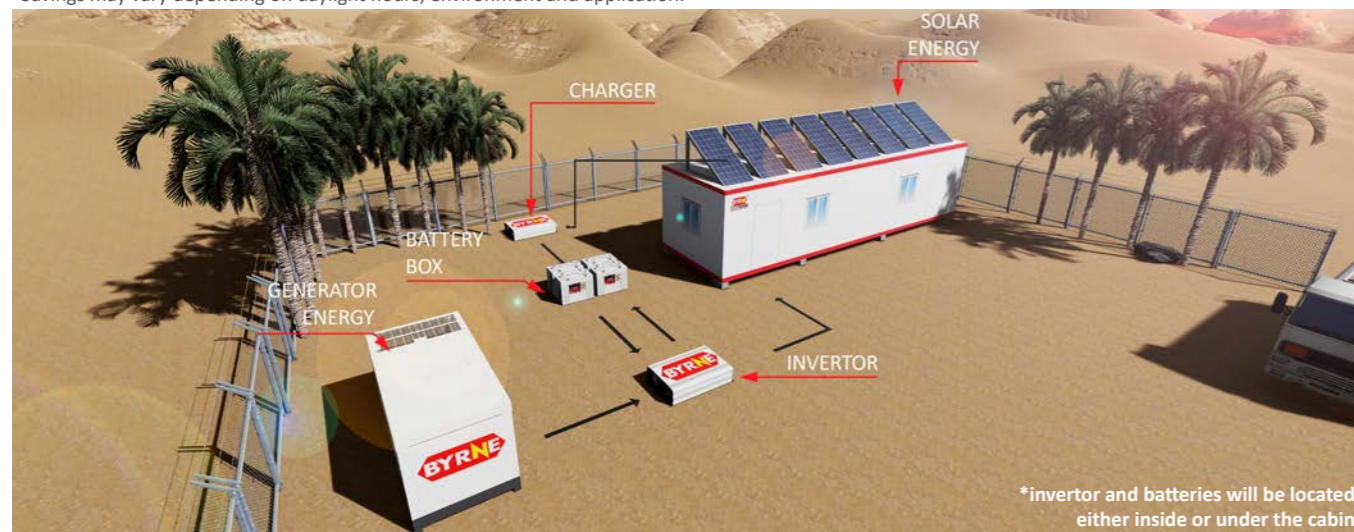
- Battery pack becomes the primary power source during night-time hours.
- Consistent power delivery from the charged battery pack throughout the night.
- Automatic initiation of generators when the battery discharges to a specific level, ensuring a swift recharge.
- Uninterrupted power supply with the seamless transition between battery and generator power.
- Robust system design guarantees a continuous and reliable power infrastructure without disruptions.

Key Features - 10 solar panels on 40' Temporary Building

Key Benefits

| | |
|--|-------|
| Fuel saving per month (liters)* | 1,080 |
| CO ₂ saving per month (KG)* | 2,894 |

*Savings may vary depending on daylight hours, environment and application.



*inverter and batteries will be located either inside or under the cabin



Solar Powered Camp Solutions



*inverter will be located either inside or under the cabin

Solar Powered Lighting Towers



Incorporating efficient lighting technology, Byrne Equipment Rental's solar lighting towers offer innovative and eco-friendly illumination solutions, boasting the following features:

- Fast and easy to set up
- Perfect for outdoor requirements
- Solar panels and battery isolator running the LED lights for up to 13 hours
- Extendable telescopic hydraulic mast up to 6.5m providing a wide range of and 117km/h wind rating



| Key Features | Key Benefits |
|--|--|
| 4 x 150W LED flood lights | Renewable and sustainable energy source |
| Manual control | Cost-effective |
| Set Timer control | Quiet and emission-free operation |
| Dusk/dawn sensor control | Increased reliability and durability |
| Battery isolator | No fuel or servicing required |
| 90,000 lumen's | Quick and easy installation |
| Road tow-able | Low maintenance |
| Easily removable toe-bar | 7 x units per trailer for transportation |
| Fuel saving per month (liters)* | 720 |
| CO ₂ saving per month (KG)* | 1,930 |

*Saving is compared to traditional MH lamp lighting tower and may vary depending on daylight hours, environment and application.

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