



THE  
NEXT GENERATION IN  
MOBILE POWER



## AT A GLANCE

WestGen is a power systems innovator with expertise in the design, engineering, manufacturing and installation of solar and hybrid power systems and microgrids. Our systems provide consistent and reliable power supply for all types of commercial, industrial and emergency applications. Our solar generators and solar light towers are clean, quiet and far more economical to operate than comparable diesel generators and light towers.

Our mobile equipment is built on heavy-duty, off-road capable and air-liftable platforms. Our stationary equipment is integrated into heavy-duty, weatherproof containers; making it ideally suited for many applications. Low maintenance requirements, low fuel consumption and an ability to run with no fuel at all make it highly resilient.

- Equipment Design and Manufacturing
- Modular Mobile Products from 1.5kW to 200kW
- Stationary Solar Hybrid Microgrids
- Solar Light Towers
- Custom Equipment (min order size and value)
- Remote Monitoring, Technical Support, O&M support

“ Westgen systems provide consistent and reliable power supply for all types of commercial, industrial and emergency applications. ”



## WestGen Hybrid 25

### High Performance Solar Hybrid Generator

Rugged, weather resistant aluminum design suitable for all locations, conditions, and applications that require low-maintenance, renewable power supply. Single axle, off-road capable trailer with high ground clearance and departure angle. Equipment can be easily secured and/or relocated during an adverse event, like a hurricane, and be quickly redeployed afterwards.

- 6.2kW telescoping solar array
- 40kWh usable battery storage (LiFePO4)
- 30kW Surge / 25kW Peak / 18kW continuous capacity
- Integrated diesel generator/charger with programmable quiet time
- 100gal integrated fuel tank



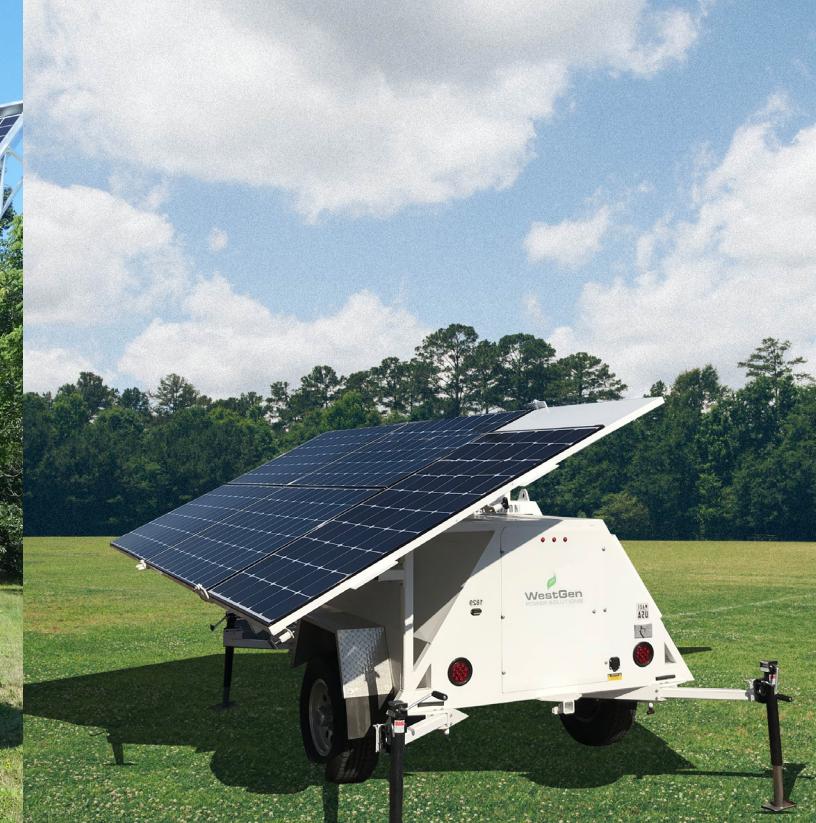
## Mobile Solar Module

### Extend Solar Generating Capacity

Doubles the solar power generating capacity of WestGen Hybrid 25 series generators, allowing further reduction in diesel fuel consumption and further decreasing maintenance and re-fueling events.

Modular, mobile extension of solar capacity does not require larger vehicles or a larger contiguous unshaded area on-site.

- 6.2kW Telescoping solar array
- <4,000 GVWR
- Directly supply power to DC systems (e.g. remote telecom applications)
- Easily retrofit any stationary generator/battery system into a solar hybrid



## Power Trailer Module

### Mobile Power for Smaller Loads

Solar-only solution that completely removes the need for refueling and diesel service and maintenance. Once properly set-up and connected, it's virtually a maintenance-free power supply system

This compact trailer package can be towed with ease by any SUV or pick-up truck, with minor re-positioning possible manually.

- 1380W Dual sided solar array
- 225-1200AMP battery capacity
- 115V / 60Hz/ 10A output
- Heavy duty powder coated construction with stainless steel hardware



## Solar HD Marine Light Tower

### Reliable, Rugged and Virtually Maintenance Free

The WestGen HD Marine Light Tower replaces conventional diesel-powered light towers and is designed for fuel-free, maintenance-free, consistent and reliable operation under harsh field conditions, dramatically reducing operating costs and increasing availability as compared to conventional diesel-powered systems

- 1380W dual-sided solar array
- 30ft light mast
- 65mph sustained wind rating
- 1200 AMP battery capacity
- Designed to operate for three days without any solar charge
- Heavy duty powder coated construction with stainless steel hardware

\*Based on standard configuration



Westgen Mobile Equipment can be easily secured and relocated during

an adverse event, like a hurricane, and be quickly redeployed afterwards.





## HOW IT WORKS

- Mobile Hybrid Generators and stationary Modular Hybrid Microgrids combine the functionality of a solar power system, back-up generator, off-grid prime power generator, and an advanced behind-the-meter microgrid in a single package.
- The system functions as a back-up generator that pays for itself during non-emergency use (through offsetting grid power usage and/or selling excess power to the grid) and uses far less fuel in an emergency.
- It is a solar PV system that does not require permanent roof-top or ground-level installation and serves as a back-up generator during grid outages (whether it's sunny or not).

- It's a battery energy storage system that comes already fully integrated with solar PV, back-up power, and grid interface, offering a microgrid that can be installed and operational within a very short time.
- The system prioritizes renewable power to cover facility needs, while also providing energy storage and an integrated back-up diesel generator/charger, resulting in seamless and reliable, high renewable percentage power supply regardless of the grid condition and availability, weather conditions or fuel supply.
- The mobile/modular design also allows the owner to secure the solar PV component and avoid damage during any potential severe weather events, temporary construction activities, site movement, etc. - continuing to provide power using diesel, battery and (if available) grid power, and then quickly switching to solar hybrid mode with approximately 50-75% renewable power.



## STATIONARY & CUSTOM EQUIPMENT

Due to the modular nature of WestGen products, we can design, supply, and install tailor-made microgrids for a variety of applications. These microgrids reduce power consumption when grid power is available; and provide seamless, highly economical back up power with low environmental impact when the grid is down. In addition, these systems can offer fully decentralized microgrid options for applications that are independent of the grid. Our systems can also be configured to supply emergency power in case of grid failure - without any interruption in power supply, making it ideal for mission-critical applications.

Custom configurations and equipment are available to clients meeting the minimum order requirements.

## SERVICES

WestGen is able to offer technical service and support worldwide. All WestGen equipment is equipped with remote telemetry, gps tracking, geo fencing and other options. Equipment is equipped with remote telemetry packages that allow for the monitoring of state of the system, will identify any developing technical issues before the point of failure, monitor for any system misuse, unauthorized relocation or theft, as well as produce documented reports on avoided fuel usage and avoided emissions.



**Status screen snapshot on left:** System status screen is accessible remotely. This example shows solar production in excess of the load, resulting in charging of the battery; with no grid or generator usage. This particular system is operating in a grid-connected mode and equipped with a Mobile Solar Module that doubles solar generating capacity, producing well over 7 kW at 10 am on a partly cloudy day.



  
**WestGen**  
POWER SOLUTIONS

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