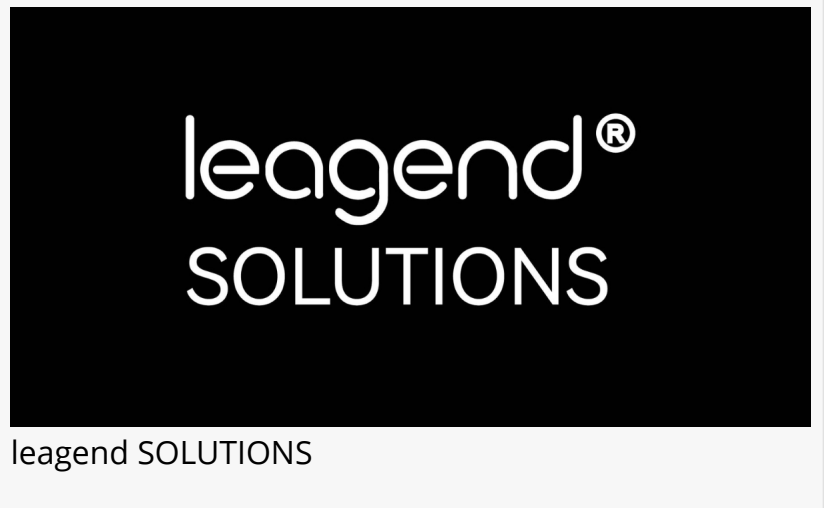


leagend UPS Battery Management Solution Enhances Power Security for Renewable Energy and Critical Infrastructure

As renewable energy and distributed power systems become a vital global energy infrastructure, leagend has launched its UPS battery management solution,

SHENZHEN, GUANGDONG, CHINA, May 8, 2025 /EINPresswire.com/ -- As renewable energy and distributed power systems become an increasingly vital part of global energy infrastructure, leagend has launched its UPS battery management solution,

offering intelligent, real-time monitoring and management for battery backup systems essential to power reliability in both grid-connected and off-grid environments.



“

Our mission is to empower clean energy infrastructure with smarter, safer, and more reliable power management tools.”

Arthur Kingsly

This advanced platform is designed to address one of the most critical challenges in the renewable and clean energy sector: ensuring consistent, uninterrupted power availability in areas where energy storage systems are the backbone of operational continuity. From remote solar farms to off-grid microgrids and data-driven energy centers, battery performance is pivotal. leagend solution delivers an intelligent, scalable, and centralized system for monitoring, analyzing, and managing these vital power

assets.

Smart Power Management for a New Energy Era

The UPS battery management solution offers continuous, real-time tracking of battery parameters including voltage, current, temperature, internal resistance, capacity, state of charge (SoC), and state of health (SoH). The system consolidates all critical battery data from multiple distributed sites into a centralized cloud-based platform, allowing energy operators and

technical teams to oversee and control their backup power systems from anywhere, via web portals and mobile apps.

This is especially valuable for renewable energy storage systems, where the availability of stable backup power is essential to maintaining grid balance and operational reliability during periods of peak demand, generation fluctuations, or grid failure.

Product Director at leagend emphasized the importance of smart battery management in modern energy operations:

“As renewable energy capacity expands globally, ensuring reliable power storage and backup is non-negotiable. Our UPS battery management solution gives operators the data intelligence and remote control they need to optimize performance, reduce risks, and extend battery service life — no matter how remote or complex the installation.”



Advanced Monitoring, Predictive Analytics, and Remote Control

The system features built-in fault alarms, overvoltage, undervoltage, overtemperature, and internal resistance monitoring, ensuring any abnormalities are detected instantly. Real-time alerts are delivered to enable rapid response before faults escalate into operational disruptions.

In renewable energy applications — such as solar, wind, and hybrid storage systems — this means operators can monitor battery conditions in isolated areas without the need for frequent field inspections, reducing maintenance costs and improving operational efficiency.

Additionally, leagend solution offers historical data logging and performance trend analysis, supporting predictive maintenance strategies that help prevent unplanned downtime and optimize asset replacement cycles. This is particularly crucial for off-grid renewable projects and energy storage systems operating in harsh or remote environments.

Empowering Sustainable Energy Operations

Beyond operational benefits, the UPS battery management solution contributes to sustainability goals by improving battery lifespan, reducing unnecessary replacements, and minimizing the risk of hazardous battery failures. By ensuring battery systems operate at peak efficiency, the

platform helps renewable energy projects achieve lower carbon footprints and higher system reliability.

The solution is compatible with lead-acid and lithium-ion batteries, offering flexibility for both new and existing renewable energy systems, industrial UPS setups, telecom base stations, data centers, financial sectors, emergency sectors and large-scale commercial infrastructure.

Looking Ahead

leagend continues to invest in advanced battery management and energy storage solutions designed to meet the evolving demands of the clean energy sector. Future developments will include AI-driven performance prediction, multi-site cloud control, and integrated energy management solutions for hybrid and fully renewable power systems.

“Our mission is to empower clean energy infrastructure with smarter, safer, and more reliable power management tools. With [leagend UPS battery management solution](#), we’re delivering actionable insights and control capabilities to help operators manage renewable power systems with confidence and efficiency.”

[About leagend SOLUTIONS](#)

leagend SOLUTIONS specializes in intelligent power management and battery testing for industrial, telecommunications, transportation, data center and renewable energy sectors. The company is committed to driving operational resilience and sustainability through innovative energy technologies.

Arthur Kingsly

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