

The rapid electrification of vehicles--propelled by the global push for zero-emission mobility, albeit with regional asymmetries--is driving surging demand for high ...

Abstract This paper presents a security-constrained co-planning of transmission line expansion and energy storage with high penetration of wind power. The energy storage can not only ...

In Solar & Energy Storage, it launched its bidirectional GaN ICs - GaN BDS, in early 2025, whose first use case will be in solar microinverters (expected to ramp up in late 2025).

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Guangzhou-based Great Power has announced a CNY 5 billion (\$690 million) investment to build a 10 GWh battery energy storage cell and system manufacturing facility in ...

Gallium nitride (GaN) is a next-generation semiconductor technology that runs up to 20x faster than legacy silicon, and enables up to 3x more power and 3x faster charging in half the size and weight. Navitas ...

The demand for energy-efficient technologies is growing as people seek solutions balancing performance with sustainability. While silicon has long been the dominant material for power electronics, alternatives such as ...

Wide-bandgap (WBG) power devices, such as silicon carbide and gallium nitride semiconductors, are cutting-edge electronic components that have revolutionized the power electronics industry. Unlike traditional silicon ...

In Solar & Energy Storage, it launched its bidirectional GaN ICs - GaN BDS, in early 2025, whose first use case will be in solar microinverters (expected to ramp up in late ...

Bi-directional GaN Substrate is connected to Source separately to minimize back gating effect! How to do substrate clamping for bi-directional GaN Substrate is clamped based on current ...

The global energy storage market is experiencing unprecedented growth, driven by the increasing integration of renewable energy sources into power grids worldwide. This ...

GlobalFoundries (GF) has announced the acquisition of Tagore Technology 's exclusive and well-established Power Gallium Nitride (GaN) intellectual property (IP) portfolio. This high-power density solution is designed ...

The products will be applied in industries such as solar energy storage, new energy vehicles, industrial automation, and 5G high-frequency communication. This investment is expected to ...

When China's State Grid announced the Gan pumped storage project bids last month, industry insiders weren't surprised to see giants like PowerChina and Gezhouba Group throwing their ...

Power Integrations is not just a semiconductor supplier; it is a key player in the decarbonization of global energy systems. With renewable energy investments projected to ...

?: The paper proposed a novel three-phase single stage AC-DC converter for grid energy storage applications. Variable-frequency (VF) and dual-phase-shift (DPS) modulation are ...

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