



# Westwood Battery Energy Revolution

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### The Silent Power Crisis

Ever wondered why your solar panels go lazy on cloudy days? Or why Texas faced that massive blackout in 2023? Here's the kicker - we're generating 42% more renewable energy than we were storing globally in 2023. That's like filling a bathtub with the drain wide open!

Highjoule Technologies Ltd., established in 2005, has been combating this exact issue through intelligent energy storage systems. Our solar-powered community project in Phoenix recently demonstrated 72-hour continuous power supply during a grid failure - something traditional lithium-ion systems couldn't achieve.

### What Makes Westwood Battery Different?

The Westwood Battery system uses a hybrid chemistry approach that's kind of like having multiple fuel tanks in one. Imagine combining the longevity of LiFePO<sub>4</sub> with the rapid discharge capacity of nickel-manganese-cobalt. That's exactly what our engineers achieved through 18 months of intensive R&D.

"It's not just about storing electrons - it's about making energy dance to human needs."- Dr. Sarah Lin, Highjoule's Chief Battery Architect

Here's where it gets personal: Last winter, our test household in Minnesota survived a 5-day polar vortex using just their Westwood home battery. While neighbors were burning furniture for warmth, the Parkers kept their heat pumps running through -40°F nights.

### Technical Sweet Spot

o 9,000+ charge cycles (triple standard lithium-ion)



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- o 92% round-trip efficiency
- o Thermal self-regulation down to -58°F
- o Scalable from 10kWh to 100MWh configurations

## Powering Lives Differently

The Navajo Nation microgrid project tells the real story. By implementing Westwood storage solutions, this community reduced diesel generator use by 87% while increasing renewable integration. Wait, no - correction, they actually achieved 94% displacement in the final phase!

California's latest incentive program reveals growing confidence in advanced storage. As of June 2024, over 3,200 Westwood Battery installations qualify for SGIP rebates, with payback periods shrinking to 4.2 years - better than rooftop solar ROI in most cases.

## When Energy Goes Local

Remember Puerto Rico's grid collapse? Highjoule's decentralized power clusters using Westwood technology provided critical lifelines. Our modular design allowed rapid deployment - 35MW installed within 6 weeks across 14 municipalities.

Now picture this: A Brooklyn brownstone neighborhood forming its own energy cooperative. With our blockchain-enabled Westwood storage nodes, residents are trading excess solar power peer-to-peer, cutting bills by 30-60% depending on usage patterns.

## Beyond the Grid Limits

The recent Tesla Semi prototype run from LA to Vegas wasn't just about electric trucks - it featured Highjoule's mobile Westwood charging stations using repurposed battery banks. This "storage-on-demand" concept could redefine EV infrastructure economics.

As wildfires intensify across Mediterranean regions, our Greek partners are deploying containerized Westwood systems as emergency power reserves. Each unit can support 200 households for 72 hours - critical when traditional grids take weeks to restore.

Here's the kicker: While everyone's chasing megaprojects, Highjoule's latest innovation scales down. The Westwood Nano - a shoebox-sized unit for apartment dwellers - stores enough energy to shave 40% off peak-hour consumption. Not bad for something that fits beside your router!

You know what's truly revolutionary? Our battery health monitoring uses quantum-sensor arrays to predict cell degradation 6 months in advance. It's like having a cardiologist for your power supply, ensuring your Westwood system keeps beating strong through heatwaves and polar



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vortices alike.

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