



2019 Southeast Energy Storage Symposium: Where Innovation Met Southern Charm

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Why This Conference Still Matters for Energy Professionals

Remember when "battery storage" sounded like something you'd buy at Home Depot? The 2019 Southeast Energy Storage Symposium changed that perception faster than a Tesla Powerwall charges during a hurricane watch. Held in Atlanta's Georgia World Congress Center, this event became the launchpad for grid-scale solutions now powering Walmart distribution centers and keeping Disney World's lights flicker-free during summer storms.

The Lightning in the Bottle: Top 3 Symposium Breakthroughs

The Great Zinc-Air Debate: Tesla engineers nearly came to blows with Southern Company reps over flow battery economics during a panel that local journalists dubbed "The Battery Brawl"

Utility-Scale Ice Storage: Duke Energy's "freeze now, cool later" demo had attendees shivering in 90°F humidity - and writing checks

EVs as Grid Assets: Nissan's vehicle-to-grid demo using Leaf batteries kept the convention center's espresso machines running during a simulated blackout

Southern Fried Storage Economics

While California focused on solar pairing, the Southeast Energy Storage Symposium 2019 asked the \$64,000 question: How do you make storage pencil out in regions with \$0.09/kWh electricity? The answer emerged through peach farm metaphors and bourbon-barrel-aged financial models:

Peaking plant replacements that pay off faster than a NASCAR pit crew

Transmission deferment strategies slicker than a Talladega turn

Behind-the-meter solutions with ROI timelines shorter than a SEC football game

Case Study: How Georgia Power Cracked the Code

The utility's "Storage as a Transmission Asset" pilot - first unveiled at the symposium - now provides 80MW of non-wires alternative capacity. Their secret sauce? Pairing Tesla Megapacks with abandoned textile mill sites, creating what engineers lovingly call "Southern-fried BESS sites."

The Humidity Factor: Southeast's Secret Weapon

While other conferences sweated the details, this symposium embraced the region's soggy reality. Morning panels discussed:



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- Corrosion-resistant battery enclosures (tested in Mobile Bay's salt spray)
- Thermal management systems that work harder than AC units in August
- Flood-proof installations that make Noah's Ark look under-engineered

Fun fact: The "Dunk Tank Challenge" had vendors submerging their storage systems in a fish fryer-turned-test chamber. The winner's design later became the basis for FEMA's flood zone battery specifications.

Policy Gumbo: Stirring Up Regulatory Changes

Behind the beignets and bourbon tastings, serious regulatory work simmered. The symposium's closed-door sessions birthed:

- Revised interconnection standards now adopted across 14 states
- Peaker plant emission rules that actually account for storage alternatives
- Storm hardening requirements that mandate 72-hour storage at critical facilities

From Symposium to Reality: 5 Projects Born in Atlanta

- Florida's "Solar + Storage Hurricane Corridor" (inspired by a cocktail napkin sketch)
- Tennessee Valley Authority's 200MW "Battery Valley" initiative
- Dominion Energy's battery-powered shrimp boat charging stations
- Georgia's first solar+storage microgrid for peanut processing plants
- Alabama's pumped hydro-storage hybrid using abandoned coal mines

When Chicken Wings Meet Kilowatt-Hours

The most talked-about innovation didn't come from a lab - it came from the Waffle House test kitchen. Engineers realized the restaurant chain's legendary disaster response could teach utilities about resilient energy systems. Today, 23% of Southeast storage projects include "Waffle House Index" redundancy metrics.

The Lithium-Ion vs. Flow Battery Showdown

No symposium recap would be complete without mentioning the storage technology cage match that had attendees placing bets like it was the Kentucky Derby. Key takeaways:

- Lithium-ion's cost curve dropped faster than a Florida thunderstorm



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Flow batteries found their niche in wastewater treatment plants

Hybrid systems emerged as the Swiss Army knives of storage

As the bourbon flowed and business cards exchanged hands, one truth became clear: The Southeast wasn't just adopting energy storage - it was reinventing it with sweet tea ingenuity and hurricane-hardened pragmatism.

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