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### Why Texas Roads Are Getting a High-Voltage Makeover

Ever tried charging your EV during a Texas heatwave? Traditional lithium-ion batteries sweat faster than a cowboy at a chili cook-off when temperatures hit triple digits. That's where LG Energy Solution's RESU solid-state storage rides in like a tech-savvy sheriff, bringing game-changing thermal stability to EV charging stations across the Lone Star State.

### The Charging Dilemma: More EVs, Bigger Headaches

Texas saw 143% EV registration growth since 2022 (Y'all bought 96,000 electric trucks last year!)

Average charge time during peak hours now exceeds 45 minutes

Grid strain costs utility companies \$18M in infrastructure upgrades last quarter

Enter LG's 46120 solid-state cells - imagine a battery that laughs at 130°F asphalt while delivering 350kW charging speeds. These bad boys use phase-change thermal goo that works like liquid body armor against Texas-sized temperatures.

### How Solid-State Storage Outshines Old-School Tech

#### Safety First: No More Battery Meltdowns

Remember the 2023 Dallas charging station fire? Traditional batteries expand like overfed armadillos in heat. LG's solid-state modules maintain 99.7% capacity retention through 2,000 charge cycles according to UL certifications - that's enough juice to drive from El Paso to Houston 300 times.

### Space-Saving Superpowers

40% smaller footprint than current Tesla Megapacks

Stackable design lets stations add capacity like LEGO blocks

Integrated cooling eliminates external chillers (Goodbye, water-guzzling systems!)

### Real-World Juice: Case Studies From the Frontlines

Buc-ee's converted their Luling location into an EV oasis using RESU storage:

68 charging stalls powered by solar + storage

600kWh system handles 1,200 daily charges

Peak demand charges reduced by 62%



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"Our beaver mascot never worked this hard," jokes facility manager Hank Wilson. "The system's so efficient, we're selling surplus power back to the grid during rodeo season."

## The Battery Arms Race Heats Up

While LG's cooking with solid-state innovation, competitors aren't just twiddling their spurs:

Tesla's 4680 cells now feature dry electrode tech

CATL's Shenxing Plus claims 400km range from 10-minute charges

Startup Our Next Energy demoed 752-mile single-charge range

But here's the kicker - LG's Arizona gigafactory can churn out enough 46120 cells annually to power every EV in Texas... twice. With IRA tax credits sweetening the deal, they're basically printing money while printing batteries.

## Wireless Charging? Hold My Sweet Tea

Rumor has it LG's testing inductive charging pads that could turn parking spots into power sources. Imagine fueling up while grabbing kolaches at the Czech Stop - the ultimate Texas multitasking.

As oil derricks fade into the sunset, one thing's clear: The future of Texas energy wears boots made of solid-state electrolytes. And it's coming to a charging station near you faster than a jackrabbit on a date night.

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