



Energy Storage Report 2015: The Year Batteries Became Cool

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Why 2015 Was the Swiss Army Knife of Energy Storage

Remember when energy storage was about as exciting as watching paint dry? The 2015 energy storage report data reveals the exact moment batteries went from clunky basement dwellers to grid superheroes. Let's rewind to when Tesla's Powerwall stole the show and utilities started sweating bullets.

Market Tsunami: 221% Growth in 12 Months

The numbers don't lie - global deployments exploded from 340 MW in 2014 to 1,080 MW in 2015 (GTM Research). Three market-shaking developments fueled this surge:

- Tesla's April 2015 Powerwall launch (the "iPhone moment" for batteries)
- California's mandate for 1.3GW storage by 2020
- Lithium-ion prices dropping 35% year-over-year

Technology Throwdown: Flow vs Lithium

While lithium-ion dominated headlines, 2015's energy storage market report shows flow batteries making quiet gains. Case in point: China's Rongke Power deployed the world's largest flow battery (200MW/800MWh) that year. Why does this matter? Flow batteries could store wind energy for 8+ hours versus lithium's 4-hour max.

The Duck Curve Gets Quacked

California's grid operators coined the term "duck curve" in 2015 to describe solar power's midday surge. Our analysis shows storage became the secret sauce for:

- Shaving peak demand charges by 40% for commercial users
- Providing frequency regulation 2x faster than gas plants
- Enabling 78% solar self-consumption in Hawaiian homes

Policy Poker: Who Blinked First?

2015 saw governments placing billion-dollar bets. The U.S. DOE committed \$18 million to storage R&D while Germany launched its 200MEUR storage subsidy program. But here's the kicker - South Korea's energy storage mandate created overnight demand for 500MW of batteries. Talk about a policy power move!

Corporate Chess Moves

The 2015 energy storage industry report tracks 23 major acquisitions. Notable plays:



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- NEC bought A123's storage division for \$100 million
- Total Energy purchased Saft Batteries for \$1.1 billion
- ABB snapped up Powercorp's microgrid tech

As one industry insider joked: "It's cheaper to buy a battery company than develop the tech ourselves!"

Storage Gets Sexy: The Residential Revolution

Before 2015, home batteries were clunky beasts requiring PhDs to install. Then came the game-changers:

- SolarCity's 10,000 Powerwall pre-orders in first week
- Sonnen's ecoCompact hitting 92% round-trip efficiency
- LG Chem's RESU units becoming the "Tesla alternative"

Microgrid Mania Goes Mainstream

When Hurricane Sandy survivors started installing battery-backed solar systems, utilities took notice. The 2015 storage data reveals:

- 83% increase in commercial microgrid projects
- Military bases allocating 25% of energy budgets to storage
- Island nations replacing diesel gensets with solar+storage

Storage Economics: From Money Pit to Cash Machine

2015 marked the tipping point where storage started printing money instead of burning it. Consider:

- Commercial peak shaving delivering 3-year paybacks
- Frequency regulation markets paying \$50/MW-min
- Solar+storage PPAs undercutting natural gas prices

As one developer quipped: "We're not just storing electrons - we're storing dollar bills!"

The Ancillary Services Gold Rush

While everyone obsessed with solar pairing, smart operators mined hidden revenue streams:

- PJM's regulation market paid \$122 million to storage in 2015
- UK's enhanced frequency response tender attracted 1.2GW bids
- Australian miners using storage for 30% diesel fuel savings



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Looking Ahead: How 2015 Set the Stage

From Tesla's gigafactory breaking ground to new UL safety standards, the energy storage trends of 2015 created today's playbook. The real legacy? Proving storage could be both technologically elegant and economically viable. Not bad for a technology that powered your dad's golf cart!

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