

The Silent Thief: Comparing Self-Discharge Rates Across Energy Storage Technologies

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Ever left your smartphone in a drawer for a month only to find it deader than disco? That's self-discharge in action - the sneaky phenomenon draining your energy storage systems even when they're supposedly "resting." In this deep dive, we'll compare self-discharge rates across various energy storage technologies, revealing which systems hold their charge like Fort Knox and which leak power like spaghetti strainers.

Self-Discharge Showdown: Storage Technologies Face Off

Let's cut through the marketing fluff and examine real-world numbers:

Lithium-ion Batteries: 1-5% per month (Tesla Powerwall loses about 2% monthly)

Lead-Acid Batteries: 4-6% per week (That's why your car battery dies after vacation)

Nickel-Metal Hydride: 10-30% monthly (Remember those AA batteries that never lasted?)

Supercapacitors: 10-20% per day (Great for quick bursts, terrible for long storage)

Flow Batteries:

Web: <https://www.sphoryzont.edu.pl>