



# PSP Energy Storage: The Giant Battery Hidden in Plain Sight

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Ever wonder how we can store the equivalent of a small lake's worth of energy? Meet PSP energy storage - the unsung hero of grid stability that's been quietly powering our world since 1907. While lithium-ion batteries hog the spotlight, this 116-year-old technology currently stores 94% of the world's energy storage capacity. Let's dive into why utilities are still betting big on pumped storage hydropower in our renewable energy revolution.

### How PSP Energy Storage Works (And Why It's Like a Water Elevator)

Imagine two swimming pools stacked vertically. During off-peak hours, PSP plants:

- Pump water uphill using cheap electricity
- Store it in an upper reservoir (nature's battery)
- Release it through turbines during peak demand

The magic happens in the 80% round-trip efficiency - better than your smartphone charger! Recent projects like China's Fengning Plant (3.6GW capacity) can power 3 million homes for 7 hours straight.

### The Grid Stabilizer You Never Knew You Needed

While wind turbines nap during calm days and solar panels take nights off, PSP energy storage plays DJ for the grid:

- Responds to demand spikes in

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