

Ess iron battery



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ESS Iron Flow Batteries: Powering Clean, Safe

Most recently, ESS signed an initial agreement with LEAG, a major German energy provider, to build a 50 MW / 500 MWh iron flow battery system

ESS uses iron flow battery deployments to adapt to

The chemistry of ESS' flow battery electrolyte is essentially salt water and iron. The company says it is transparent about this chemistry



What Is ESS Iron Flow Battery?

ESS Iron Flow Battery is a non-lithium electrochemical energy storage system utilizing iron, salt, and water as electrolytes, designed for 4-12 hour duration applications in commercial and utility-scale

Products

- High Capacity: 2000Wh of energy storage for reliable power supply. Long Life: Over 6000 cycle life, maintaining 70% capacity for years. Advanced Chemistry:



ESS Inc: An Enduring Value Proposition



ESS Iron Flow Battery Technology During discharging iron dissolves back into solution
Passive design proton pump continuously refreshes electrolyte in closed-loop system

[SRP and ESS Announce New 50 MWh Long Duration Energy](#)

Wilsonville, Ore.- October 9, 2025 - Salt River Project (SRP), a not-for-profit public power utility serving the greater Phoenix metropolitan area, and ESS (NYSE:GWH), a leading manufacturer of iron flow



[ESS Flow Battery Demonstration , UC San Diego Energy Research](#)

Unlike conventional lithium-ion batteries that rely on more expensive, hazard-managed materials, ESS's iron-flow batteries use iron, salt, and water, which are widely available and can offer a safer,

Flexible, Customizable Solutions

ESS Tech, Inc. (NYSE: GWH) is the leading manufacturer of long-duration iron flow energy storage solutions. ESS was established in 2011 with a mission to accelerate decarbonization safely and



[Batteries Powered by Iron and Water Will Transform the Grid](#)

Watch the latest videos from ESS Tech, Inc. to learn how batteries powered by iron and water will transform the grid.

Long-duration Energy Storage , ESS, Inc.

Curious about ESS's innovative iron flow technology and its capabilities? Our new Energy Base product line removes electrolyte volume constraints, allowing for



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Energy Warehouse(R) , ESS, Inc.

ESS was established in 2011 with a mission to accelerate decarbonization safely and sustainably through longer lasting energy storage. Using easy-to-source iron, salt, and water, ESS' iron flow



Iron Flow Chemistry

ESS employs iron flow chemistry reducing supply chain environmental impacts and reducing the battery's lifecycle greenhouse gas footprint.

[Honeywell invests \\$27.5M in ESS to advance iron-flow](#)

ESS' iron flow battery chemistry can provide up to 12 hours of





ESS IRON FLOW BATTERIES

ESS Inc. designs, builds and deploys the most environmentally sustainable, lowest-cost, iron flow batteries for long-duration commercial and utility-scale energy storage applications requiring from 4

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