

# Ess battery iron flow



## Overview

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Our iron flow batteries work by circulating liquid electrolytes - made of iron, salt, and water - to charge and discharge electrons, providing up to 12 hours of storage capacity. (ESS) has developed, tested, validated, and commercialized iron flow technology.

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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.



### [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.



### Energy Center(TM)

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### [Iron Flow Batteries: An Ethical Energy Storage Solution](#)

The large-scale impact on crucial natural resources threatens the very livelihood and survival of many Indigenous communities. Iron Flow Batteries: The Ethical Alternative ESS' long

**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



**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

[ESS' Australian Partner Raises AU\\$65M in Public and Private Funds](#)

Investment will support achievement of Energy Storage Industries - Asia Pacific's 400MW annual iron flow battery production target using ESS technology Wilsonville, Ore.,



**Long-duration Energy Storage , ESS, Inc.**

Leading the charge ESS continues to lead the industry with a commitment to innovation, research and development that underpins every iron flow battery project. These awards underscore our

**ESS IRON FLOW BATTERIES**

ESS SOLUTIONS SIMPLIFY INSTALLATION AND OPERATION ESS batteries are comprised of earth-abundant iron, salt and water, not hazardous chemicals or costly rare-earth metals, making them



## Contact Us

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For catalog requests, pricing, or partnerships, please visit:  
<https://peyronies.us>